
```
name: <unnamed>
log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/piq_timing_max_all_det.smcl
log type: smcl
opened on: 9 May 2025, 13:21:40
- capture ! rm ./output/stepwise_regressions/`depvar'_`type'.pdf
= capture ! rm ./output/stepwise_regressions/piq_timing_max_all_det.pdf
- di "*****"
> ****
*****  
> **
- di "Outcomes of bi-directional stepwise regressions with `depvar' with rul
> e fixed effects"
= di "Outcomes of bi-directional stepwise regressions with piq_timing_max wi
> th rule fixed effects"
Outcomes of bi-directional stepwise regressions with piq_timing_max with rule
> fixed effects
- di "Independent Variable set: `type'"
= di "Independent Variable set: all_det"
Independent Variable set: all_det
- di "*****"  
> ****
*****  
> **
- ${reg_`depvar'_`type'}
= nbreg piq_timing_max cb_authors_ext vint_late estimated stky_pr_rotemb
> erg stky_pr_calvo open wlth if piq_timing_max<60 , vce(r)


---


> _____ begin nbre
> g _____
- if _by() {
  local BY `by `byvars``_byrc0':'
}
- `BY' _vce_parserun nbreg, mark(Exposure OFFset CLuster) : `0'
= _vce_parserun nbreg, mark(Exposure OFFset CLuster) : piq_timing_max
> cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open
> wlth if piq_timing_max<60 , vce(r)


---


> _____ begin _vce_parseru
> n _____
- version 9
- local version : di "version " string(_caller()) ":""
- local bycall = _by()
- _on_colon_parse `0'
= _on_colon_parse nbreg, mark(Exposure OFFset CLuster) : piq_timing_max
```

```

>      cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo   o
> open wlth  if piq_timing_max<60 , vce(r)
> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before """
    - sreturn local after """
    - gettoken before after : 0, parse(":") bind match(par) quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"`
    }
    - if `"`before""' == ":" {
    = if `nbreg, mark(Exposure OFFset CLuster)"' == ":" {
        sreturn local after `"`after""'
        exit
    }
    - while `"`COLON""' != ":" & `"`after""' != "" {
        = while `""' != ":" & `":` piq_timing_max      cb_authors_ext vint_late e
> stimated stky_pr_rotemberg stky_pr_calvo      open wlth  if piq_timing_max<6
> 0 , vce(r)"' != "" {
        - gettoken COLON after : after, parse(":") bind match(par) quotes
        - if "`par'" != "" {
        = if "" != "" {
            local before `before' (`COLON')
            local COLON
        }
        - else if `"`COLON""' != ":" {
        = else if `":'" != ":" {
            local before `"`before' `COLON""'
            local COLON
        }
        - }
        - while `"`COLON""' != ":" & `"`after""' != "" {
            = while `":'" != ":" & `":` piq_timing_max      cb_authors_ext vint_late e
> stimated stky_pr_rotemberg stky_pr_calvo      open wlth  if piq_timing_max<6
> 0 , vce(r)"' != "" {
            gettoken COLON after : after, parse(":") bind match(par) quotes
            if "`par'" != "" {
                local before `before' (`COLON')
                local COLON
            }
            else if `"`COLON""' != ":" {
                local before `"`before' `COLON""'
                local COLON
            }
        }
    }
}

```

```

        }
    }
- if `"`COLON`"" != ":" {
= if `":`" != ":" {
    di as err `'' found where `:' expected"
    exit 198
}
- sreturn local before `"`before`""
= sreturn local before `nbreg, mark(Exposure OFFset CLuster) `"
- sreturn local after `"`after`""
= sreturn local after `piq_timing_max      cb_authors_ext vint_late es
> timated stky_pr_rotemberg stky_pr_calvo      open wlth  if piq_timing_max<60
> , vce(r)`"



---


> _____ end _on_colon_pars
> e _____
- local ZERO `"`s(before)`""
= local ZERO `nbreg, mark(Exposure OFFset CLuster) `"
- local 0 `"`s(after)`""
= local 0 `piq_timing_max      cb_authors_ext vint_late estimated stky_
> pr_rotemberg stky_pr_calvo      open wlth  if piq_timing_max<60 , vce(r)`"
    - quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(stri
> ng asis) VCE1(string asis) LRMODEL * ]
        - if `"`vce`"" == "" {
        = if `"`r`"" == "" {
            MYRESULT
            exit
        }
- local AFTER `"`0`""
= local AFTER `piq_timing_max      cb_authors_ext vint_late estimated s
> tky_pr_rotemberg stky_pr_calvo      open wlth  if piq_timing_max<60 , vce(r)`"
> '
    - local 0 `"`ZERO`""
= local 0 `nbreg, mark(Exposure OFFset CLuster) `"
    - syntax name(name=caller id="calling command name") [, WTYPES(string) N
> 0B00Tstrap NOJACKknife NOOTHERvce NOTEST PANELdata STdata bootopts(string as
> is) jkopts(string asis) robustok multivce REQUIREDopts(namelist) NOEQLIST EQ
> opts(passthru) EQARGopts(passthru) noNEEDVARLIST COMMONopts(namelist) MARKop
> ts(passthru) SMARKopts(passthru) RMCOLLOpts(passthru) RMDCOLLOpts(passthru)
> NUMDEPvars(passthru) NEEDEQUAL ALLDEPSMISSING PARtheses UNPARFIRSTeq OR EQ
> UAL UNEQUALFIRSTeq IGNORENOCONS ]
        - if `"`requiredopts`"" != "" {
        = if `""` != "" {
            tempfile reqopts
            `reqopts' = ._optlist.new
            foreach req of local requiredopts {

```

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. `reqopts'.addopt `req', passthru
}
}
}
- if "`wtypes'" == "" {
= if "" == "" {
- local wtypes fw aw pw iw
- }
- if "`paneldata'" != "" {
= if "" != "" {
    local panelopt "CLuster(varname) I(varname)"
}
- if "`stdata'" != "" {
= if "" != "" {
    local stopt "CLuster(varname) SHared(varname)"
}
- local typelist svy jackknife bootstrap
- if "`stdata'" == "" & replay() & ! _by() {
= if "" == "" & replay() & ! _by() {
    local ecmd `e(cmd)'
    local ecmdname `e(cmdname)'
    if `"`ecmd'"' == "" {
        error 301
    }
    else if `"`ecmd'"' != `"`caller'"' & `"`ecmdname'"' == `"`caller'"' & `:li
> st ecmd in typelist' {
    `ecmd' `0'
    MYRESULT exit
}
MYRESULT
exit
}
- gettoken svy typelist : typelist
- if "`reqopts'" != "" {
= if "" != "" {
    local REQOPTLIST `.``reqopts'.dumpoptions'"
    local REQOPTNAMES `.``reqopts'.dumpnames'"
}
- local 0 `""`AFTER"""
= local 0 `piq_timing_max cb_authors_ext vint_late estimated stky_
> pr_rotemberg stky_pr_calvo open wlth if piq_timing_max<60 , vce(r)"""
    - quietly syntax [anything(equalok)] [if/] [in] [`wtypes'] [, VCE(string
> asis) VCE1(string asis) Robust NODOTS `panelopt' `stopt' `REQOPTLIST' * ]
        = quietly syntax [anything(equalok)] [if/] [in] [fw aw pw iw] [, VCE(str
> ing asis) VCE1(string asis) Robust NODOTS * ]
        - if `:list vce === vce1' {
        = if 0 {

```

```

local vce1
}
- if `"`vce1`"" != "" & "`multivce`"" == "" {
= if `""` != "" & `""` == "" {
    di as err "option vce() specified multiple times"
    exit 198
}
- if `"`robust`"" != "" & "`robustok`"" == "" {
= if `""` != "" & `""` == "" {
    di as err "options vce() and robust may not be combined"
    exit 198
}
- if `"`if`"" != "" {
= if `"`piq_timing_max<60`"" != "" {
- local if `if(``if'`)"
= local if `if(piq_timing_max<60`)"
- }
- if `"`robust`"" != "" {
= if `""` != "" {
    local options `"`robust` `options`"""
}
- if `"`weight`"" != "" {
= if `""` != "" {
    local wgt [`weight` `exp`]
}
- if `"`options`"" != "" {
= if `""` != "" {
    local opts `":list retok options`"""
}
- gettoken uvcetype vceopts : vce, parse(" ,")
- capture unabVCEtype, `uvcetype'
= capture unabVCEtype, r

```

```

> _____ begin _vce_parserun.unabVCEtyp
> e _____
- syntax [, BOOTstrap BStrap JACKknife JACKNife JKknife Robust * ]
- if `bstrap` != "" {
= if `""` != "" {
    local bootstrap bootstrap
}
- if `jkknife` != "" | `jackknife` != "" {
= if `""` != "" | `""` != "" {
    local jackknife jackknife
}
- local vcetype `"`jackknife` `bootstrap` `robust` `options`"""
= local vcetype `"` robust "

```

```

- sreturn local vcetype `":list retok vcetype'"
= sreturn local vcetype `"robust"'

> _____ end _vce_parserun.unabVCETyp
> e _____
- if c(rc) {
  di as err "invalid vce() option"
  exit c(rc)
}
- local vcetype `s(vcetype)'
= local vcetype robust
- if "`lrmodel'"!="`" {
= if ""!=`" {
  _check_lrmodel `caller', vcetype(`vcetype')
}
- if `"`vce1'"' != "" & `"`multivce'"' != "" {
= if `""' != "" & `"' != "" {
  gettoken uvce1type vcelopts : vce1, parse(",")'
  capture unabVCEType, `uvce1type'
  if c(rc) {
    di as err "invalid vce() option"
    exit c(rc)
  }
  local vce1type `s(vcetype)'
  if `":list vce1type in typelist' | `":list vcetype in typelist' {
    di as err "options vce(`vce') and vce(`vce1') cannot be combined"
    exit 198
  }
  MYRESULT
  exit
}
- if _caller() >= 17 {
- if `"`vcetype'"' == "cluster" {
= if "robust" == "cluster" {
  gettoken vceopts vcelopts: vceopts, parse(",")
  if `":list sizeof vceopts' > 1 {
    local typelist `typelist' cluster_multiway"
    local vcetype cluster_multiway
    if `":list sizeof vcelopts' > 0 {
      gettoken comma vcelopts: vcelopts, parse(",")
      local vcelopts: list retokenize vcelopts
      di as err "{p}VCE option " "{bf:`vcelopts'} not allowed{p_end}"
      exit 198
    }
    if ("`cluster'"=="") & ("`noeqlist'"=="") {
      if "`caller'" == "regress" {

```

```

Noc2Noconstant `opts'
local opts `""`$opts"""
}
local opts `""`$opts' cluster(`vceopts')"""
}
}
}
-
{
- if ! `:list vcetype in typelist' {
= if ! 0 {
- if "`vcetype'" != "robust" & "`noothervce'" == "noothervce" {
= if "robust" != "robust" & "" == "noothervce" {
    di as err "option vce(`vcetype') not allowed"
    exit 198
}
-
MYRESULT


---


> _____ begin _vce_parserun.MYRESUL
> T _____
- args exit
- sreturn local exit `""`exit"""
= sreturn local exit `"""


---


> _____ end _vce_parserun.MYRESUL
> T _____
- exit


---


> _____ end _vce_parseru
> n _____
- if "`$exit'" != "" {
= if "" != "" {
    version 10: ereturn local cmdline `"nbreg `0"'
    exit
}
- version 6, missing
- local version : di "version " string(_caller()) ":""
- if replay() {
    if "`e(cmd)'" != "nbreg" { error 301 }
    if _by() { error 190 }
    global S_1 = e(chi2_c)
    Display `0'
    error `e(rc)'
    exit
}
- `version' `BY' Estimate `0'
= version 18: Estimate piq_timing_max cb_authors_ext vint_late estimat

```

```

> ed stky_pr_rotemberg stky_pr_calvo      open wlth  if piq_timing_max<60 , vc
> e(r)
> _____ begin nbreg.Estimat
> e _____
- local vppoi : di "version " string(_caller()) ", missing:"
- if _caller() >= 11 {
- local vv : di "version " string(_caller()) ":""
- local mm e2
- local negh negh
- }
- else {
    local vv "version 8.1:"
    local mm d2
}
- version 6, missing
- local awopt = cond(_caller()<7, "aw", "")
- syntax varlist(numeric fv ts) [fw `awopt' pw iw] [if] [in] [, IRR FROM
> (string) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeric
> ts) noCONstant Robust CLuster(varname) SCore(string) NOL0g L0g noDISPLAY noL
> Rtest Dispersion(string) CRITTYPE(passthru) VCE(passthru) moptobj(passthru)
> * ]
    = syntax varlist(numeric fv ts) [fw pw iw] [if] [in] [, IRR FROM(string
> ) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeric ts) noC
> ONstant Robust CLuster(varname) SCore(string) NOL0g L0g noDISPLAY noLRtest D
> ispersion(string) CRITTYPE(passthru) VCE(passthru) moptobj(passthru) * ]
        - local fvops = "`$fvops'" == "true" | _caller() >= 11
        = local fvops = "" == "true" | _caller() >= 11
        - if _by() {
            _byoptnotallowed score() `score'
        }
        - _get_diopts diopts options, `options'
        = _get_diopts diopts options,
> _____ begin _get_diopt
> s _____
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options,
> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevels

```

```

> NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells NO
> OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sfor
> mat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAPON(
> string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBREV
> ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels A
> LLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells
> EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat
> (string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passth
> ru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passth
> ru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {
        local ++n

```

```

        gettokent item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts'"' != "" {
= while `""' != "" {
    local ++n
    gettokent item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts'"' != "" {
= while `""' != "" {
    local ++n
    gettokent item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
```

```

- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``cnsreport' `fullcnsreport''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``coeflegend' `selegend''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```

> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  -----

```

```

> ----- end opts_exclusiv
> e -----
  - opts_exclusive "`noci`nopvalues"
  = opts_exclusive " "
  -----

```

```

> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  -----

```

```

> ----- end opts_exclusiv
> e -----
  - local K : list sizeof namelist
  - gettoken c_diopts c_opts : namelist
  - opts_exclusive "`coding`compare"
  = opts_exclusive " "
  -----

```

```

> ----- begin opts_exclusiv
> e -----
  - version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `"$`opts`$`" != "" {
= while `"$`" != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fvlabel `fvlabel` `nofvlabel'
= local fvlabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels`" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells`" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted`" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }

```

```

- if ``lstretch'' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ````cformat'''
    local cformat ```cformat(`cformat')'''
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat'''
    local sformat ```sformat(`sformat')'''
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat'''
    local pformat ```pformat(`pformat')'''
}
-
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
-
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
  - capture syntax [, WOrd WIdth]
  - if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
  }
  - opts_exclusive ``word' `width'" fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts'"' != ""' {
= while '""' != ""' {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
= if 0 < 2 {
  - exit

```

```

> _____ end opts_exclusiv
> e _____
  - local fvrapon `word' `width'
= local fvrapon
  - if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
  }

```

```

> _____ end _get_diopts.Wrapo
> n _____
  - if ``fvwrap'"' != ""' {
= if ""' != ""' {
    FVWrap, `fvwrap'
  }
  - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwr

```

```

> ap' `fwrapon` `fvlable` `noci` `nopvalues` `markdown` `cotype` `abbrev`
= c_local diopts
- if `K` == 2 {
= if 2 == 2 {
- c_local `c_opts` `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1` `""`diopts"""
= c_local diopts `"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevels
> NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells NO
> OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sfor
> mat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAPON(
> string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBREV
> ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels A
> LLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells
> EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat
> (string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passth
> ru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passth
> ru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels` `noallbaselevels`"
= opts_exclusive " "

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts'"' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts'"' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}

```

```
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---

>> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``cnsreport' `fullcnsreport''  
= opts_exclusive ""  


---

> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while `""`opts""' != "" {  
= while `""' != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---

>> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``coeflegend' `selegend''  
= opts_exclusive ""  


---

> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while `""`opts""' != "" {  
= while `""' != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---


```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``noci' `nopvalues''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts""' != "" {
  = while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - local K : list sizeof namelist
  - gettoken c_diopts c_opts : namelist
  - opts_exclusive ``coding' `compare''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts""' != "" {
  = while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____

```

```
- opts_exclusive ``versus' `compare''"
= opts_exclusive " "

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
```

```

- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat `cformat(`cformat')'
}

```

```

}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat'''
    local sformat ```sformat(`sformat')'''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat'''
    local pformat ```pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```
> _____ begin _get_diopts.Wrapo
> n _____
```

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```
> _____ begin opts_exclusiv
> e _____
```

```
      - version 8.2
```

```

    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n` opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if ""`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fwr
> ap' `fwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""`options""'
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95

```

```

> _____ end _get_diopts.GetDiopt
> s _____
- if `"`name2`"" == "" {
= if `"`options`" == "" {
  GetDiopts DUPs, `options'
}
- else {
- GetDiopts DUPs options, `options'
= GetDiopts DUPs options,
_____
> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevels
> NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells NO
> OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sfor
> mat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAPON(
> string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBREV
> ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels A
> LLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells
> EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat
> (string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passth
> ru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passth
> ru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____

```

```
- opts_exclusive ``allbaselevels' `nobaselevels''"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
```

```
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while `""`opts"" != "" {  
= while `""` != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``fvlable' `nofvlabel''  
= opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while `""`opts"" != "" {  
= while `""` != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``omitted' `noomitted''  
= opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'
```

```

= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {

```

```

    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if `0' < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `f ylabel' `nof ylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ``allbaselevels``baselevels'' == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
```

```

- }
- if ``emptycells'' == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if ``omitted'' == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if ``lstretch'' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `"cformat(`cformat')"'
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `"sformat(`sformat')"'
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
}

```

```

sreturn local pformat `""`pformat"""
local pformat `"$pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != ""' {
= while `""' != ""' {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {

```

```

= if 0 {
  c_local fwrapon fwrapon(`fwrapon')
}

> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fwr
> ap' `fwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
= c_local DUPS
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name2' `""`options"""
= c_local options `"""
- }
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if `""`DUPS"" != "" {
= if `""' != "" {
  if (strpos(`""`DUPS""", "(")) {
    gettoken DUPS : DUPS, parse("(")
    local DUPS `""`DUPS'()"'
  }
  di as err "duplicate {bf:`DUPS'} option not allowed"
  exit 198
}
- sreturn clear

```

```

    - foreach sname of local snames {
    - sreturn local `sname' = `""$_`sname""'
    = sreturn local level = '"95"'
    - }



---


> _____ end _get_diopt
> s _____
    - mlopts mlopts, `options' `log' `nolog'
    = mlopts mlopts,


---


> _____ begin mlopt
> s _____
    - version 8.0
        - local maxoptlist MLOPTs(string) TRace TRACEDiffs GRADient HESSian SH
> OWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance(rea
> l -1) NONRTOLerance SHOWNRtolerance SHOWTOLerance NRTOLerance(real -1) QTOLe
> rance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTEs COLline
> ar TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCONCAV
> E(passthru) USEVIEWS NOL0g L0g nrderiv
        - syntax namelist(id="macro names" min=1 max=2) [, `maxoptlist' * ]
        = syntax namelist(id="macro names" min=1 max=2) [, MLOPTs(string) TRac
> e TRACEDiffs GRADient HESSian SHOWSTEP ITERate(int -1) TOLerance(real -1) LT
> OLerance(real -1) GTOLerance(real -1) NONRTOLerance SHOWNRtolerance SHOWTOLe
> rance NRTOLerance(real -1) QTOLerance(real -1) DIFFicult HALFSTEPonly CONSTr
> aints(string) noCNSNOTEs COLlinear TECHnique(passthru) VCE(passthru) DOTS de
> psilon(passthru) SHOWH NOTCONCAVE(passthru) USEVIEWS NOL0g L0g nrderiv * ]
        - gettokendest rest : namelist
        - if "`rest'" == "" {
        = if "" == "" {
            - syntax namelist [, `maxoptlist' ]
            = syntax namelist [, MLOPTs(string) TRace TRACEDiffs GRADient HESSian
> SHOWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance(r
> eal -1) NONRTOLerance SHOWNRtolerance SHOWTOLerance NRTOLerance(real -1) QT0
> Lerance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTEs COLli
> near TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCONC
> AVE(passthru) USEVIEWS NOL0g L0g nrderiv ]
        - }
        - local mlopts `mlopts' `trace' `tracediffs' `gradient' `hessian' `sho
> wstep' `difficult' `halfsteponly' `nonrtolerance' `shownrtolerance' `showtol
> erance' `dots' `depsilon' `showh' `notconcave' `useviews' `log' `nolog' `nrd
> eriv'
        = local mlopts
        - if `tolerance' != -1 {
        = if -1 != -1 {
            local tol "tolerance(`tolerance')"
        }

```

```

- if `ltolerance' != -1 {
= if -1 != -1 {
    local ltol "ltolerance(`ltolerance')"
}
- if `gtolerance' != -1 {
= if -1 != -1 {
    local gtol "gtolerance(`gtolerance')"
}
- if `nrtolerance' != -1 {
= if -1 != -1 {
    local nrtol "nrtolerance(`nrtolerance')"
}
- if `qtolerance' != -1 {
= if -1 != -1 {
    local qtol "qtolerance(`qtolerance')"
}
- if `iterate' != -1 {
= if -1 != -1 {
    local iter "iterate(`iterate')"
}
- sreturn clear
- if "`technique``vce'" != "" {
= if "" != "" {
    ml_technique, `technique' `vce' nodefault
    if "`s(technique)'" != "" {
        local technique "technique(`s(technique))"
    }
    if "`s(vce)'" != "" {
        local vce "`s(vceopt)"
    }
    sreturn local technique "`technique'"
    sreturn local vce "`vce'"
}
- if "`constraints'" != "" {
= if "" != "" {
    capture confirm name `constraints'
    if _rc {
        CheckClist constraints , constraints(`constraints')
    }
    else {
        CheckCmat `constraints'
    }
    local const "constraints(`constraints')"
    sreturn local constraints "`constraints'"
}
- sreturn local collinear "`collinear'"

```

```

    = sreturn local collinear ""
    - c_local `dest' `mlopts' `tol' `ltol' `gtol' `nrtol' `iter' `const' `
> cnsnotes` `collinear` `technique` `vce` `qtol'
    = c_local mlopts
    - if "`rest'" != "" {
    = if "" != "" {
        c_local `rest' `options'"
    }



---


> _____ end mlopt
> s _____
    - local coll `s(collinear)'
    = local coll
    - local cns `s(constraints)'
    = local cns
    - local mlopts `mlopts' `crittype'
    = local mlopts
    - Dispers , `dispers'
    = Dispers ,


---


> _____ begin nbreg.Disper
> s _____
    - sret clear
    - syntax [, Mean Constant ]
    - if "`constan'"==""
    = if ""==""
    - sret local dispers "mean"
    - exit


---


> _____ end nbreg.Disper
> s _____
    - local dispers `s(dispers)'
    = local dispers mean
    - if "`dispers'"=="mean" {
    = if "mean"=="mean" {
        local prog "nbreg_lf"
        local parm "alpha"
        local LLprog "LLalpha"
        }
    - else {
        local prog "nbreg_al"
        local parm "delta"
        local LLprog "LLdelta"
        }
    - local title "Negative binomial regression"
    - if `score'!=""

```

```

= if `""'!="" {
    local nword : word count `score'
    if `nword'==1 & bsubstr("`score'",-1,1)== "*" {
        local score = bsubstr("`score'",1,length("`score")-1)
        local score `score'1 `score'2
        local nword 2
    }
    confirm new variable `score'
    if `nword' != 2 {
        version 7: di as err "option {bf:score()} must contain the name of "
> two new variables"
        exit 198
    }
    local scname1 : word 1 of `score'
    local scname2 : word 2 of `score'
    tempvar scvar1 scvar2
    local scop "score(`scvar1' `scvar2')"
}
- if "`offset'"!="`exposure"!="" {
= if ""!="" & ""!="" {
    version 7: di as err "options {bf:offset()} and {bf:exposure()} may no
> t be specified together"
    exit 198
}
- if "`constan'"!="`varlist' {
= if ""!="" {
    local nvar : word count `varlist'
    if `nvar' == 1 {
        version 7: di as err "independent variables required with " "option {b
> f:noconstant}"
        exit 102
    }
}
- marksample touse
- if `""`cluster"'"!="" {
= if `""'!="" {
    local clopt cluster(`cluster')
}
- _vce_parse, argopt(CLuster) opt(Robust oim opg) old: [`weight``exp'],
> `vce' `clopt' `robust'
= _vce_parse, argopt(CLuster) opt(Robust oim opg) old: [], vce(r)


---


> _____ begin _vce_pars
> e _____
    - version 10
    - _on_colon_parse `0'

```

```

= _on_colon_parse , argopt(CLuster) opt(Robust oim opg) old: [], vce(r
> )


---


> _____ begin _on_colon_pars
> e _____
- version 8.2
- sreturn local before """
- sreturn local after """
- gettoken before after : 0, parse(":") bind match(par) quotes
- if `^par` != "" {
= if "" != "" {
    local before `"(before)"'
}
- if `^`before` == ":" {
= if `", argopt(CLuster) opt(Robust oim opg) old` == ":" {
    sreturn local after `"`after`"
    exit
}
- while `^`COLON` != ":" & `^`after` != "" {
= while `^`"! = ":" & `":` [], vce(r) `` != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
- if `^par` != "" {
= if "" != "" {
    local before `before` (`COLON`)
    local COLON
}
- else if `^`COLON` != ":" {
= else if `":` != ":" {
    local before `before` `COLON`"
    local COLON
}
- }
- while `^`COLON` != ":" & `^`after` != "" {
= while `":` != ":" & `":` [], vce(r) `` != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if `^par` != "" {
        local before `before` (`COLON`)
        local COLON
    }
    else if `^`COLON` != ":" {
        local before `before` `COLON`"
        local COLON
    }
}
- if `^`COLON` != ":" {
= if `":` != ":" {

```

```

        di as err """ found where '::' expected"
        exit 198
    }
- sreturn local before `""`before"""
= sreturn local before `", argopt(CLuster) opt(Robust oim opg) old"""
- sreturn local after `""`after"""
= sreturn local after `" []", vce(r)  """

```

```

> _____ end _on_colon_pars
> e _____
    - local 0 `""`s(before)`"""
    = local 0 `", argopt(CLuster) opt(Robust oim opg) old"""
    - local user `""`s(after)`"""
    = local user `" []", vce(r)  "
    - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist(namel
> ist) PWallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
    - local touse `varlist'
    = local touse
    - tempname o a
    - .`o' = ._optlist.new
    = ._000001 = ._optlist.new
    -class {
    -instance:
        -         array options   = {}
        -         array names     = {}
        -}
    - local optlist : list uniq optlist
    - foreach name of local optlist {
    - .`o'.addopt `name'
    = ._000001.addopt Robust

```

```

> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(``optspec``)
    = local mname = lower("Robust")
    - if ``passthru`` != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush ``optspec``
    = .options.Arrpush "Robust"
    - .names.Arrpush ``mname``
    = .names.Arrpush "robust"

```

```

> _____ end _optlist.addop
> t _____
- }
- .`o'.addopt `name'
= __00001.addopt oim
_____
> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(``optspec'')
= local mname = lower("oim")
- if ``passthru'' != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush ``optspec''
= .options.Arrpush "oim"
- .names.Arrpush ``mname''
= .names.Arrpush "oim"
_____
> _____ end _optlist.addop
> t _____
- }
- .`o'.addopt `name'
= __00001.addopt opg
_____
> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(``optspec'')
= local mname = lower("opg")
- if ``passthru'' != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush ``optspec''
= .options.Arrpush "opg"
- .names.Arrpush ``mname''
= .names.Arrpush "opg"
_____
> _____ end _optlist.addop
> t _____
- }
- .`a' = __optlist.new

```

```

= .__000002 = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- `a'.addopt `name'
= __000002.addopt CLuster


---


> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(``optspec'')
= local mname = lower("CLuster")
- if ``passthru'' != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush ``optspec''
= .options.Arrpush "CLuster"
- .names.Arrpush ``mname''
= .names.Arrpush "cluster"


---


> _____ end _optlist.addop
> t _____
- }
- local OPTNAMES ```o'.dumpnames''


---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/.names.arrnels' {
= forval i = 1/3 {
- local namelist `namelist' `.names[`i']'
= local namelist robust
-
- local namelist `namelist' `.names[`i']'
= local namelist robust oim
-
- local namelist `namelist' `.names[`i']'
= local namelist robust oim opg
-
- local namelist : list uniq namelist
- sreturn local namelist ```namelist'''
= sreturn local namelist ``robust oim opg'''
- class exit ```namelist'''
= class exit ``robust oim opg'''


---



```

```

> _____ end _optlist.dumpname
> s _____
= local OPTNAMES `"robust oim opg"
- local ARGOPTNAMES `".`a'.dumpnames"""
_____
> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/.names.arrnels' {
= forval i = 1/1 {
- local namelist `namelist' `.names[`i']'
= local namelist cluster
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist""'
= sreturn local namelist `"cluster""'
- class exit `"`namelist""'
= class exit `"cluster"""
_____
> _____ end _optlist.dumpname
> s _____
= local ARGOPTNAMES `"cluster""'
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
    di as err "vcetype `:word 1 of `AND''' specified twice"
    exit 198
}
- local pswallowed : list uniq pswallowed
- local pwlist robust cluster
- foreach n of local pswallowed {
    local lc = lower(`n')
    local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
}
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
}
}

```

```

- }
- local 0 `""`user"""
= local 0 `""`[], vce(r) """
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varname) ]
- if `""`vce"" != """
= if `""`r"" != """
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE _000001 _000002 , r


---


> _____ begin _vce_parse.ParseVC
> E _____
- gettoken 0 0 : 0, parse(" ,")
- gettoken A 0 : 0, parse(" ,")
- local OPTSPECS `""`.`0'.dumpoptions' `.`A'.dumpoptions"""


---


> _____ begin _optlist.dumpoption
> S _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/3 {
- local optlist `optlist' `.`options[`i']'
= local optlist Robust
- }
- local optlist `optlist' `.`options[`i']'
= local optlist Robust oim
- }
- local optlist `optlist' `.`options[`i']'
= local optlist Robust oim opg
- }
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `""`Robust oim opg"""
- class exit `""`optlist"""
= class exit `""`Robust oim opg"""


---


> _____ end _optlist.dumpoption
> S _____


---


> _____ begin _optlist.dumpoption
> S _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/1 {

```

```

- local optlist `optlist' `.`options[`i']'
= local optlist  CCluster
- }
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `""`CCluster"""
- class exit `""`optlist"""
= class exit `""`CCluster"""

> _____ end _optlist.dumpoption
> s _____
= local OPTSPECS `""Robust oim opg CCluster"""
- local OPTNAMES `""`O'.dumpnames' `.`A'.dumpnames"""
_____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`names.arrnels' {
= forval i = 1/3 {
- local namelist `namelist' `.`names[`i']'
= local namelist robust
- }
- local namelist `namelist' `.`names[`i']'
= local namelist robust oim
- }
- local namelist `namelist' `.`names[`i']'
= local namelist robust oim opg
- }
- local namelist : list uniq namelist
- sreturn local namelist `""`namelist"""
= sreturn local namelist `""`robust oim opg"""
- class exit `""`namelist"""
= class exit `""`robust oim opg"""

> _____ end _optlist.dumpname
> s _____
_____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`names.arrnels' {
= forval i = 1/1 {
- local namelist `namelist' `.`names[`i']'
= local namelist cluster
- }
- local namelist : list uniq namelist

```

```

    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `""`cluster"""
    - class exit `""`namelist"""
    = class exit `""`cluster"""

> _____ end _optlist.dumpname
> s _____
    = local OPTNAMES `""`robust oim opg cluster"""
    - syntax [, `OPTSPECS']
    = syntax [, Robust oim opg CLuster]
    - foreach OPT of local OPTNAMES {
    - if `""`OPT"" != "" {
    = if `""`robust"" != "" {
    - return local vce `OPT'
    = return local vce robust
    - continue, break
    }
    }

> _____ end _vce_parse.ParseVC
> E _____
    - if c(rc) {
        di as err "vcetype {bf:`name'} not allowed"
        exit 198
    }
    - local name `r(vce)'
    = local name robust
    - if `""`weight"" == "pweight" & !`:list name in pwlist' {
    = if "" == "pweight" & !1 {
        di as err "pweights are not allowed with vce(`name')"
        exit 198
    }
    - return add
    - if `""`robust"" != "" & !inlist(`name","",`robust","eim","oim","cl
> uster") {
    = if `""` != "" & !inlist("robust","",`robust","eim","oim","cluster")
> {
    opts_exclusive `robust' vce(`name')
}
- if `name'' == "cluster" {
= if "robust" == "cluster" {
    if `args'' == "" {
        di as err "invalid vce(cluster) option"
        exit 198
    }
    confirm var `args'

```

```

unab args : `args'
local markout `args'
if "`cluster'" != "" {
    if !`list args == cluster' {
        di as err "options cluster() and vce(cluster) are in conflict"
        exit 100
    }
}
}
}
-
else if "`cluster'" != "" & !inlist("`name'", "eim", "oim") {
=
else if "" != "" & !inlist("robust", "eim", "oim") {
    opts_exclusive "cluster() vce(`name')"
}
-
if `"`args`'" != "" {
=
if `""' != "" {
    if !`list name in ARGOPTNAMES' {
        di as err "invalid vce() option"
        exit 198
    }
    if "`name'" == "hc2" {
        confirm var `args'
        unab args : `args'
        local markout `args'
    }
    return local vceargs `":list retok args`'"
}
-
else if `:list name in ARGOPTNAMES' {
=
else if 0 {
    if "`noargopt_is_ok'" == "" {
        di as err "invalid vce() option"
        exit 198
    }
}
-
}
-
else {
    if "`weight'" == "pweight" | "`robust'" != "" {
        local vce robust
    }
    if "`cluster'" != "" {
        local vce cluster
        local args `cluster'
        local markout `cluster'
    }
    return local vce `":vce`""
return local vceargs `":args`""
}

```

```

- if "`return(vce)' != "" {
= if "robust" != "" {
- if `"`return(vceargs)'"' != "" {
= if `""' != "" {
    local ss " "
}
- return local vceopt `"vce(`return(vce)`ss`return(vceargs))"'
= return local vceopt `"vce(robust)"
- }
- if "`return(vce)' == "cluster" {
= if "robust" == "cluster" {
    return local cluster `return(vceargs)'
}
- if inlist("`return(vce)", "robust", "cluster") {
= if inlist("robust", "robust", "cluster") {
- return local robust robust
}
- if "`touse'" != "" {
= if "" != "" {
    if "`markout'" != "" {
        markout `touse' `markout', strok
    }
}

```

```

> _____ end _vce_pars
> e _____
- local cluster `r(cluster)'
= local cluster
- local robust `r(robust)'
= local robust robust
- local vce ```r(vceopt)'''
= local vce `"vce(robust)"
- if ```cluster'''!="" {
= if `""'!="" {
    markout `touse' `cluster', strok
}
- if "`exposur'"!=" {
= if ""!="" {
    capture assert `exposur' > 0 if `touse'
    if _rc {
        version 7: di as err "option {bf:exposure()} must be greater than zero
    }
    exit 459
}
tempvar offset
qui gen double `offset' = ln(`exposur')

```

```

    local offvar "ln(`exposur')"
}
- if "`offset'"!=""
= if ""!=""
    markout `touse' `offset'
    local offopt "offset(`offset')"
    if "`offvar'"==""
        local offvar "`offset'"
    }
}
- gettoken y xvars : varlist
- _fv_check_depvar `y'
= _fv_check_depvar piq_timing_max
- tsunab y : `y'
= tsunab y : piq_timing_max

```

```
> _____ begin tsuna
> b _____
```

```

    - version 6
    - gettoken user 0: 0, parse(" :")
    - gettoken colon 0: 0, parse(" :")
    - if `"`colon`"" != ":" { error 198 }
    = if `":`" != ":" { error 198 }
    - syntax [varlist(ts default=empty)] [, MIN(integer 1) MAX(integer 320
> 00) NAME(string)]
    - c_local `user' `varlist'
    = c_local y piq_timing_max
    - local n : word count `varlist'
    = local n : word count piq_timing_max
    - if `n'>=`min' & `n'<=`max' { exit }
    = if 1>=1 & 1<=32000 { exit }

```

```
> _____ end tsuna
> b _____
```

```

    - local yname : subinstr local y "." "_"
    - if "`weight'"!=""
    = if ""!=""
        if "`weight'"=="fweight" {
            local wt `"[fw`exp']"
        }
        else local wt `"[aw`exp']"
    }
    - summarize `y' `wt' if `touse', meanonly
    = summarize piq_timing_max if __000000, meanonly
    - if r(N) == 0 { error 2000 }
    - if r(N) == 1 { error 2001 }

```

```

- if r(min) < 0 {
    version 7: di as err "{bf:`y'} must be greater than or equal to zero"
    exit 459
}
- if r(min) == r(max) & r(min) == 0 {
    version 7: di as err "{bf:`y'} is zero for all observations"
    exit 498
}
- tempfile mean
- scalar `mean' = r(mean)
= scalar __000001 = r(mean)
- if "`display'"=="" {
= if ""==" {
- capture assert `y' == int(`y') if `touse'
= capture assert piq_timing_max == int(piq_timing_max) if __000000
- if _rc {
    di in gr "note: you are responsible for " "interpretation of non-count
> dep. variable"
    }
- }
- if "`display'"=="" & "`weight'"=="aweight" {
= if ""==" & ""=="aweight" {
    di in gr "note: you are responsible for interpretation " "of analytic
> weights"
    }
- if `fvops' {
= if 1 {
- local rmcoll "version 11: _rmcoll"
- }
- else local rmcoll _rmcoll
- if "`display'"!=" & "`weight'"=="aweight" {
= if ""!=" & ""=="aweight" {
    `rmcoll' `xvars' [iw`exp'] if `touse', `constan' `coll'
    }
- else `rmcoll' `xvars' [`weight``exp'] if `touse', `constan' `coll'
= else version 11: _rmcoll cb_authors_ext vint_late estimated stky_pr_r
> otemberg stky_pr_calvo open wlth [] if __000000,
- local xvars `r(varlist)'
= local xvars cb_authors_ext vint_late estimated stky_pr_rotemberg stky_
> pr_calvo open wlth
- _parse_iterlog, `log' `nolog'
= _parse_iterlog,


---


> _____ begin _parse_iterlo
> g _____
- version 16

```

```

- syntax [, NOLOG LOG]
- if "`log'`nolog'" != "" {
= if "" != "" {
    opts_exclusive "`log' `nolog'"
}
- else if "`c(ITERLOG)" == "on" {
= else if "on" == "on" {
    local log log
}
- else {
    local nolog nolog
}
- sreturn local log `log'
= sreturn local log log
- sreturn local nolog `nolog'
= sreturn local nolog

```

```

> _____ end _parse_iterlo
> g _____
- local log "`s(nolog)"
= local log ""
- if "`log'"!="`nolog'" | "`display'"!="`nolog'" { local nohead "*"
}
= if ""!=`nolog' | ""!=`display' { local nohead "*"
}
- if "`from'"=="`" & "`lrtest'"=="`" {
= if `from'=="`" & "lrtest"=="`" {
- if "`robust'"`cns'"`cluster'"!="`" | "`weight'"=="`pweight'" {
= if "robust"!="`" | ""=="`pweight'" {
    local lrtest "nolrtest"
}
- `nohead' di in gr _n "Fitting Poisson model:"
= di in gr _n "Fitting Poisson model:"
```

Fitting Poisson model:

```

- `vvpoi' poisson `y' `xvars' [`weight'`exp'] if `touse', nodisplay `off
> opt' `constan' `mlopts' `robust'
= version 18, missing: poisson piq_timing_max cb_authors_ext vint_late e
> stimated stky_pr_rotemberg stky_pr_calvo open wlth [] if __000000, nodisplay
> robust

```

```

> _____ begin poisson
> n _____
- if _by() {
    local BY `by` `_byvars``_byrc0':``
}
- `BY' _vce_parserun poisson, mark(Exposure OFFset CLuster) : `0'
= _vce_parserun poisson, mark(Exposure OFFset CLuster) : piq_timing_m
```

```

> ax cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open w
> lth [] if __000000, nodisplay      robust
> n _____ begin _vce_parseru
> n _____
    - version 9
    - local version : di "version " string(_caller()) ":""
    - local bycall = _by()
    - _on_colon_parse `0'
    = _on_colon_parse poisson, mark(Exposure OFFset CLuster) : piq_timin
> g_max cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo ope
> n wlth [] if __000000, nodisplay      robust
> _____ begin _onColon_pars
> e _____
    - version 8.2
    - sreturn local before """
    - sreturn local after """
    - gettoken before after : 0, parse(":") bind match(par) quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"`
    }
    - if `"`before'"' == ":" {
    = if `"`poisson, mark(Exposure OFFset CLuster)"' == ":" {
        sreturn local after `"`after'"
        exit
    }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `""' != ":" & `":` piq_timing_max cb_authors_ext vint_late
> estimated stky_pr_rotemberg stky_pr_calvo open wlth [] if __000000, nodispla
> y      robust"! != "" {
    - gettoken COLON after : after, parse(":") bind match(par) quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
    }
    - else if `"`COLON'"' != ":" {
    = else if `":'" != ":" {
        local before `"`before' `COLON'"'
        local COLON
    }
    - }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `":'" != ":" & `"`piq_timing_max cb_authors_ext vint_late

```

```

> estimated stky_pr_rotemberg stky_pr_calvo open wlth [] if __000000, nodispla
> y      robust"! != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if "`par'" != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if `""`COLON""' != ":" {
        local before `""`before' `COLON""'
        local COLON
    }
}
- if `""`COLON""' != ":" {
= if `":"" != ":" {
    di as err "" found where ':' expected"
    exit 198
}
- sreturn local before `""`before"""
= sreturn local before `""poisson, mark(Exposure OFFset CLuster) """
- sreturn local after `""`after"""
= sreturn local after `"" piq_timing_max cb_authors_ext vint_late e
> stimated stky_pr_rotemberg stky_pr_calvo open wlth [] if __000000, nodisplay
>      robust"

```

```

> _____ end _on_colon_pars
> e _____
    - local ZERO `""`s(before)""
    = local ZERO `""poisson, mark(Exposure OFFset CLuster) """
    - local 0 `""`s(after)""
    = local 0 `"" piq_timing_max cb_authors_ext vint_late estimated stky_
> pr_rotemberg stky_pr_calvo open wlth [] if __000000, nodisplay      robust"
    - quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(
> string asis) VCE1(string asis) LRMODEL * ]
    - if `""`vce"" == "" {
= if `""" == "" {
    - MYRESULT

```

```

> _____ begin _vce_parserun.MYRESUL
> T _____
    - args exit
    - sreturn local exit `""`exit"""
= sreturn local exit `"""

```

```

> _____ end _vce_parserun.MYRESUL
> T _____
    - exit

```

```

> _____ end _vce_parseru
> n _____
- if "`s(exit)`" != "" {
= if "" != "" {
    version 10: ereturn local cmdline `poisson `0``
    exit
}
- version 6, missing
- local version : di "version " string(_caller()) ":""
- if replay() {
    if "`e(cmd)`" != "poisson" {
        error 301
    }
    if _by() { error(190) }
    Display `0'
    error `e(rc)'
    exit
}
- `version' `BY' Estimate `0'
= version 18: Estimate piq_timing_max cb_authors_ext vint_late estima
> ted stky_pr_rotemberg stky_pr_calvo open wlth [] if __000000, nodisplay      r
> obust
_____
> _____ begin poisson.Estimat
> e _____
- local vv "version 8.1:"
- local mm d2
- local eval poiss_lf
- version 6, missing
- local awopt = cond(_caller()<7, "aw", "")
- syntax varlist(numeric fv ts) [fw `awopt' pw iw] [if] [in] [, IRR
> FROM(string) Level(cilevel) OFFset(varname numeric ts) Exposure(varname nume
> ric ts) noCONSTant Robust CLuster(varname) SCore(string) noDISPLAY CRITTYPE(
> passthru) MATAevaluator moptobj(passthru) * ]
= syntax varlist(numeric fv ts) [fw pw iw] [if] [in] [, IRR FROM(st
> ring) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeric ts)
> noCONSTant Robust CLuster(varname) SCore(string) noDISPLAY CRITTYPE(passthru
> u) MATAevaluator moptobj(passthru) * ]
- local fvops = "`s(fvops)`" == "true" | _caller() >= 11
= local fvops = "" == "true" | _caller() >= 11
- if `fvops' {
= if 1 {
- local vv : di "version " string(max(11,_caller())) ", missing:"
- local mm e2
- if "`mataevaluator`" != "" {

```

```

= if "" != "" {
    local eval mopt_poisson_e2()
}
- local negh negh
-
- if _by() {
    _byoptnotallowed score `""`score"""
}
- _get_diopts diopts options, `options'
= _get_diopts diopts options,


---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
= GetDiopts diopts options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElev
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> sssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> sssthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {

```

```

        = while `""' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while `""' != "" {
      local ++n
      gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while `""' != "" {
      local ++n
      gettoken item`n' opts : opts, bind
    }

```

```

    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``emptycells' `noemptycells''
    = opts_exclusive " "
    _____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``f xlabel' `no f xlabel''
    = opts_exclusive " "
    _____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "
```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `"`opts`"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `"`opts`"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

= local opts
- local n 0
- while `"\`opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"\`opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local f xlabel `f xlabel' `nof xlabel'
= local f xlabel

```

```

- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
}

```

```

sreturn local sformat `""`sformat"""
local sformat `"$sformat(`$sformat')"""
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"$pformat"') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
local pformat `"$pformat(`$pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____

```

```

- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts"'' != ""' {
= while `""' != ""' {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fwrapon `word' `width'
= local fwrapon
- if `:length local fwrapon' {
= if 0 {
  c_local fwrapon fwrapon(`fwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if "`fwrap'" != "" {
= if "" != "" {
  FWrap, `fwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fwrap' `fwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `abbrev'
= c_local diopts
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1' `""`diopts"""
= c_local diopts `"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')

```

```

= local S_level = s(level)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElev
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> sssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> sssthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n

```

```

        gettokent item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    
```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``lstretch' `nolstretch''
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `""' != "" {
        local ++n
        gettokent item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    
```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``cnsreport' `fullcnsreport''
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `""' != "" {
        local ++n
        gettokent item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {

```

```
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
```

```

    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``abbrev' `noabbrev''
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `"`opts`"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - local allbaselevels `allbaselevels' `noallbaselevels'
  = local allbaselevels
  - local baselevels `baselevels' `nobaselevels'
  = local baselevels
  - local emptycells `emptycells' `noemptycells'
  = local emptycells
  - local omitted `omitted' `noomitted'
  = local omitted
  - local lstretch `lstretch' `nolstretch'
  = local lstretch
  - local fylabel `fylabel' `nofylabel'
  = local fylabel
  - local abbrev `abbrev' `noabbrev'
  = local abbrev
  - if "`allbaselevels` `baselevels'" == "" {
  = if `""` == `""` {
  - if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
  }
  - else if c(showbaselevels) == "on" {
    local baselevels baselevels
  }
  - }
  - if "`emptycells'" == "" {
  = if `""` == `""` {
  - if c(showemptycells) == "off" {
    local emptycells noemptycells
```

```

}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat''
    local cformat `cformat(`cformat')"
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat''
    local sformat `sformat(`sformat')"
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat''
    local pformat `pformat(`pformat')"
}
-
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {

```

```

syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wronon , `fvwronon'
= Wronon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"' != "" {
= while `""' != "" {
        local ++n
        gettokend item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }


---


> _____ end _get_diopts.Wrapo

```

```

> n -----
  - if ``fvwrap'' != "" {
  = if "" != "" {
    FVWrap, `fvwrap'
  }
  - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvrapon' `fvlable' `noci' `nopvalues' `markdown' `citype' `abbrev'
  = c_local DEFAULT
  - if `K' == 2 {
  = if 1 == 2 {
    c_local `c_opts' `""`options"""
  }
  - sreturn local coding `coding'
  = sreturn local coding
  - sreturn local versus `versus'
  = sreturn local versus
  - sreturn local compare `compare'
  = sreturn local compare
  - sreturn local level `level'
  = sreturn local level 95
  -----
> ----- end _get_diopts.GetDiopt
> s -----
  - if `""`name2""'' == "" {
  = if `""options""' == "" {
    GetDiopts DUPS, `options'
  }
  - else {
  - GetDiopts DUPS options, `options'
  = GetDiopts DUPS options,
  -----
> ----- begin _get_diopts.GetDiopt
> s -----
  - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
  - syntax namelist(max=2) [, `DIOPTS' *]
  = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElev
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa

```

```

> sssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPVALUES MARKDOWN CITYPE(pa
> sssthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels'"
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
  - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
  - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend` `selegend`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
```

```
> e _____  
- local allbaselevels `allbaselevels' `noallbaselevels'  
= local allbaselevels  
- local baselevels `baselevels' `nobaselevels'  
= local baselevels  
- local emptycells `emptycells' `noemptycells'  
= local emptycells  
- local omitted `omitted' `noomitted'  
= local omitted  
- local lstretch `lstretch' `nolstretch'  
= local lstretch  
- local fvlable `fvlable' `nofvlabel'  
= local fvlable  
- local abbrev `abbrev' `noabbrev'  
= local abbrev  
- if "`allbaselevels` `baselevels'" == "" {  
= if "" == "" {  
- if c(showbaselevels) == "all" {  
    local allbaselevels allbaselevels  
}  
- else if c(showbaselevels) == "on" {  
    local baselevels baselevels  
}  
- }  
- if "`emptycells'" == "" {  
= if "" == "" {  
- if c(showemptycells) == "off" {  
    local emptycells noemptycells  
}  
- }  
- if "`omitted'" == "" {  
= if "" == "" {  
- if c(showomitted) == "off" {  
    local omitted noomitted  
}  
- }  
- if "`lstretch'" == "" {  
= if "" == "" {  
- if c(lstretch) == "off" {  
    local lstretch nolstretch  
}  
- }  
- if `:length local cformat' {  
= if 0 {  
    confirm numeric format `cformat'  
    if fmtwidth("`cformat'") > 9 {
```

```

local cformat "%9.0g"
di "{txt}note: invalid cformat(), using default"
}
sreturn local cformat `""`cformat"""
local cformat `"cformat(`cformat')"""
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`""`sformat"""') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `""`sformat"""
    local sformat `"sformat(`sformat')"""
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`""`pformat"""') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
    local pformat `"pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIth]
    - if c(rc) {
        di as err "invalid fvrapon() option;"
        syntax [, WOrd WIth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvrapon

```

```

= opts_exclusive " " fwrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fwrapon `word' `width'
= local fwrapon
- if `:length local fwrapon' {
= if 0 {
    c_local fwrapon fwrapon(`fwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if "`fwrap'" != "" {
= if "" != "" {
    FWrap, `fwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fwrap' `fwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
= c_local DUPS
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'

```

```

        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name2' `""`options"""
    = c_local options `"""
    - }
    - local DUPS : list DUPS - DEFAULT
    - gettoken DUPS : DUPS
    - if `""`DUPS"" != "" {
    = if `""` != "" {
        if (strpos(`""`DUPS""", "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS `""`DUPS'()"'
        }
        di as err "duplicate {bf:`DUPS'} option not allowed"
        exit 198
        }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local level = `""95""'
    - }


---


> _____ end _get_diopt
> s _____
    - mlopts mlopts, `options'
    = mlopts mlopts,


---


> _____ begin mlopt
> s _____
    - version 8.0
    - local maxoptlist ML0PTs(string) TRace TRACEDIffs GRADient HESSia
> n SHOWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance
> (real -1) NONRTOLerance SHOWNRtolerance SHOWTOLerance NRTOLerance(real -1) Q
> TOLerance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTEs COL
> linear TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCO
> NCAVE(passthru) USEVIEWS NOLOG LOG nrderiv
        - syntax namelist(id="macro names" min=1 max=2) [, `maxoptlist' *
> ]
            = syntax namelist(id="macro names" min=1 max=2) [, ML0PTs(string)
> TRace TRACEDIffs GRADient HESSian SHOWSTEP ITERate(int -1) TOLerance(real -1

```

```

> ) LTOLerance(real -1) GTOLerance(real -1) NONRTOLerance SHOWNRtolerance SHOW
> TOLerance NRTOLerance(real -1) QTOLerance(real -1) DIFFicult HALFSTEPonly CO
> NSTraints(string) noCNSNOTEs COLlinear TECHnique(passthru) VCE(passthru) DOT
> S depsilon(passthru) SHOWH NOTCONCAVE(passthru) USEVIEWS NOL0g L0g nrderiv *
> ]
      - gettoken dest rest : namelist
      - if "`rest'" == "" {
      = if "" == "" {
      - syntax namelist [, `maxoptlist' ]
      = syntax namelist [, MLOPTs(string) TRace TRACEDiffs GRADient HESS
> ian SHOWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLeran
> ce(real -1) NONRTOLerance SHOWNRtolerance SHOWTOLERANCE NRTOLerance(real -1)
> QTOLerance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTEs C
> OLLinear TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOT
> CONCAVE(passthru) USEVIEWS NOL0g L0g nrderiv ]
      - }
      - local mlopts `mlopts' `trace' `tracediffs' `gradient' `hessian'
> `showstep' `difficult' `halfsteponly' `nonrtolerance' `shownrtolerance' `sho
> wtolerance' `dots' `depsilon' `showh' `notconcave' `useviews' `log' `nolog'
> `nrderiv'
      = local mlopts
      - if `tolerance' != -1 {
      = if -1 != -1 {
          local tol "tolerance(`tolerance')"
      }
      - if `ltolerance' != -1 {
      = if -1 != -1 {
          local ltol "ltolerance(`ltolerance')"
      }
      - if `gtolerance' != -1 {
      = if -1 != -1 {
          local gtol "gtolerance(`gtolerance')"
      }
      - if `nrtolerance' != -1 {
      = if -1 != -1 {
          local nrtol "nrtolerance(`nrtolerance')"
      }
      - if `qtolerance' != -1 {
      = if -1 != -1 {
          local qtol "qtolerance(`qtolerance')"
      }
      - if `iterate' != -1 {
      = if -1 != -1 {
          local iter "iterate(`iterate')"
      }
      - sreturn clear

```

```

- if "`technique` `vce'" != "" {
= if "" != "" {
    ml_technique, `technique' `vce' nodefault
    if "`s(technique)'" != "" {
        local technique "technique(`s(technique))"
    }
    if "`s(vce)'" != "" {
        local vce "`s(vceopt)"
    }
    sreturn local technique "`technique'"
    sreturn local vce "`vce'"
}
- if "`constraints'" != "" {
= if "" != "" {
    capture confirm name `constraints'
    if _rc {
        CheckClist constraints , constraints(`constraints')
    }
    else {
        CheckCmat `constraints'
    }
    local const "constraints(`constraints')"
    sreturn local constraints "`constraints'"
}
- sreturn local collinear "`collinear'"
= sreturn local collinear ""
- c_local `dest' `mlopts' `tol' `ltol' `gtol' `nrtol' `iter' `cons
> t' `cnsnotes' `collinear' `technique' `vce' `qtol'
= c_local mlopts
- if "`rest'" != "" {
= if "" != "" {
    c_local `rest' `options'"
}


---


> _____ end mlopt
> s _____
- local coll `s(collinear)'
= local coll
- local cns `s(constraints)'
= local cns
- local mlopts `mlopts' `crittype'
= local mlopts
- if "`score'"!=""
= if ""!=""
    confirm new variable `score'
    local nword : word count `score'

```

```

if `nword' > 1 {
di in red "score() must contain the name of only " "one new variab
> le"
    exit 198
}
tempvar scvar
local scop score(`scvar')
}
- if "`offset'"!="`exposur'"!=`constan'" {
= if ""!=`constan'" & ""!=`offset' {
    di in red "only one of offset() or exposure() can be specified"
    exit 198
}
- if "`constan'"!=`offset' {
= if ""!=`offset' {
    local nvar : word count `varlist'
    if `nvar' == 1 {
        di in red "independent variables required with " "noconstant option
> n"
        exit 100
    }
}
- marksample touse
- if `cluster'"!=`constan'" {
= if `cluster'"!=`constan'" {
    markout `touse' `cluster', strok
    local clopt cluster(`cluster')
}
- if "`exposur'"!=`constan'" {
= if ""!=`constan'" {
    capture assert `exposur' > 0 if `touse'
    if _rc {
        di in red "exposure() must be greater than zero"
        exit 459
    }
    tempvar offset
    qui gen double `offset' = ln(`exposur')
    local offvar "ln(`exposur')"
}
- if "`offset'"!=`constan'" {
= if ""!=`constan'" {
    markout `touse' `offset'
    local offopt "offset(`offset')"
    if "`offvar'"==`constan'" {
        local offvar "`offset'"
    }
}

```

```

        }
- gettoken y xvars : varlist
- _fv_check_depvar `y'
= _fv_check_depvar piq_timing_max
- tsunab y : `y'
= tsunab y : piq_timing_max


---


> _____ begin tsuna
> b _____
    - version 6
    - gettoken user 0: 0, parse(" :")
    - gettoken colon 0: 0, parse(" :")
    - if `:``colon' != ":" { error 198 }
    = if `:"` != ":" { error 198 }
    - syntax [varlist(ts default=empty)] [, MIN(integer 1) MAX(integer
> 32000) NAME(string)]
    - c_local `user' `varlist'
    = c_local y piq_timing_max
    - local n : word count `varlist'
    = local n : word count piq_timing_max
    - if `n'>=`min' & `n'<=`max' { exit }
    = if 1>=1 & 1<=32000 { exit }


---


> _____ end tsuna
> b _____
    - local yname : subinstr local y "." "_"
    - if "`weight'"!=""
    = if ""!=""
        if "`weight'"=="fweight" {
        local wt `"[fw`exp']"
        }
        else if "`weight'"=="iweight" {
        local wt `"[iw`exp']"
        }
        else local wt `"[aw`exp']"
    }
    - summarize `y' `wt' if `touse', meanonly
    = summarize piq_timing_max if __000002, meanonly
    - if r(N) == 0 { error 2000 }
    - if r(N) == 1 { error 2001 }
    - if r(min) < 0 {
        di in red "`y' must be greater than or equal to zero"
        exit 459
    }
    - if r(min) == r(max) & r(min) == 0 {
        di in red "`y' is zero for all observations"

```

```

        exit 498
    }
- tempfile mean nobs
- scalar `mean' = r(mean)
= scalar __000003 = r(mean)
- scalar `nobs' = r(N)
= scalar __000004 = r(N)
- if "`display'"==""
= if "nodisplay"==""
    capture assert `y' == int(`y') if `touse'
    if _rc {
        _New_Note `0'
    }
}
- if "`display'"=="" & "`weight'"=="aweight"
= if "nodisplay"=="" & ""=="aweight"
    di in blu "note: you are responsible for interpretation " "of anal
> ytic weights."
}
- if "`constan'"`cns'"=="" & "`cluster'"=="" & "`weight'"!="pweight"
> {
= if ""=="" & ""=="" & ""!="pweight" {
- tempfile c
- if "`offset'"!=""
= if ""!="{
    SolveC `y' `offset' [`weight``exp'] if `touse', n(`nobs') mean(`me
> an')
    scalar `c' = r(_cons)
    if `c'>=. {
        di in blu "note: exposure = exp(`offvar') overflows;" _n "
> uld not estimate constant-only model" _c
        if "`exposur'"==""
        di in blu _n "      use exposure() option for exposure = `offvar'.
> "
    }
    else di in blu "."
    local cfail 1
}
local c "`c'+`offset'"
}
- else scalar `c' = ln(`mean')
= else scalar __000005 = ln(__000003)
- if "`cfail'"==""
= if ""==""
- LikePois `y' `c' [`weight``exp'] if `touse', n(`nobs')
= LikePois piq_timing_max __000005 [] if __000002, n(__000004)

```

```

> 

---

 begin poisson.LikePoi
> s 

---


- gettoken y 0 : 0
- gettoken xb 0 : 0
- syntax [fw aw pw iw] [if] , Nobs(string)
- if "`weight'"!="`"
= if ""!=`"
    if "`weight'"=="fweight" {
        local wt `"[fw`exp']""
    }
    else if "`weight'"=="iweight" {
        local wt `"[iw`exp']""
    }
    else local wt `"[aw`exp']""
- tempvar lnf
- qui gen double `lnf' = `y'*(`xb')-exp(`xb')-lngamma(`y'+1) `if'
= qui gen double __000006 = piq_timing_max*(__000005)-exp(__000005
> )-lngamma(piq_timing_max+1) if __000002
    - summarize `lnf' `wt' `if', meanonly
    = summarize __000006 if __000002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)


---


> 

---

 end poisson.LikePoi
> s 

---


- if r(lnf)<. {
- local ll0 "lf0(1 `r(lnf)')"
= local ll0 "lf0(1 -526.3044152481488)"
- }
- else {
    di in blu "note: could not compute " "constant-only model log like
> lihood."
    }
- }
- }
- if `fvops' {
= if 1 {
- local rmcoll "version 11: _rmcoll"
- }

```

```

- else local rmcoll _rmcoll
- if "`display'"!="`weight'"=="aweight" {
= if "nodisplay"!="" & ""=="aweight" {
    `rmcoll' `xvars' [iw`exp'] if `touse', `constan' `coll'
}
- else `rmcoll' `xvars' [`weight``exp'] if `touse', `constan' `coll'
= else version 11: _rmcoll cb_authors_ext vint_late estimated stky_
> pr_rotemberg stky_pr_calvo open wlth [] if __000002,
    - local xvars `r(varlist)'
    = local xvars cb_authors_ext vint_late estimated stky_pr_rotemberg s
> tky_pr_calvo open wlth
    - if "`from'"=="" {
= if ""=="" {
    - `vv' Ipois `y' `xvars' [`weight``exp'] if `touse', n(`nobs') mean(
> `mean') `constan' `offopt'
        = version 18, missing: Ipois piq_timing_max cb_authors_ext vint_late
> estimated stky_pr_rotemberg stky_pr_calvo open wlth [] if __000002, n(__00
> 004) mean(__000003)


---


> _____ begin poisson.Ipoi
> s _____
    - local vv : display "version " string(_caller()) ", missing:"
    - version 6, missing
    - syntax varlist(fv ts) [fw aw pw iw/] [if] , Nobs(string) Mean(st
> ring) [ noCONSTant OFFset(string) ]
    - gettoken y xvars : varlist
    - tempvar xb z
    - tempname b1 b2 lnf1
    - if "`weight'"!="`weight'" {
= if ""!= "" {
        local awt `"[aw=`exp']"`
        local wt `"(`exp')*"`
        local exp `"`=`exp'"'
    }
    - quietly {
    - if "`offset'"!="`offset'" {
= if ""!= "" {
        tempvar ynew
        gen double `ynew' = `y' - `offset'*`mean' `if'
        local poff "+`offset'"
    }
    - else local ynew `y'
= else local ynew piq_timing_max
    - `vv' _regress `ynew' `xvars' `awt' `if', `constan'
        = version 18, missing: _regress piq_timing_max cb_authors_ext vin
> t_late estimated stky_pr_rotemberg stky_pr_calvo open wlth if __000002,

```

```

> _____ begin _ereturn_displa
> y _____
  - version 11
  - if ``e(b)'' == "" & ``e(V)'' == "" {
  = if "matrix" == "" & "matrix" == "" {
    exit
  }
  - if ``e(cmd)'' == "regress" {
  = if "regress" == "regress" {
    - local ALTOPT Beta
  }
  - syntax [, eform(passthru) First neq(integer -1) PLus `ALTOPT'
> *]
  = syntax [, eform(passthru) First neq(integer -1) PLus Beta *]
  - _get_mcompare, `options'
  = _get_mcompare, level(95.00) fvwrap(1)


---


> _____ begin _get_mcompar
> e _____
  - version 11
  - local cmd ```e(cmd)'''
  = local cmd `regress'
  - syntax [name(name=caller)] [, *]
  - local is_pwc = inlist("pwcompare", ``cmd'', ``caller'') | in
> list("pwmean", ``cmd'', ``caller'')
  = local is_pwc = inlist("pwcompare", "regress", "") | inlist(
> pwmean", "regress", "")
  - local is_marg = inlist("margins", ``cmd'', ```e(cmd2)'', ``ca
> ller'')
  = local is_marg = inlist("margins", "regress", "", "")
  - local OPTIONS NOADJust BONferroni DUNCan DUNNnett SCHeffe SID
> ak SNK TUKey ADJustall
  - if `is_pwc' {
  = if 0 {
    syntax [name] [, `OPTIONS' MCOMPPare(string) *]
  }
  - else {
    syntax [name] [, MCOMPPare(string) *]
    - local suboption mcompare()
  }
  - sreturn clear
  - sreturn local options ```options'''
  = sreturn local options `level(95.00) fvwrap(1)'
  - if `is_pwc' {
  = if 0 {

```

```

        local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `sch
> effe' `sidak' `snk' `tukey'
        local METHOD : list uniq METHOD
        opts_exclusive "`METHOD'"
        local ALL `adjustall'
        opts_exclusive "`noadjust' `ALL'"
    }
    - local 0 `", `mcompare'"
    = local 0 `", ""
    - capture syntax [, `OPTIONS']
    = capture syntax [, NOADJust BONferroni DUNCan DUNNett SCHeffe
> SIDak SNK TUKey ADJustall]
    - if c(rc) {
        di as err "invalid mcompare() option;"
        di as err "method `mcompare' not allowed"
        error 198
    }
    - local METHOD `METHOD' `noadjust' `bonferroni' `duncan' `dunn
> ett' `scheffe' `sidak' `snk' `tukey'
    = local METHOD
    - local METHOD : list uniq METHOD
    - local ALL `ALL' `adjustall'
    = local ALL
    - local ALL : list uniq ALL
    - opts_exclusive "`METHOD'" `suboption'
    = opts_exclusive "" mcompare()



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != ""' {
    = while `""' != ""' {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit



---


> _____ end opts_exclusiv
> e _____
    - if "`METHOD'" == ""' {

```

```

= if "" == "" {
- if ``ALL'' != "" {
= if "" != "" {
    di as err "multiple comparison method required with the adju
> stall option"
        exit 198
    }
- local METHOD noadjust
- local noadjust noadjust
- }
- opts_exclusive ``ALL' `noadjust'' `suboption'
= opts_exclusive " noadjust" mcompare()

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts noadjust
    - local n 0
    - while ```opts''' != "" {
    = while ``noadjust'' != "" {
        - local ++n
        - gettoken item`n' opts : opts, bind
        = gettoken item1 opts : opts, bind
        - }
        - while ```opts''' != "" {
        = while `''' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
            }
            - if `n' < 2 {
            = if 1 < 2 {
            - exit

> _____ end opts_exclusiv
> e _____
    - local EXCLUDE duncan dunnett snk tukey
    - if `:list METHOD in EXCLUDE' {
    = if 0 {
        if `is_pwc' {
        local opt : copy local METHOD
        }
        else {
        local opt "mcompare(`METHOD')"
        }

```

```

local cmdlist anova manova regress mvreg pwmean
if "`cmd'" == "pwcompare" {
    local cmd `"`e(cmd_est)```"
}
if `is_marg' {
    local cmd margins
}
if !`:list cmd in cmdlist' | !`is_pwc' {
    di as err `"method `opt' is not allowed with results from `c
> md```"
    exit 322
}
if `"`e(prefix)```" == "svy" {
    di as err `"method `opt' is not allowed with results using t
> he svy prefix``"
    exit 322
}
local vce `"`e(vce)```"
if !inlist(`"vce"', "", "ols") {
    di as err `"method `opt' is not allowed with results using v
> ce(`vce')``"
    exit 322
}
}
}
- local EXCLUDE duncan dunnett snk tukey scheffe
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if `ALL' != "" {
        di as err `"option adjustall is not allowed with method `MET
> HOD```"
        exit 198
}
}
- sreturn local method `"`METHOD```"
= sreturn local method `"noadjust"'
- sreturn local adjustall `"`ALL```"
= sreturn local adjustall `""'


---


> _____ end _get_mcompar
> e _____
- if `s(method)' != "" {
= if "noadjust" != "" {
- loca mcopt mcompare(`s(method)' `s(adjustall)')
= loca mcopt mcompare(noadjust )
- }
- _get_diopts diopts, `s(options)'

```

```

= _get_diopts diopts, level(95.00) fwwrap(1)


---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options, level(95.00) fwwrap(1)


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> WRAPON(string) NOFVLABel FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWWRAPON(string) NOFVLABel FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts`"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`\n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv

```

```
> e _____  
- opts_exclusive ``allbaselevels' `nobaselevels''  
= opts_exclusive ""  
  
> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while `""`opts"" != "" {  
= while `""` != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  
  
> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``baselevels' `nobaselevels''  
= opts_exclusive ""  
  
> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while `""`opts"" != "" {  
= while `""` != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  
  
> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``emptycells' `noemptycells''  
= opts_exclusive ""
```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``abbrev' `noabbrev''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local allbaselevels `allbaselevels' `noallbaselevels'
    = local allbaselevels
    - local baselevels `baselevels' `nobaselevels'
    = local baselevels
    - local emptycells `emptycells' `noemptycells'
    = local emptycells
    - local omitted `omitted' `noomitted'
    = local omitted
    - local lstretch `lstretch' `nolstretch'
    = local lstretch
    - local fvlabel `fvlabel' `nofvlabel'
    = local fvlabel
    - local abbrev `abbrev' `noabbrev'
    = local abbrev
    - if ``allbaselevels`` `baselevels'' == "" {
    = if "" == "" {
        - if c(showbaselevels) == "all" {
            local allbaselevels allbaselevels
        }
    - else if c(showbaselevels) == "on" {
        local baselevels baselevels

```

```

}
-
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `"cformat(`cformat')"'
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `"sformat(`sformat')"'
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
}

```

```

        }
        sreturn local pformat `""`pformat"""
        local pformat `"$pformat(`pformat')"""
    }
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != ""' {
= while `""' != ""' {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon

```

```

- if `:length local fvrapon' {
= if 0 {
  c_local fvrapon fvrapon(`fvrapon')
}

> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "fvrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvrap(1)

> _____ begin _get_diopts.FVWra
> p _____
- syntax, fvrap(integer)
- if `fvrap' < 0 {
= if 1 < 0 {
  di as err "{p}invalid option {bf:fvrap(`fvrap')}; " "n
> onnegative integer required{p_end}"
  exit 198
}

> _____ end _get_diopts.FVWra
> p _____
- }
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
= c_local diopts          fvrap(1)
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options""'
= c_local options `""'
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

> _____ end _get_diopts.GetDiopt

```

```

> s _____
    - c_local `name1` ``diopts``
    = c_local diopts `fvwrap(1)`
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname` = s(`sname`)
    = local S_level = s(level)
    - }
    - local S_`sname` = s(`sname`)
    = local S_method = s(method)
    - }
    - local S_`sname` = s(`sname`)
    = local S_options = s(options)
    - }
    - sreturn clear
    - GetDiopts DEFAULT
    _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "
    _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `opts' != "" {
    = while `' != "" {
        local ++n
        gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
```

```
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``lstretch' `nolstretch''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``cnsreport' `fullcnsreport''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `""`opts`""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {

```

```

= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')'''
}

```

```

- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat'''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat ```pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ````opts''' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fwrapon `word` `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }



---


> _____ end _get_diopts.Wrapo
> n _____
    - if "`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts` `leveLOPT` `vsquish` `allbaselevels` `b
> aselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `co
> eflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compar
> e` `fwrap` `fwrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `abb
> rev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts` `""`options`"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95



---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2`""` == "" {
    = if `""` == "" {
        - GetDiopts DUPs, `options'
        = GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS

```

```

> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``fvlable' `nofvlabel''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``omitted' `noomitted''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____

```

```

- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``cnsreport' `fullcnsreport''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``coeflegend' `selegend''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```

> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> ----- end opts_exclusiv
> e -----
    - opts_exclusive "`noci`nopvalues"
    = opts_exclusive " "

```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> ----- end opts_exclusiv
> e -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding`compare"
    = opts_exclusive " "

```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fvlabel `fvlabel` `nofvlabel'
= local fvlabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }

```

```

- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')"
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')"
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `pformat(`pformat')"
}
-
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
-
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;" 
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word` `width'" fvwrapon
    = opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - local fvwrapon `word` `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

```

```

> _____ end _get_diopts.Wrapo
> n _____
    - if ``fvwrap`" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts` `leveLOPT` `vsquish` `allbaselevels` `b
> aselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `co
> eflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compar

```

```

> e` `fvwrap` `fvrapon` `fvlable` `noci` `nopvalues` `markdown` `cotype` `abb
> rev'
      = c_local DUPs
      - if `K' == 2 {
      = if 1 == 2 {
          c_local `c_opts' `""`options"""
          }
          - sreturn local coding `coding'
          = sreturn local coding
          - sreturn local versus `versus'
          = sreturn local versus
          - sreturn local compare `compare'
          = sreturn local compare
          - sreturn local level `level'
          = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
      - }
      - else {
          GetDiopts DUPs options, `options'
          c_local `name2' `""`options"""
          }
          - local DUPs : list DUPs - DEFAULT
          - gettoken DUPs : DUPs
          - if `""`DUPs""' != ""' {
          = if `""' != ""' {
              if (strpos(`""`DUPs""', "(")) {
                  gettoken DUPs : DUPs, parse("(")
                  local DUPs `""`DUPs'()""'
                  }
                  di as err "duplicate {bf:`DUPs'} option not allowed"
                  exit 198
                  }
                  - sreturn clear
                  - foreach sname of local snames {
                  - sreturn local `sname' = `""`S_`sname""'
                  = sreturn local level = `""95""'
                  }
                  - sreturn local `sname' = `""`S_`sname""'
                  = sreturn local method = `""noadjust""'
                  }
                  - sreturn local `sname' = `""`S_`sname""'
                  = sreturn local options = `""level(95.00) fvwrap(1)""'
                  }

```

```

> _____ end _get_diopt
> s _____
  - if !`:length local first' {
= if !0 {
  - local first showeqns
  - }
  - if `neq' < 1 {
= if -1 < 1 {
  - _ms_eq_info
  - local neqopt neq(`r(k_eq)')
= local neqopt neq(1)
  - }
  - else {
    local neqopt neq(`neq')
    }
  - _coef_table, nodiparm nocnsreport noeqlcheck eformall `eform' `'
> first' `neqopt' `plus' `beta' `mcopt' `diopts'
= _coef_table, nodiparm nocnsreport noeqlcheck eformall showeqns
> neq(1) mcompare(noadjust ) fvwrap(1)
_____
> _____ begin _coef_tabl
> e _____
  - version 11
  - local vv : di "version " string(max(11,_caller())) ", missin
> g:" _____
  - if (!c(noisily) & c(coeftabresults) == "off") {
    exit
  }
  - _check_eclasse
  - syntax [, BMATrix(passthru) VMATrix(passthru) * ]
  - if "`e(b)'" == "" & "`e(V)'" == "" & "`bmatrix``vmatrix'"==""
> " { _____
  = if "matrix" == "" & "matrix" == "" & ""="" {
    exit
  }
  - local mc_cmds contrast margins pwcompare pwmean
  - local cmd "`e(cmd)'"
  = local cmd "regress"
  - local keepmc : list cmd in mc_cmds
  - if inlist("`cmd'", "pwcompare", "pwmean") {
  = if inlist("regress", "pwcompare", "pwmean") {
    local groups GROUPS
  }
  - if "`cmd'" == "regress" {
  = if "regress" == "regress" {
    - local beta Beta

```

```

        - }
        - if "`cmd'" == "gsem" {
        = if "regress" == "gsem" {
            local fvignore fvignore(int 0)
            local flignore flignore
        }
        - if "`cmd'" == "sem" {
        = if "regress" == "sem" {
            local standardized STANDARDIZED
            local showginvariant SHOWGINVariant
            local nolabel NOLABEL LABel NOFVLABEL FVLABEL
            local nofootnote NOFOOTnote
            local wrap wrap(numlist max=1) fwwrap(passthru)
        }
        - if "`e(mi)'"=="mi" {
        = if ""=="mi" {
            local dftable DFTable
            local dfonly DFONLY
            local noclustreport NOCLUSTReport
            local pisematrix PISEMATrix(string)
        }
        - syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(
> string) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(st
> ring) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string)
> PCLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) `beta' `standardized' NOCI NOPValues `dftable' `dfonly' dfci DFPV
> alues dfmissing `groups' COEFLegend selegend `fvignore' `flignore' `showginv
> ariant' `nolabel' `nofootnote' `wrap' sort `pisematrix' depname(string) COEF
> Title(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEGend n
> oCNSReport FULLCNSReport `noclustreport' cformat(passthru) sformat(passthru)
> pformat(passthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SE
> Parator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EFORMALL CITYPE(string)
> eqselect(string) noEFORMNOTE * ]
                = syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(
> string) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(st
> ring) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string)
> PCLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) Beta NOCI NOPValues dfci DFPValues dfmissing COEFLegend seleg
> end      sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(
> string) cititle(string) NOMCLEGend noCNSReport FULLCNSReport cformat(passth
> ru) sformat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -
> 1) NODIPARM NOTEST SEPator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EF
> ORMALL CITYPE(string) eqselect(string) noEFORMNOTE * ]
                - if "`wrap'" != "" {

```

```

= if "" != "" {
    opts_exclusive `"wrap(`wrap') `fvwrap'"
    local fvwrap fvwrap(`wrap')
}
- if ``nolabel``label'' != "" {
= if "" != "" {
    opts_exclusive ``nolabel' `label''
    opts_exclusive ``nofvlabel' `fvlable'
    opts_exclusive ``nolabel' `fvlable'
    opts_exclusive ``nofvlabel' `label'
    if ``nolabel'' != "" {
        local fvlable nofvlabel
    }
    else {
        local fvlable fvlable
    }
}
- else local fvlable `nofvlabel' `fvlable'
= else local fvlable
- local type `coeflegend' `selegend'
= local type
- opts_exclusive ``type' `standardized'
= opts_exclusive "

```

```

> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'' != "" {
= while ``'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____

```

```

- if (```rowmatrix''=="" & ``norowci''!="") {
= if (`""=="" & ""!="") {
    di as err "{bf:norowci} requires {bf:rowmatrix()}"
    exit 198

```

```

}
- if ("`dftable'" != "" & "`norowci'" != "") {
= if ("'" != "" & "'" != "") {
    di as err "{bf:norowci} is not allowed with {bf:`dftable'}"
    exit 198
}
- if ("`dfonly'" != "" & "`norowci'" != "") {
= if ("'" != "" & "'" != "") {
    di as err "{bf:norowci} is not allowed with {bf:`dfonly'}"
    exit 198
}
- if ("`noci'" != "" & "`norowci'" != "") {
= if ("'" != "" & "'" != "") {
    di as err "{bf:norowci} is not allowed with {bf:`noci'}"
    exit 198
}
- if "`standardized'" != "" & "`bstdmatrix'" != "" {
= if "" != "" & "" != "" {
    local beta beta
    local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
- local type `beta' `noci' `nopvalues' `dftable' `dfonly' `gro
> ups' `dfci' `dfpvalues'
= local type
-
- opts_exclusive "`type'"
= opts_exclusive ""

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `""`opts""' != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``first' `nofirst''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``first' `showeqns''
    = opts_exclusive " showeqns"
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts showeqns
    - local n 0
    - while ```opts''' != "" {
    = while `"showeqns"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
        = gettoken item1 opts : opts, bind
        - }
        - while ```opts''' != "" {
        = while `''' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
            - }
        - if `n' < 2 {
        = if 1 < 2 {

```

```

- exit


---


> _____ end opts_exclusiv
> e _____
- local cnsreport `cnsreport` `fullcnsreport'
= local cnsreport nocnsreport
- opts_exclusive "`cnsreport`"
= opts_exclusive "nocnsreport"


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts nocnsreport
- local n 0
- while `"`opts`"" != "" {
= while `"`nocnsreport`"" != "" {
- local ++n
- gettoken item`n` opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `"`opts`"" != "" {
= while `""` != "" {
- local ++n
- gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 1 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if `"`showeqns`"" != "" {
= if `"`showeqns`" != "" {
- local nofirst nofirst
- }
- if `"`ematrix` `noeqcheck`"" == "" {
= if `"`noeqcheck`" == "" {
- if `"`e(error)`"" == "matrix" {
local ematrix e(error)
}
}
- _get_mcompare, `options'
= _get_mcompare, mcompare(noadjust ) fvwrap(1)

```

```

> ----- begin _get_mcompar
> e -----
      - version 11
      - local cmd `"`e(cmd)`""
      = local cmd `regress``
      - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", "`cmd`", "`caller`") |
> inlist("pwmean", "`cmd`", "`caller`")
      = local is_pwc = inlist("pwcompare", "regress", "") | inlist
> ("pwmean", "regress", "")
      - local is_marg = inlist("margins", "`cmd`", "`e(cmd2)`", ``
> caller`)
      = local is_marg = inlist("margins", "regress", "", "")
      - local OPTIONS NOADJust BONferroni DUNCan DUNNett SCheffe S
> IDak SNK TUKey ADJustall
      - if `is_pwc` {
      = if 0 {
          syntax [name] [, `OPTIONS` MCOMPar(string) *]
          }
      - else {
      - syntax [name] [, MCOMPar(string) *]
      - local suboption mcompare()
      - }
      - sreturn clear
      - sreturn local options `options``
      = sreturn local options `fvwrap(1)`
      - if `is_pwc` {
      = if 0 {
          local METHOD `noadjust` `bonferroni` `duncan` `dunnett` `s
> cheffe` `sidak` `snk` `tukey`
          local METHOD : list uniq METHOD
          opts_exclusive "`METHOD`"
          local ALL `adjustall`
          opts_exclusive "`noadjust` `ALL`"
          }
      - local 0 `", `mcompare``
      = local 0 `", noadjust``
      - capture syntax [, `OPTIONS`]
      = capture syntax [, NOADJust BONferroni DUNCan DUNNett SCheffe]
> fe SIDak SNK TUKey ADJustall]
      - if c(rc) {
          di as err "invalid mcompare() option;"
          di as err "method `mcompare` not allowed"
          error 198
          }
      - local METHOD `METHOD` `noadjust` `bonferroni` `duncan` `du

```

```

> nnett' `scheffe' `sidak' `snk' `tukey'
= local METHOD noadjust
- local METHOD : list uniq METHOD
- local ALL `ALL' `adjustall'
= local ALL
- local ALL : list uniq ALL
- opts_exclusive "`METHOD'" `suboption'
= opts_exclusive "nadjust" mcompare()

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts noadjust
    - local n 0
    - while `"`opts`"' != "" {
    = while `"`nadjust`"' != "" {
        - local ++n
        - gettoken item`\n' opts : opts, bind
        = gettoken item1 opts : opts, bind
        - }
        - while `"`opts`"' != "" {
        = while `""' != "" {
            local ++n
            gettoken item`\n' opts : opts, bind
            }
        - if `n' < 2 {
        = if 1 < 2 {
            - exit
    _____ end opts_exclusiv
> e _____
    - if `"`METHOD`"' == "" {
    = if "nadjust" == "" {
        if `"`ALL`"' != "" {
            di as err "multiple comparison method required with the ad
> justall option"
            exit 198
        }
        local METHOD noadjust
        local noadjust noadjust
    }
    - opts_exclusive "`ALL' `nadjust'" `suboption'
    = opts_exclusive " nadjust" mcompare()

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts noadjust
    - local n 0
    - while `""`opts""' != ""' {
    = while `""`noadjust""' != ""' {
        - local ++n
        - gettoken item`n' opts : opts, bind
        = gettoken item1 opts : opts, bind
        - }
        - while `""`opts""' != ""' {
        = while `""' != ""' {
            local ++n
            gettoken item`n' opts : opts, bind
            }
        - if `n' < 2 {
        = if 1 < 2 {
        - exit
    _____ end opts_exclusiv
> e _____
    - local EXCLUDE duncan dunnett snk tukey
    - if `:list METHOD in EXCLUDE' {
    = if 0 {
        if `is_pwc' {
        local opt : copy local METHOD
        }
        else {
        local opt "mcompare(`METHOD')"
        }
        local cmdlist anova manova regress mvreg pwmean
        if "`cmd'" == "pwcompare" {
        local cmd `"`e(cmd_est)''''
        }
        if `is_marg' {
        local cmd margins
        }
        if !`:list cmd in cmdlist' | !`is_pwc' {
        di as err `method `opt' is not allowed with results from
    > `cmd''''
        exit 322
        }
        if `"`e(prefix)''' == "svy" {

```

```

        di as err `"method `opt' is not allowed with results using
> the svy prefix"
            exit 322
        }
    local vce ```e(vce)''
    if !inlist(``vce'', "", "ols") {
        di as err `"method `opt' is not allowed with results using
> vce(`vce')"'
            exit 322
        }
    }
- local EXCLUDE duncan dunnett snk tukey scheffe
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if ``ALL'' != "" {
        di as err `option adjustall is not allowed with method `M
> ETHOD'''
            exit 198
        }
    }
- sreturn local method ```METHOD''
= sreturn local method `noadjust'
- sreturn local adjustall ```ALL''
= sreturn local adjustall `'''



---


> _____ end _get_mcompar
> e _____
    - local method ```s(method)''
    = local method `noadjust'
    - local all ```s(adjustall)''
    = local all `'''
    - local options ```s(options)''
    = local options `fvwrap(1)'
    - if ``method'' != "noadjust" {
    = if "noadjust" != "noadjust" {
        local keepmc 1
    }
    - opts_exclusive ``all' `groups''
    = opts_exclusive " "



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts

```

```

- local n 0
- while `"$`opts`$` != "" {
= while `"$` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
    }
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if "`method`" == "dunnett" {
= if "noadjust" == "dunnett" {
    opts_exclusive "`method` `groups`"
}
- _get_diopts diopts options, `options` `fvwrap` `fvlable
= _get_diopts diopts options, fvwrap(1)


---


> _____ begin _get_diopt
> s _____
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options`
= GetDiopts diopts options, fvwrap(1)


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS` *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *)
- opts_exclusive "`allbaselevels` `noallbaselevels`"
= opts_exclusive " "

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "
_____

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "
_____

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``f xlabel' `no f xlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {

```

```

= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``noci' `nopvalues''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____

```

```

- opts_exclusive "`versus` `compare`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev` `noabbrev`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels`
= local allbaselevels
- local baselevels `baselevels` `nobaselevels`
= local baselevels

```

```

- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- } else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}

```

```

}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat `"sformat(`sformat')""'
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat `"pformat(`pformat')""'
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```
> _____ begin _get_diopts.Wrapo
> n _____
```

```

- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width'' fvrapon
= opts_exclusive " " fvrapon

```

```
> _____ begin opts_exclusiv
> e _____
```

```
- version 8.2
```

```

    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
    - local fvrapon `word' `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }

```

```

> _____ end _get_diopts.Wrapo
> n _____
    - if "`fvwrap'" != "" {
    = if "fvwrap(1)" != "" {
    - FVWrap, `fvwrap'
    = FVWrap, fvwrap(1)

```

```

> _____ begin _get_diopts.FVWra
> p _____
    - syntax, fvwrap(integer)
    - if `fvwrap' < 0 {
    = if 1 < 0 {
        di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; "
    > "nonnegative integer required{p_end}"
        exit 198
    }

```

```

> _____ end _get_diopts.FVWra
> p _____
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a

```

```

> bbrev'
      = c_local diopts                      fvwrap(1)
      - if `K' == 2 {
      = if 2 == 2 {
      - c_local `c_opts' ``options''
      = c_local options `"""
      - }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
      - c_local `name1' ``diopts'''
      = c_local diopts `fvwrap(1)"
      - local snames : s(macros)
      - foreach sname of local snames {
      - local S_`sname' = s(`sname')
      = local S_level = s(level)
      - }
      - local S_`sname' = s(`sname')
      = local S_method = s(method)
      - }
      - local S_`sname' = s(`sname')
      = local S_options = s(options)
      - }
      - sreturn clear
      - GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
      - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE

```

```

> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV */
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels''

```

```
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``emptycells' `noemptycells''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``fvlable' `nofvlabel''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> e _____ end opts_exclusiv
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
```

```

        if fmtwidth(```cformat''') > 9 {
            local cformat "%9.0g"
            di "{txt}note: invalid cformat(), using default"
        }
        sreturn local cformat ```cformat'''
        local cformat ```cformat(`cformat')'''
    }
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat ```sformat(`sformat')'''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat ```pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIidth]
    - if c(rc) {
        di as err "invalid fvrapon() option;"
        syntax [, WOrd WIidth]
        exit 198
    }

```

```

- opts_exclusive ``word' `width'' fwrapon
= opts_exclusive " " fwrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if ```fwrap''' != "" {
    = if "" != "" {
        FVWrap, `fwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `fwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' ```options'''"
    }
    - sreturn local coding `coding'
    = sreturn local coding

```

```

    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95

```

```

> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2"" == "" {
    = if `""options"" == "" {
        GetDiopts DUPs, `options'
    }
    - else {
    - GetDiopts DUPs options, `options'
    = GetDiopts DUPs options,

```

```

> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "``allbaselevels' `noallbaselevels''"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
```

```
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `"$`opts`$` != "" {
= while `"$`! = "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts`$` != "" {
= while `"$`! = "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts`$` != "" {

```

```

        = while `""' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit
    
```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
    - local allbaselevels `allbaselevels' `noallbaselevels'
    = local allbaselevels
    - local baselevels `baselevels' `nobaselevels'
    = local baselevels
    - local emptycells `emptycells' `noemptycells'
    = local emptycells
    - local omitted `omitted' `noomitted'
    = local omitted
    - local lstretch `lstretch' `nolstretch'
    = local lstretch
    - local f xlabel `f xlabel' `nof xlabel'
    = local f xlabel
    - local abbrev `abbrev' `noabbrev'
    = local abbrev
    - if "`allbaselevels` `baselevels'" == "" {

```

```

= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if ``emptycells'' == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if ``omitted'' == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if ``lstretch'' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat''
    local cformat `"cformat(`cformat')"'
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat''
    local sformat `"sformat(`sformat')"'
}

```

```

- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"`pformat'"') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `"`pformat'"
    local pformat `"pformat(`pformat')"'
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

    - exit


---


> _____ end opts_exclusiv
> e _____
    - local fvrapon `word` `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }



---


> _____ end _get_diopts.Wrapo
> n _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts` `leveLOPT` `vsquish` `allbaselevels'
> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts` `""`options""`
        = c_local options `"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95



---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name2` `""`options""`
    = c_local options `"""
    - }
    - local DUPS : list DUPS - DEFAULT
    - gettoken DUPS : DUPS
    - if `""`DUPS`""` != ""` {
    = if `""` != ""` {

```

```

        if (strpos(```DUPS''', "(")) {
            gettoken DUPS : DUPS, parse("(")
            local DUPS ```DUPS'()"
        }
        di as err "duplicate {bf:`DUPS'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
        - sreturn local `sname' = ```S_`sname''''
        = sreturn local level = ``95'''
        - }
        - sreturn local `sname' = ```S_`sname''''
        = sreturn local method = ``noadjust''
        - }
        - sreturn local `sname' = ```S_`sname''''
        = sreturn local options = ``fvwrap(1)''
        - }


---


> _____ end _get_diopt
> s _____
    - local legend coeflegend selegend
    - local legend : list legend & diopts
    - local diopts : list diopts - legend
    - local lstretch lstretch nolstretch
    - local lstretch : list lstretch & diopts
    - local diopts : list diopts - lstretch
    - local markdown markdown
    - local markdown : list markdown & diopts
    - local diopts : list diopts - markdown
    - _get_diopts ignore, `diopts' `cformat' `sformat' `pformat'
    = _get_diopts ignore, fvwrap(1)


---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options, fvwrap(1)


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP

```

```

> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru)
> FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEG
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive ``allbaselevels' `noallbaselevels''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
      }
      - if `n' < 2 {
      = if 0 < 2 {
          - exit


---


> _____ end opts_exclusiv
> e _____
      - opts_exclusive ``allbaselevels' `nobaselevels''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlable''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
```

```

= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {

```

```

= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if "`lstretch'" == "" {

```

```

= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ````cformat'''
    local cformat ```cformat(`cformat')'''
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(````sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat'''
    local sformat ```sformat(`sformat')'''
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat'''
    local pformat ```pformat(`pformat')'''
}
-
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
-
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;""
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon
_____ begin opts_exclusiv

> _____
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts''' != "" {
= while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
_____ end opts_exclusiv

> _____
> e _____
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
_____ end _get_diopts.Wrapo

> _____
> n _____
    - if ``fvwrap''' != "" {
= if "fvwrap(1)" != "" {
    - FVWrap, `fvwrap'
= FVWrap, fvwrap(1)
_____ begin _get_diopts.FVWra

> _____
> p _____
    - syntax, fvwrap(integer)

```

```

    - if `fwwrap' < 0 {
    = if 1 < 0 {
        di as err "{p}invalid option {bf:fwwrap(`fwwrap')}; "
> "nonnegative integer required{p_end}"
        exit 198
    }



---


> _____ end _get_diopts.FVWra
> p _____
    - }
        - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwwrap' `fwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
        = c_local diopts                      fwwrap(1)
        - if `K' == 2 {
        = if 2 == 2 {
            - c_local `c_opts' `""`options`""
            = c_local options `"""
            - }
            - sreturn local coding `coding'
            = sreturn local coding
            - sreturn local versus `versus'
            = sreturn local versus
            - sreturn local compare `compare'
            = sreturn local compare
            - sreturn local level `level'
            = sreturn local level 95



---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1' `""`diopts`""
    = c_local ignore `""fwwrap(1)`"
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname' = s(`sname')
    = local S_level = s(level)
    - }
    - local S_`sname' = s(`sname')
    = local S_options = s(options)
    - }
    - local S_`sname' = s(`sname')
    = local S_method = s(method)
    - }
    - sreturn clear

```

```

- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITTED OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```

> e -----
    - opts_exclusive ``coeflegend' `selegend''
    = opts_exclusive " "
-----
> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
-----
> ----- end opts_exclusiv
> e -----
    - opts_exclusive ``noci' `nopvalues''
    = opts_exclusive " "
-----
> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
-----
> ----- end opts_exclusiv
> e -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''

```

```
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts`""' != "" {
  = while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``versus' `compare''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts`""' != "" {
  = while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``abbrev' `noabbrev''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ```allbaselevels'`baselevels'`` == "" {
= if `""` == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if ```emptycells'`` == "" {
= if `""` == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if ```omitted'`` == "" {

```

```

= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if `lstretch' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat "cformat(`cformat')"
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`sformat') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `sformat'
    local sformat "sformat(`sformat')"
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`pformat') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `pformat'
    local pformat "pformat(`pformat')"
}
-
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {

```

```

= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while ``''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrapon'' != "" {
= if "" != "" {

```

```

        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""`options"""
        }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2""` == "" {
    = if `""` == "" {
    - GetDiopts DUPs, `options'
    = GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---



```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "
_____

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "
_____

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``f xlabel' `no f xlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {

```

```

= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``noci' `nopvalues''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____

```

```
- opts_exclusive ``versus' `compare''  
= opts_exclusive " "  


---



> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while ```opts''' != "" {  
= while `''' != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---



> _____ end opts_exclusiv  
> e _____  
- opts_exclusive ``abbrev' `noabbrev''  
= opts_exclusive " "  


---



> _____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while ```opts''' != "" {  
= while `''' != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---



> _____ end opts_exclusiv  
> e _____  
- local allbaselevels `allbaselevels' `noallbaselevels'  
= local allbaselevels  
- local baselevels `baselevels' `nobaselevels'  
= local baselevels


```

```

- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- } else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}

```

```

        }
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat `sformat(`sformat')''''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat `pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width'' fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2

```

```

    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
    - local fvrapon `word' `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }

```

```

> _____ end _get_diopts.Wrapo
> n _____
    - if `fvwrap' != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""`options""'
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95

```

```

> _____ end _get_diopts.GetDiopt
> s _____
    - }
    - else {
        GetDiopts DUPs options, `options'
        c_local `name2' ``options''
    }
    - local DUPs : list DUPs - DEFAULT
    - gettoken DUPs : DUPs
    - if ``DUPs'' != "" {
    = if "" != "" {
        if (strpos(```DUPs'', "(")) {
            gettoken DUPs : DUPs, parse("(")
            local DUPs ``DUPs'()''
        }
        di as err "duplicate {bf:`DUPs'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = ``$_`sname''
    = sreturn local level = `95'
    - }
    - sreturn local `sname' = ``$_`sname''
    = sreturn local options = `fvwrap(1)'
    - }
    - sreturn local `sname' = ``$_`sname''
    = sreturn local method = `noadjust'
    - }

_____

```

```

> _____ end _get_diopt
> s _____
    - local cformat ``$(_cformat)'
    = local cformat `'
    - local sformat ``$(_sformat)'
    = local sformat `'
    - local pformat ``$(_pformat)'
    = local pformat `'
    - _get_eformopts , eformopts(`options') allowed(_all_) sopti
> ons
    = _get_eformopts , eformopts() allowed(_all_) soptions

_____

```

```

> _____ begin _get_eformopt
> s _____
    - version 8.0

```

```

    - syntax [, eformopts(string asis) soptions ALLOWed(string)
> ]
        - local 0 , `eformopts'
        = local 0 ,
        - local EFALL NOHR hr NOSHR shr or IRR RRr tr TRatio
        - if "`soptions'" != "" {
        = if "soptions" != "" {
            - syntax [, EForm1(passthru) EForm `EFALL' * ]
            = syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR
> RRr tr TRatio * ]
                - local opts `""`options""'
                = local opts `"""
                - local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or'
> `irr' `rrr' `tr' `tratio'
                = local 0 ,
                - }
                - if "`allowed'" == "__all__" {
                = if "__all__" == "__all__" {
                    - local allowed `EFALL'
                    = local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
                    - }
                    - foreach ef of local allowed {
                    - capture confirm name `ef'
                    = capture confirm name NOHR
                    - if _rc {
                        di as err "`ef' is not a valid name"
                        exit 198
                    }
                    - local efopts `efopts' `=lower(``ef``)'
                    = local efopts nohr
                    - }
                    - capture confirm name `ef'
                    = capture confirm name hr
                    - if _rc {
                        di as err "`ef' is not a valid name"
                        exit 198
                    }
                    - local efopts `efopts' `=lower(``ef``)'
                    = local efopts nohr hr
                    - }
                    - capture confirm name `ef'
                    = capture confirm name NOSHR
                    - if _rc {
                        di as err "`ef' is not a valid name"
                        exit 198
                    }

```

```
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr
- }
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr
- }
- capture confirm name `ef'
= capture confirm name or
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or
- }
- capture confirm name `ef'
= capture confirm name IRR
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr
- }
- capture confirm name `ef'
= capture confirm name RRR
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr
- }
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
```

```

= local efopts nohr hr noshr shr or irr rrr tr
- }
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr tratio
- }
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- if ```eform1'``=="Odds ratio" {
= if `````=="Odds ratio" {
    local eform_cons_ti = "Odds"

```

```

local eform_cons_note = "odds ratios"
}
- else if `"`eform1`""==="Haz. ratio" {
= else if `""'=="Haz. ratio" {
    local eform_cons_ti = "Hazard"
    local eform_cons_note = "hazard ratios"
}
- else if `"`eform1`""==="Time ratio" {
= else if `""'=="Time ratio" {
    local eform_cons_ti = "Time"
    local eform_cons_note = "time ratios"
}
- else if `"`eform1`""==="IRR" {
= else if `""'=="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_ti2 = "incidence rate"
}
- else if `"`eform1`""==="Risk ratio" {
= else if `""'=="Risk ratio" {
    local eform_cons_ti = "Risk"
    local eform_cons_note = "risk ratios"
}
- else if `"`eform1`""==="Hlth ratio" {
= else if `""'=="Hlth ratio" {
    local eform_cons_ti = "Health"
    local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {
= if 0 {
    opts_exclusive "`eform'"
    if `:length local eform1' {
        opts_exclusive "eform() `eform'"
    }
}
- if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"

```

```

local eform_cons_ti = "Subhazard"
local eform_cons_note = "subhazard ratios"
}
else if ("`eform'"=="tr") {
local eform1 = "Time ratio"
local eform_cons_ti = "Time"
local eform_cons_note = "time ratios"
}
else if ("`eform'"=="tratio") {
local eform1 = "Time ratio"
local eform_cons_ti = "Time"
local eform_cons_note = "time ratios"
}
else if ("`eform'"=="or") {
local eform1 = "Odds ratio"
if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(
> cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_ti2 = "relative risk"
}
else {
local eform_cons_ti = "Odds"
local eform_cons_note = "odds ratios"
}
}
else if ("`eform'"=="irr") {
local eform1 = "IRR"
local eform_cons_ti = "Inc. rate"
local eform_cons_note = "incidence-rate ratios"
local eform_cons_ti2 = "incidence rate"
}
else if ("`eform'"=="rrr") {
local eform1 = "RRR"
local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_ti2 = "relative risk"
}
else if ("`eform'"!="nohr" & "`eform'"!="noshr") {
local eform1 = upper("`eform'")
}
}
-
sreturn clear
-
sreturn local options `"`opts`"'
=
sreturn local options `""'
-
sreturn local opt `eform'

```

```

= sreturn local opt
- sreturn local str `eform1'
= sreturn local str
- if ```eform1''' != "" {
= if ```' != "" {
    sreturn local eform eform(```eform1'''')
}
- else sreturn local eform ""
- sreturn local eform_cons_ti `eform_cons_ti'
= sreturn local eform_cons_ti
- sreturn local eform_cons_note `eform_cons_note'
= sreturn local eform_cons_note
- sreturn local eform_cons_ti2 `eform_cons_ti2'
= sreturn local eform_cons_ti2


---


> _____ end _get_eformopt
> s _____
- local tr_item = ```s(eform_cons_note)''''
= local tr_item = ""
- if inlist(``bmatrix'', "", "e(b)") & ```e(k_eform)''' == "0" {
= if inlist("", "", "e(b)") & "" == "0" {
    local eform
}
- else local eform ```s(str)''''
= else local eform `""'
- local eform_cons_ti ```s(eform_cons_ti)''''
= local eform_cons_ti `""'
- local eform_cons_ti2 ```s(eform_cons_ti2)''''
= local eform_cons_ti2 `""'
- if ("`e(consonly)'''!= "1" | ```eform_cons_ti'''== "") {
= if (""!= "1" | ```'== "") {
- local eformdi ```s(str)''''
= local eformdi `""'
- }
- else {
    local eformdi ```eform_cons_ti''''
    local tr_item = cond(missing(``eform_cons_ti2''), strlower(``eform_cons_ti''), ```eform_cons_ti2'')
}
- local coefttl = cond(```eform'''== `""', ```coeftitle'''', ```'
> eformdi'''')
= local coefttl = cond(`""'== `""', `""', `""')
- local options ```s(options)''''
= local options `""'
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)

```

```

> _____ begin _get_diparmopts
> s _____
    - if _caller() < 8.2 {
        _get_diparmopts_8 `0'
        exit
    }
    - version 9
    - local version : di "version " string(_caller()) ":""
    - syntax [, diparmopts(string asis) EXECute options bottom
> plus SYNTAXonly * ]
    - local goptions `options'
    = local goptions level(95)
    - SpliceGlobals junk , `goptions'
    = SpliceGlobals junk , level(95)

```

```

> _____ begin _get_diparmopts.SpliceGlobal
> s _____
    - syntax name(id="macro name" name=c_diparm) [, diparm(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
        - if `"`dof`"" == "" & `e(df_r)`"" != "" {
        = if `""` == "" & `210`"! = "" {
            - capture confirm integer number `e(df_r)`
            = capture confirm integer number 210
            - if !c(rc) {
            - local gdof dof(`e(df_r)')
            = local gdof dof(210)
            - }
            - capture
            - }
            - else local gdof `"`dof`"""
            = else local gdof `""`
            - local glevel `level'
            = local glevel 95
            - local lopt level(`glevel')
            = local lopt level(95)
            - if (`"`diparm`"" == "") exit
            = if (`""` == "") exit

```

```

> _____ end _get_diparmopts.SpliceGlobal
> s _____
    - local 0 `", `diparmopts`"""
    = local 0 `", ""
    - local diparmopts
    - local k 0
    - syntax [, diparm(string asis) * ]

```

```

- while `"`diparm`"" != "" {
= while `""' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm `"`s(before)`""'
        local after `"`s(after)`""'
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `gopt
> ions'
    local diparm`k' `"`diparm`""'
    local diparmopts `"`diparmopts' : `diparm`""'
    if `single' | `":list retok after`"" == "" {
        local 0 `", `options`""'
        syntax [, diparm(string asis) * ]
    }
    else {
        local diparm `"`after`""'
    }
- if `"`options`"" == "" {
= if `""' == "" {
- syntax [, diparm(string asis) ]
- }
- if (`execute`" == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options `"`options`""'
= sreturn local options `""'
- sreturn local diparm `"`diparmopts`""'
= sreturn local diparm `""'
- forval i = 1/`k' {
= forval i = 1/0 {
        sreturn local diparm`i' `"`diparm`i`""'
    }
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
    - local NODIPARM : length local nodiparm

```

```

- if `NODIPARM' {
= if 8 {
- local options
- }
- local GTOPTS parse("::") bind quotes
- local k 0
- if !`NODIPARM' {
= if !8 {
if ``e(diparm)''' != "" {
local i 0
local diparm ``e(diparm)''''
}
else if ``e(diparm1)''' != "" {
local i 1
local diparm ``e(diparm1)''''
}
while `:length local diparm' {
gettken diparm rest : diparm, `GT_OPTS'
while `:length local rest' {
local ++k
local diparm`k' : copy local diparm
gettken COLON rest : rest, `GT_OPTS'
gettken diparm rest : rest, `GT_OPTS'
}
local ++k
local diparm`k' : copy local diparm
local ++i
local diparm ``e(diparm`i)''''
}
}
- if `:length local options' {
= if 0 {
local 0 `", `options''''
syntax [, diparm(string asis) *]
if `k' & `:length local diparm' {
local ++k
local diparm`k' __sep__
}
while `:length local diparm' {
gettken diparm rest : diparm, `GT_OPTS'
while `:length local rest' {
local ++k
local diparm`k' : copy local diparm
gettken COLON rest : rest, `GT_OPTS'
gettken diparm rest : rest, `GT_OPTS'
}
}

```

```

    local ++k
    local diparm`k' : copy local diparm
    local 0 `", `options``'
    syntax [, diparm(string asis) *]
}
}
}
- if "`markdown'" != "" {
= if "" != "" {
    local lsize = c(linesize)
    set linesize 255
}
- `vv' mata: _coef_table()
= version 11, missing: mata: _coef_table()



---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options, fvwrap(1)



---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - opts_exclusive ``cnsreport' `fullcnsreport''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``noci' `nopvalues''  
      = opts_exclusive " "
```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding' `compare'"
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'

```

```

= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`sformat') > 8 {

```

```

local sformat "%8.2f"
di "{txt}note: invalid sformat(), using default"
}
sreturn local sformat `"`sformat`"
local sformat `"$format(`sformat')`"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"`pformat`") > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `"`pformat`"
    local pformat `"$format(`pformat')`"
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

> _____ begin _get_diopts.Wrapo

> n _____

```

- capture syntax [, WOrd WIth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

> _____ begin opts_exclusiv

> e _____

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`" != "" {

```

```

        = while `""' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
      - local fvrapon `word' `width'
      = local fvrapon
      - if `:length local fvrapon' {
      = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
      }


---


> _____ end _get_diopts.Wrapo
> n _____
      - if "`fvwrap'" != "" {
      = if "fvwrap(1)" != "" {
      - FVWrap, `fvwrap'
      = FVWrap, fvwrap(1)


---


> _____ begin _get_diopts.FVWra
> p _____
      - syntax, fvwrap(integer)
      - if `fvwrap' < 0 {
      = if 1 < 0 {
        di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; "
> "nonnegative integer required{p_end}"
        exit 198
      }


---


> _____ end _get_diopts.FVWra
> p _____
      - }
      - c_local `c_diopts' `leavelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> bbrev'
      = c_local diopts           fvwrap(1)
      - if `K' == 2 {
      = if 2 == 2 {
      - c_local `c_opts' `""`options""'

```

```

= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1` ``diopts"""
= c_local __00000B `fvwrap(1)"
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_k = s(k)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``f xlabel' `no f xlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
```

```

- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`abbrev' `noabbrev'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - local allbaselevels `allbaselevels' `noallbaselevels'
  = local allbaselevels
  - local baselevels `baselevels' `nobaselevels'
  = local baselevels
  - local emptycells `emptycells' `noemptycells'
  = local emptycells
```

```

- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}
- if `:length local sformat' {

```

```

= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat'''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `"$sformat(`sformat')"'"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat'''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `"$pformat(`pformat')"'"
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____

```

```

- capture syntax [, WOrd WIth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

        = local opts
        - local n 0
        - while `""`opts"" != "" {
        = while "" != "" {
            local ++n
            gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
            - exit
        }

> _____ end opts_exclusiv
> e _____
        - local fvrapon `word' `width'
        = local fvrapon
        - if `:length local fvrapon' {
        = if 0 {
            c_local fvrapon fvrapon(`fvrapon')
        }

> _____ end _get_diopts.Wrapo
> n _____
        - if "`fvwrap'" != "" {
        = if "" != "" {
            FVWrap, `fvwrap'
        }
        - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
        = c_local DEFAULT
        - if `K' == 2 {
        = if 1 == 2 {
            c_local `c_opts' `""`options""'
        }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95

> _____ end _get_diopts.GetDiopt

```

```

> s _____
- if ``name2`` == "" {
= if "" == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,
_____
> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts`` != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv

```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``baselevels' `nobaselevels''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``emptycells' `noemptycells''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``lstretch' `nolstretch''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``cnsreport' `fullcnsreport''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```

> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``abbrev' `noabbrev''

```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local allbaselevels `allbaselevels' `noallbaselevels'
    = local allbaselevels
    - local baselevels `baselevels' `nobaselevels'
    = local baselevels
    - local emptycells `emptycells' `noemptycells'
    = local emptycells
    - local omitted `omitted' `noomitted'
    = local omitted
    - local lstretch `lstretch' `nolstretch'
    = local lstretch
    - local fvlabel `fvlabel' `nofvlabel'
    = local fvlabel
    - local abbrev `abbrev' `noabbrev'
    = local abbrev
    - if "`allbaselevels` `baselevels'" == "" {
    = if "" == "" {
        - if c(showbaselevels) == "all" {
            local allbaselevels allbaselevels
        }
    - else if c(showbaselevels) == "on" {
            local baselevels baselevels
        }
    - }
    - if "`emptycells'" == "" {
    = if "" == "" {
        - if c(showemptycells) == "off" {

```

```

    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')"
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')"
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `pformat(`pformat')"
}
-
- if `K' == 1 & `:length local options' {

```

```

= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}

```

```

> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> bbrev'
= c_local DUPs
- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts' `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95
_____
> _____ end _get_diopts.GetDiopt
> s _____
- }
- else {
  GetDiopts DUPs options, `options'
  c_local `name2' `""`options"""
}
- local DUPs : list DUPs - DEFAULT
- gettoken DUPs : DUPs
- if `""`DUPs''' != "" {
= if `"""' != "" {
  if (strpos(`""`DUPs'''", "(")) {
    gettoken DUPs : DUPs, parse("(")
    local DUPs `""`DUPs'()"'
  }
  di as err "duplicate {bf:`DUPs'} option not allowed"
  exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = `""`S_`sname"""

```

```

= sreturn local level = `"95"
- }
- sreturn local `sname' = ```$`sname'''
= sreturn local k = `"0"
- }



---


> _____ end _get_diopt
> s _____
- if "`markdown'" != "" {
= if "" != "" {
    set linesize `lsize'
}
- if "`eqselect'" == "" & "`eformnote'" != "noeformnote" {
= if "" == "" & "" != "noeformnote" {
- if `"`eformdi'"'!="" & ("`e(cmd)'"!="gnbreg" | "`e(prefix)'""
> == "svy") {
= if ""'!="" & ("regress"!="gnbreg" | ""== "svy") {
    local k_eform `r(k_eform)'
    if ("`k_eform'"=="") {
        local k_eform = 1
    }
    local k_eq `e(k_eq)'
    if ("`k_eq'"=="") {
        local k_eq = 1
    }
    if (`k_eform'<`k_eq' & `k_eform') {
        if ("`e(cmd2)'" == "stintreg" | "`e(cmd2)'" == "streg") & (
> `e(cmd)'" == "weibull" | "`e(cmd)'" == "gompertz") {
            }
            else {
                _eform_multeq_note efnote : `k_eform' ``tr_item'''
                di as txt "`efnote'"
            }
        }
    }
- if (`"`eformdi'"'!="" & "`e(noconstant)'"=="0" & `"`eform_co
> ns_ti'"'!="" & "`e(consonly)'"!="1") {
= if (`""'!="" & ""=="0" & `""'!="" & ""!="1") {
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local asvar = ```e(ranvars)``e(fixvars)``e(indvars)''' != ""
            if `"`e(casevars)'"' != "" & `asvar' {
                local note1 "Exponentiated coefficients represent odds ratio
> s for "
                local note2 "alternative-specific variables (first equation)
> and "

```

```

local note3 "{help j_cmrisk##|_new:relative-risk ratios} "
local note4 "for case-specific variables."
di as txt "{p 0 6 2}Note: `note1``note2``note3``note4'{p_end
> }"
}
}
if "`eform_cons_ti'" == "Inc. rate" {
local eform_cons_note "incidence rate"
}
else if "`eform_cons_ti'" == "Rel. risk" {
local eform_cons_note "relative risk"
}
else if "`eform_cons_ti'" == "Health" {
local eform_cons_note "health (probability of no disease)"
}
else {
local eform_cons_note = strtolower("`eform_cons_ti'`")
}
local eform_cons_note "baseline `eform_cons_note'"
if ("`e(cmd2)'"=="") {
local cmd `e(cmd)'
}
else {
local cmd `e(cmd2)'
}
local f2 = udssubstr("`cmd'",1,2)
local is_re = ("`f2'"=="xt" | "`f2'"=="me")
if `is_re' {
local extranote " (conditional on zero random effects)"
}
di as txt "{p 0 6 2}Note: {bf:_cons} estimates " ``eform_con
> s_note``extranote'" _c
    if ("`e(cmd)'"=="mlogit" | "`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
        di as txt " for each outcome" _c
    }
    di as txt ".{p_end}"
}
-
-
return add
if !`keepmc' {
= if !0 {
-
return local mcmethod
-
return local mctitle
-
}

```

```

> _____ end _coef_table
> e _____
> _____ end _ereturn_displa
> y _____
    - mat `b1' = (1/`mean')*e(b)
    = mat __000008 = (1/__000003)*e(b)
    - mat score double `xb' = `b1' `if'
    = mat score double __000006 = __000008 if __000002
    - LikePois `y' `xb' `poff' [`weight``exp'] `if', n(`nobs')
    = LikePois piq_timing_max __000006 [] if __000002, n(__000004)

> _____ begin poisson.LikePoi
> s _____
    - gettoken y 0 : 0
    - gettoken xb 0 : 0
    - syntax [fw aw pw iw] [if], Nobs(string)
    - if "`weight'"!="`" {
    = if ""!=`" {
        if "`weight'"=="fweight" {
            local wt `"[fw`exp']"
        }
        else if "`weight'"=="iweight" {
            local wt `"[iw`exp']"
        }
        else local wt `"[aw`exp']"
    }
    - tempvar lnf
    - qui gen double `lnf' = `y'*(`xb')-exp(`xb')-lngamma(`y'+1) `if
> '
    = qui gen double __00000B = piq_timing_max*(__000006)-exp(__000006)-lngamma(piq_timing_max+1) if __000002
    - summarize `lnf' `wt' `if', meanonly
    = summarize __00000B if __000002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)

> _____ end poisson.LikePoi
> s _____
    - scalar `lnf1' = r(lnf)
    = scalar __00000A = r(lnf)

```

```

    - }
    - if "`constan'"==" {
    = if ""==" {
    - SolveC `y' `xb'`poff' [`weight``exp'] `if', n(`nobs') mean(`mean
> ')
        = SolveC piq_timing_max __000006 [] if __000002, n(__000004) mean(
> __000003)
    -----
> _____ begin poisson.Solve
> C _____
    - gettoken y 0 : 0
    - gettoken xb 0 : 0
    - syntax [fw aw pw iw] [if] , Nobs(string) Mean(string)
    - if "`weight'"=="pweight" {
    = if ""=="pweight" {
        local weight "aweight"
    }
    - capture confirm variable `xb'
    = capture confirm variable __000006
    - if _rc {
        tempvar xbnew
        qui gen double `xbnew' = (`xb') `if'
        local xb `xbnew'
    }
    - summarize `xb' [`weight``exp'] `if', meanonly
    = summarize __000006 [] if __000002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - if r(max) - r(min) > 2*709 {
        exit
    }
    - if r(max) > 709 | r(min) < -709 {
        tempname shift
        if r(max) > 709 { scalar `shift' = 709 - r(max) }
        else scalar `shift' = -709 - r(min)
        local shift "+`shift'"
    }
    - tempvar expoff
    - qui gen double `expoff' = exp(`xb'`shift') `if'
    = qui gen double __00000B = exp(__000006) if __000002
    - summarize `expoff' [`weight``exp'], meanonly
    = summarize __00000B [], meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - return scalar _cons = ln(`mean')-ln(r(mean))`shift'
    = return scalar _cons = ln(__000003)-ln(r(mean))

```

```

> _____ end poisson.Solve
> C _____
    - tempfile c
    - scalar `c' = r(_cons)
    = scalar __00000B = r(_cons)
    - if `c'<. {
    = if __00000B<. {
    - local c "+`c'"
    = local c "+__00000B"
    - }
    - else local c
    - LikePois `y' `xb' `poff' `c' [`weight' `exp'] `if', n(`nobs')
    = LikePois piq_timing_max __000006+__00000B [] if __000002, n(__00
> 0004)


---


> _____ begin poisson.LikePoi
> s _____
    - gettoken y 0 : 0
    - gettoken xb 0 : 0
    - syntax [fw aw pw iw] [if], Nobs(string)
    - if "`weight'"!="`if" {
    = if ""!=`if' {
        if "`weight'"=="fweight" {
        local wt `"[fw`exp']"
        }
        else if "`weight'"=="iweight" {
        local wt `"[iw`exp']"
        }
        else local wt `"[aw`exp']"
        }
    - tempvar lnf
    - qui gen double `lnf' = `y'*(`xb')-exp(`xb')-lngamma(`y'+1) `if
> '
    = qui gen double __00000C = piq_timing_max*(__000006+__00000B)-e
> xp(__000006+__00000B)-lngamma(piq_timing_max+1) if __000002
    - summarize `lnf' `wt' `if', meanonly
    = summarize __00000C if __000002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
        }
    - else ret scalar lnf = r(sum)

```

```

> _____ end poisson.LikePoi
> s _____
    - tempname lnf1c
    - scalar `lnf1c' = r(lnf)
    = scalar __00000C = r(lnf)
    - }
    - else local lnf1c .
    - capture {
    - gen double `z' = `y'*exp(-(`xb'`poff``c'))-1 +`xb'`c' `if'
    = gen double __000007 = piq_timing_max*exp(-(__000006+__00000B))-1
> +__000006+__00000B if __000002
    - `vv' _regress `z' `xvars' [aw=`wt'exp(`xb'`poff``c'))] `if', `con
> stan'
    = version 18, missing: _regress __000007 cb_authors_ext vint_late
> estimated stky_pr_rotemberg stky_pr_calvo open wlth [aw=exp(__000006+__0000
> 0B)] if __000002,
_____
> _____ begin _ereturn_displa
> y _____
    - version 11
    - if "`e(b)'" == "" & "`e(V)'" == ""
    = if "matrix" == "" & "matrix" == ""
        exit
    }
    - if "`e(cmd)'" == "regress" {
    = if "regress" == "regress" {
        - local ALTOPT Beta
    }
    - syntax [, eform(passthru) First neq(integer -1) PLus `ALTOPT'
> *]
    = syntax [, eform(passthru) First neq(integer -1) PLus Beta *]
    - _get_mcompare, `options'
    = _get_mcompare, level(95.00) fwwrap(1)
_____
> _____ begin _get_mcompar
> e _____
    - version 11
    - local cmd `"`e(cmd)`"'
    = local cmd `regress`'
    - syntax [name(name=caller)] [, *]
    - local is_pwc = inlist("pwcompare", "`cmd`", "`caller`") | in
> list("pwmean", "`cmd`", "`caller`")
    = local is_pwc = inlist("pwcompare", "regress", "") | inlist(""
> pwmean", "regress", "")
        - local is_marg = inlist("margins", "`cmd`", "`e(cmd2)`", "`ca
> ller`")

```

```

        = local is_marg = inlist("margins", "regress", "", "")
        - local OPTIONS NOADJust BONferroni DUNCan DUNNett SCHeffe SID
> ak SNK TUKey ADJustall
    - if `is_pwc' {
    = if 0 {
        syntax [name] [, `OPTIONS' MCOMPare(string) *]
    }
    - else {
    - syntax [name] [, MCOMPare(string) *]
    - local suboption mcompare()
    - }
    - sreturn clear
    - sreturn local options `""`options"""
    = sreturn local options `level(95.00) fvwrap(1)"
    - if `is_pwc' {
    = if 0 {
        local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `sch
> effe' `sidak' `snk' `tukey'
        local METHOD : list uniq METHOD
        opts_exclusive "`METHOD'"
        local ALL `adjustall'
        opts_exclusive "`noadjust' `ALL'"
        }
        - local 0 `", `mcompare'"
        = local 0 `", "
        - capture syntax [, `OPTIONS']
        = capture syntax [, NOADJust BONferroni DUNCan DUNNett SCHeffe
> SIDak SNK TUKey ADJustall]
    - if c(rc) {
        di as err "invalid mcompare() option;"
        di as err "method `mcompare'" not allowed"
        error 198
    }
    - local METHOD `METHOD' `noadjust' `bonferroni' `duncan' `dunn
> ett' `scheffe' `sidak' `snk' `tukey'
    = local METHOD
    - local METHOD : list uniq METHOD
    - local ALL `ALL' `adjustall'
    = local ALL
    - local ALL : list uniq ALL
    - opts_exclusive "`METHOD'" `suboption'
    = opts_exclusive "" mcompare()



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if ``METHOD'' == "" {
= if "" == "" {
- if ``ALL'' != "" {
= if "" != "" {
        di as err "multiple comparison method required with the adju
> stall option"
        exit 198
    }
- local METHOD noadjust
- local noadjust noadjust
    -
- opts_exclusive ``ALL' `noadjust'' `suboption'
= opts_exclusive " noadjust" mcompare()


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts noadjust
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
    -
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 1 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local EXCLUDE duncan dunnett snk tukey
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if `is_pwc' {
    local opt : copy local METHOD
    }
    else {
    local opt "mcompare(`METHOD')"
    }
    local cmdlist anova manova regress mvreg pwmean
    if "`cmd'" == "pwcompare" {
    local cmd `"`e(cmd_est)`"'
    }
    if `is_marg' {
    local cmd margins
    }
    if `:list cmd in cmdlist' | !`is_pwc' {
    di as err `"method `opt' is not allowed with results from `c
> md`'"
        exit 322
    }
    if `"`e(prefix)`'" == "svy" {
    di as err `"method `opt' is not allowed with results using t
> he svy prefix`'"
        exit 322
    }
    local vce `"`e(vce)`"'
    if !inlist("`vce'", "", "ols") {
    di as err `"method `opt' is not allowed with results using v
> ce(`vce')`'"
        exit 322
    }
    }
- local EXCLUDE duncan dunnett snk tukey scheffe
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if `ALL' != "" {
    di as err `"option adjustall is not allowed with method `MET
> HOD`'"

```

```

        exit 198
    }
}
-
- sreturn local method `""`METHOD"""
= sreturn local method `"noadjust"
- sreturn local adjustall `""`ALL"""
= sreturn local adjustall `"""

> _____ end _get_mcompar
> e _____
- if "`s(method)`" != "" {
= if "noadjust" != "" {
- loca mcopt mcompare(`s(method)` `s(adjustall)`)
= loca mcopt mcompare(noadjust )
- }
- _get_diopts diopts, `s(options)`
= _get_diopts diopts, level(95.00) fvwrap(1)

> _____ begin _get_diopt
> s _____
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options, level(95.00) fvwrap(1)

> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVRA
> P(passthru) FWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels` `noallbaselevels`"
= opts_exclusive " "

> _____ begin opts_exclusiv

```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while `""`opts"" != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____ end opts_exclusiv  
> e _____  
      - opts_exclusive "`allbaselevels' `nobaselevels'"  
      = opts_exclusive " "  
  
_____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while `""`opts"" != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____ end opts_exclusiv  
> e _____  
      - opts_exclusive "`baselevels' `nobaselevels'"  
      = opts_exclusive " "  
  
_____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while `"$`opts`$`" != "" {
= while `"$`" != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`emptycells` `noemptycells`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts`$`" != "" {
= while `"$`" != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`fvlabel` `nofvlabel`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts`$`" != "" {
= while `"$`" != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```

> e -----
  - opts_exclusive ``noci' `nopvalues''
  = opts_exclusive " "
  -----
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while '''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  -----
> ----- end opts_exclusiv
> e -----
  - local K : list sizeof namelist
  - gettoken c_diopts c_opts : namelist
  - opts_exclusive ``coding' `compare''
  = opts_exclusive " "
  -----
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while '''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  -----
> ----- end opts_exclusiv
> e -----
  - opts_exclusive ``versus' `compare''

```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'

```

```

= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}

```

```

- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat'''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat ```sformat(`sformat')''''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat'''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat ```pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIidth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIidth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while ``''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fwrapon `word' `width'
= local fwrapon
- if `:length local fwrapon' {
= if 0 {
    c_local fwrapon fwrapon(`fwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ```fvwrap''' != "" {
= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)


---


> _____ begin _get_diopts.FVWra
> p _____
- syntax, fvwrap(integer)
- if `fvwrap' < 0 {
= if 1 < 0 {
    di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; " "n
> onnegative integer required{p_end}"
    exit 198
}


---


> _____ end _get_diopts.FVWra
> p _____
- }
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fwrapon' `fvlable' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

```

```

= c_local diopts          fvwrap(1)
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1` `""`diopts"""
= c_local diopts `""`fvwrap(1)`"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_method = s(method)
- }
- local S_`sname' = s(`sname')
= local S_options = s(options)
- }
- sreturn clear
- GetDiopts DEFAULT

> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA

```

```

> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV */
    - opts_exclusive ``allbaselevels' `noallbaselevels``
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while '' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while '' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels''
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`f xlabel' `no f xlabel'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``nci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
- local allbaselevels `allbaselevels' `noallbaselevels'  
= local allbaselevels  
- local baselevels `baselevels' `nobaselevels'  
= local baselevels  
- local emptycells `emptycells' `noemptycells'  
= local emptycells  
- local omitted `omitted' `noomitted'  
= local omitted  
- local lstretch `lstretch' `nolstretch'  
= local lstretch  
- local fylabel `fylabel' `nofylabel'  
= local fylabel  
- local abbrev `abbrev' `noabbrev'  
= local abbrev  
- if "`allbaselevels` `baselevels'" == "" {  
= if "" == "" {  
- if c(showbaselevels) == "all" {  
    local allbaselevels allbaselevels  
}  
- }  
- else if c(showbaselevels) == "on" {  
    local baselevels baselevels  
}  
- }  
- if "`emptycells'" == "" {  
= if "" == "" {  
- if c(showemptycells) == "off" {  
    local emptycells noemptycells  
}  
- }  
- if "`omitted'" == "" {  
= if "" == "" {  
- if c(showomitted) == "off" {  
    local omitted noomitted  
}  
- }  
- if "`lstretch'" == "" {  
= if "" == "" {  
- if c(lstretch) == "off" {  
    local lstretch nolstretch  
}  
- }  
- if `:length local cformat' {  
= if 0 {  
    confirm numeric format `cformat'  
    if fmtwidth(``cformat'') > 9 {
```

```

local cformat "%9.0g"
di "{txt}note: invalid cformat(), using default"
}
sreturn local cformat `""`cformat"""
local cformat `"cformat(`cformat')"""
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`"`sformat""') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `""`sformat"""
    local sformat `"sformat(`sformat')"""
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"`pformat""') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
    local pformat `"pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon

```

```

= opts_exclusive " " fwrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if "`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwrap' `fwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""options""'
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'

```

```

= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- if `""`name2""` == "" {
= if `""` == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""` != "" {
= while `""` != "" {
    local ++
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
```

```
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``fvlable' `nofvlabel''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``omitted' `noomitted''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend` `selegend`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci` `nopvalues`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n

```

```

        gettokent item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettokent c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts'' != "" {
= while `''' != "" {
        local ++n
        gettokent item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts'' != "" {
= while `''' != "" {
        local ++n
        gettokent item`n' opts : opts, bind
    }

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}

```

```

- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
-
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `"cformat(`cformat')"'
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `"sformat(`sformat')"'
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {

```

```

local pformat "%5.3f"
di "{txt}note: invalid pformat(), using default"
}
sreturn local pformat `""`pformat"""
local pformat `"pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != ""' {
= while `""' != ""' {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____

```

```

- local fwrapon `word` `width'
= local fwrapon
- if `:length local fwrapon' {
= if 0 {
    c_local fwrapon fwrapon(`fwrapon')
}



---


> _____ end _get_diopts.Wrapo
> n _____
- if "`fwrap'" != "" {
= if "" != "" {
    FWrap, `fwrap'
}
- c_local `c_diopts` `levelopt` `vsquish` `allbaselevels` `b
> aselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `co
> eflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compar
> e` `fwrap` `fwrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `abb
> rev'
= c_local DUPs
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts` `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95



---


> _____ end _get_diopts.GetDiopt
> s _____
- }
- else {
    GetDiopts DUPs options, `options'
    c_local `name2` `""`options"""
}
- local DUPs : list DUPs - DEFAULT
- gettoken DUPs : DUPs
- if `""`DUPs""' != ""' {
= if `""' != ""' {
    if (strpos(`""`DUPs""', "(")) {
        gettoken DUPs : DUPs, parse("(")
        local DUPs `""`DUPs'()""'

```

```

        }
        di as err "duplicate {bf:'DUPS'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = `""`S_`sname`"""
    = sreturn local level = `""95"""
    - }
    - sreturn local `sname' = `""`S_`sname`"""
    = sreturn local method = `""noadjust"""
    - }
    - sreturn local `sname' = `""`S_`sname`"""
    = sreturn local options = `""level(95.00) fvwrap(1)"""
    - }



---


> _____ end _get_diopt
> s _____
    - if !`:length local first' {
    = if !0 {
    - local first showeqns
    - }
    - if `neq' < 1 {
    = if -1 < 1 {
    - _ms_eq_info
    - local neqopt neq(`r(k_eq)')
    = local neqopt neq(1)
    - }
    - else {
    local neqopt neq(`neq')
    }
    - _coef_table, nodiparm nocnsreport noeqlcheck eformall `eform' `

> first' `neqopt' `plus' `beta' `mcopt' `diopts'
    = _coef_table, nodiparm nocnsreport noeqlcheck eformall showeqns
> neq(1) mcompare(noadjust) fvwrap(1)



---


> _____ begin _coef_tabl
> e _____
    - version 11
    - local vv : di "version " string(max(11,_caller())) ", missin
> g:""
    - if (!c(noisily) & c(coeftabresults) == "off") {
    exit
    }
    - _check_eiclass
    - syntax [, BMATrix(passthru) VMATrix(passthru) * ]

```

```

    - if "`e(b)` == "" & "`e(V)` == "" & "`bmatrix` `vmatrix`""==""
> " {
    = if "matrix" == "" & "matrix" == "" & ""=="" {
        exit
    }
    - local mc_cmds contrast margins pwcompare pwmean
    - local cmd "`e(cmd)`"
    = local cmd "regress"
    - local keepmc : list cmd in mc_cmds
    - if inlist("`cmd`", "pwcompare", "pwmean") {
    = if inlist("regress", "pwcompare", "pwmean") {
        local groups GROUPS
    }
    - if "`cmd`" == "regress" {
    = if "regress" == "regress" {
        - local beta Beta
    }
    - if "`cmd`" == "gsem" {
    = if "regress" == "gsem" {
        local fvignore fvignore(int 0)
        local flignore flignore
    }
    - if "`cmd`" == "sem" {
    = if "regress" == "sem" {
        local standardized STANDARDIZED
        local showginvariant SHOWGINVariant
        local nolabel NOLABEL LABel NOFVLABel FVLABel
        local nofootnote NOFOOTnote
        local wrap wrap(numlist max=1) fvwrap(passthru)
    }
    - if "`e(mi)`""=="mi" {
    = if ""=="mi" {
        local dftable DFTable
        local dfonly DFONLY
        local noclustreport NOCLUSTReport
        local pisematrix PISEMATrix(string)
    }
    - syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(
> string) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(st
> ring) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string)
> PCLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) `beta` `standardized` NOCI NOPValues `dftable` `dfonly` dfci DFPV
> alues dfmissing `groups` COEFLegend selegend `fvignore` `flignore` `showginv
> ariant` `nolabel` `nofootnote` `wrap` sort `pisematrix` depname(string) COEF
> Title(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEGend n

```

```

> oCNSReport FULLCNSReport `noclustreport' cformat(passthru) sformat(passthru)
> pformat(passthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SE
> Parator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EFORMALL CITYPE(string)
> eqselect(string) noEFORMNOTE *
      = syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(
> string) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(st
> ring) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string)
> PCLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) Beta NOCI NOPValues dfci DFPValues dfmissing COEFLegend seleg
> end      sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(
> string) cititle(string) NOMCLEGend noCNSReport FULLCNSReport cformat(passth
> ru) sformat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -
> 1) NODIPARM NOTEST SEParator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EF
> ORMALL CITYPE(string) eqselect(string) noEFORMNOTE *
      - if ``wrap'' != "" {
      = if "" != "" {
          opts_exclusive ``wrap(`wrap') `fvwrap'''
          local fvwrap fvwrap(`wrap')
      }
      - if ``nolabel``label'' != "" {
      = if "" != "" {
          opts_exclusive ``nolabel' `label''
          opts_exclusive ``nofvlabel' `fvlable'''
          opts_exclusive ``nolabel' `fvlable'''
          opts_exclusive ``nofvlabel' `label'''
          if ``nolabel'' != "" {
              local fvlable nofvlabel
          }
          else {
              local fvlable fvlable
          }
      }
      - else local fvlable `nofvlabel' `fvlable'
      = else local fvlable
      - local type `coeflegend' `selegend'
      = local type
      - opts_exclusive ``type' `standardized'''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts

```

```

- local n 0
- while `opts` != "" {
= while `` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if (`rowmatrix`=="" & `norowci`!="") {
= if (``=="" & `!= "") {
    di as err "{bf:norowci} requires {bf:rowmatrix()}"
    exit 198
}
- if (`dftable`!="& `norowci`!="") {
= if (`!=` & `!=`) {
    di as err "{bf:norowci} is not allowed with {bf:`dftable'}"
    exit 198
}
- if (`dfonly`!="& `norowci`!="") {
= if (`!=` & `!=`) {
    di as err "{bf:norowci} is not allowed with {bf:`dfonly'}"
    exit 198
}
- if (`noci`!="& `norowci`!="") {
= if (`!=` & `!=`) {
    di as err "{bf:norowci} is not allowed with {bf:`noci'}"
    exit 198
}
- if `standardized` != "" & `bstdmatrix` != "" {
= if `` != "" & `` != "" {
    local beta beta
    local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
- local type `beta' `noci' `nopvalues' `dftable' `dfonly' `gro
> ups` `dfci` `dfpvalues'
= local type
- }
- opts_exclusive ``type``
= opts_exclusive ""


---



```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``first' `nofirst''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``first' `showeqns''
= opts_exclusive " showeqns"
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts showeqns
- local n 0
- while `"`opts`"" != "" {
= while `"`showeqns`"" != "" {
- local ++n
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local cnsreport `cnsreport` `fullcnsreport'
= local cnsreport nocnsreport
- opts_exclusive "`cnsreport`"
= opts_exclusive "nocnsreport"


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts nocnsreport
- local n 0
- while `"`opts`"" != "" {
= while `"`nocnsreport`"" != "" {
- local ++n
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- if `"`showeqns`"" != "" {
= if `showeqns` != "" {
- local nofirst nofirst
- }
- if `"`ematrix`noeqcheck`"" == "" {
= if `noeqcheck` == "" {
if `"`e(error)`"" == "matrix" {
local ematrix e(error)
}
}
- _get_mcompare, `options'
= _get_mcompare, mcompare(noadjust ) fvwrap(1)

```

```

> _____ begin _get_mcompar
> e _____
- version 11
- local cmd `"`e(cmd)`""
= local cmd `regress``
- syntax [name(name=caller)] [, *]
- local is_pwc = inlist("pwcompare", "`cmd`", "`caller`") |
> inlist("pwmean", "`cmd`", "`caller`")
= local is_pwc = inlist("pwcompare", "regress", "") | inlist
> ("pwmean", "regress", "")
- local is_marg = inlist("margins", "`cmd`", "`e(cmd2)`", `"
> caller`")
= local is_marg = inlist("margins", "regress", "", "")
- local OPTIONS NOADJust BONferroni DUNCAn DUNNett SCHeffe S
> IDak SNK TUKey ADJustall
- if `is_pwc' {
= if 0 {
syntax [name] [, `OPTIONS' MCOMParE(string) *]
}
- else {
- syntax [name] [, MCOMParE(string) *]
- local suboption mcompare()
}
- sreturn clear
- sreturn local options `"`options`""
= sreturn local options `fvwrap(1)`
- if `is_pwc' {
= if 0 {
local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `s
> cheffe' `sidak' `snk' `tukey'

```

```

local METHOD : list uniq METHOD
opts_exclusive "`METHOD`"
local ALL `adjustall'
opts_exclusive "`noadjust` `ALL`"
}
- local 0 `", `mcompare`"
= local 0 `", noadjust`"
- capture syntax [, `OPTIONS`]
= capture syntax [, NOADJust BONferroni DUNCan DUNNett SCHef
> fe SIDak SNK TUKey ADJustall]
- if c(rc) {
  di as err "invalid mcompare() option;"
  di as err "method ``mcompare'' not allowed"
  error 198
}
- local METHOD `METHOD` `noadjust` `bonferroni` `duncan` `du
> nnett` `scheffe` `sidak` `snk` `tukey`
= local METHOD noadjust
- local METHOD : list uniq METHOD
- local ALL `ALL` `adjustall'
= local ALL
- local ALL : list uniq ALL
- opts_exclusive "`METHOD`" `suboption'
= opts_exclusive "noadjust" mcompare()

```

```

> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts noadjust
- local n 0
- while `""`opts`""' != ""' {
= while `""`noadjust`""' != ""' {
- local ++
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `""`opts`""' != ""' {
= while `""' != ""' {
- local ++
gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- if ``METHOD'' == "" {
= if "noadjust" == "" {
  if ``ALL'' != "" {
    di as err "multiple comparison method required with the ad
> justall option"
      exit 198
    }
    local METHOD noadjust
    local noadjust noadjust
  }
- opts_exclusive ``ALL' `noadjust'' `suboption'
= opts_exclusive " noadjust" mcompare()

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts noadjust
- local n 0
- while ```opts''' != "" {
= while ```noadjust''' != "" {
- local ++n
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while ```opts''' != "" {
= while `''' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- local EXCLUDE duncan dunnett snk tukey
- if `:list METHOD in EXCLUDE' {
= if 0 {
  if `is_pwc' {
    local opt : copy local METHOD
  }

```

```

        else {
            local opt "mcompare(`METHOD')"
        }
        local cmdlist anova manova regress mvreg pwmean
        if "`cmd'" == "pwcompare" {
            local cmd `"`e(cmd_est)```"
        }
        if `is_marg' {
            local cmd margins
        }
        if !`:list cmd in cmdlist' | !`is_pwc' {
            di as err `'"method `opt' is not allowed with results from
> `cmd```'
            exit 322
        }
        if `"`e(prefix)```' == "svy" {
            di as err `'"method `opt' is not allowed with results using
> the svy prefix```'
            exit 322
        }
        local vce `"`e(vce)```'
        if !inlist("`vce'", "", "ols") {
            di as err `'"method `opt' is not allowed with results using
> vce(`vce')```'
            exit 322
        }
        -
        - local EXCLUDE duncan dunnett snk tukey scheffe
        - if `:list METHOD in EXCLUDE' {
        = if 0 {
            if "`ALL'" != "" {
                di as err `'"option adjustall is not allowed with method `M
> ETHOD```'
                exit 198
            }
        }
        -
        - sreturn local method `"`METHOD```'
        = sreturn local method `""'
        -
        - sreturn local adjustall `"`ALL```'
        = sreturn local adjustall `""'



---


> _____ end _get_mcompar
> e _____
    - local method `"`s(method)```'
    = local method `""'
    - local all `"`s(adjustall)```'

```

```

= local all `"""
- local options `"\`s(options)"""
= local options `"$fvwrap(1)"
- if "`method'" != "noadjust" {
= if "noadjust" != "noadjust" {
    local keepmc 1
}
- opts_exclusive "`all' `groups"""
= opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while '`opts'"" != "" {
= while '""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- if "`method'" == "dunnett" {
= if "noadjust" == "dunnett" {
    opts_exclusive "`method' `groups"
}
- _get_diopts diopts options, `options' `fvwrap' `fvlabel'
= _get_diopts diopts options, fvwrap(1)

```

```

> _____ begin _get_diopt
> s _____
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options, fvwrap(1)

```

```

> _____ begin _get_diopts.GetDiopt
> s _____

```

```

    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - opts_exclusive ``lstretch' `nolstretch''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `""' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``cnsreport' `fullcnsreport''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `""' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "
```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while ```` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive ```nocl' ``nopvalues''
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while ```` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ```coding' ``compare''
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `"$`opts`$` != "" {
= while `"$` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fvlabel `fvlabel` `nofvlabel'
= local fvlabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if ``allbaselevels`` `baselevels` == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if ``emptycells` == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if ``omitted` == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}

```

```

- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ``cformat''
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ``sformat''
    local sformat `sformat(`sformat')"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ``pformat''
    local pformat `pformat(`pformat')"
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'

```

```

= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while ""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)


---


> _____ begin _get_diopts.FVWra

```

```

> p -----
      - syntax, fwwrap(integer)
      - if `fwwrap' < 0 {
      = if 1 < 0 {
          di as err "{p}invalid option {bf:fwwrap(`fwwrap')}; "
> "nonnegative integer required{p_end}"
          exit 198
      }

-----
> -----
> p -----
      - }
      - c_local `c diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp'
> `are' `fwwrap' `fwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> `bbrev'
      = c_local diopts           fwwrap(1)
      - if `K' == 2 {
      = if 2 == 2 {
      - c_local `c_opts' `""`options`"""
      = c_local options `"""
      - }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95

-----
> -----
> s -----
      - c_local `name1' `""`diopts`"""
      = c_local diopts `""`fwwrap(1)`"""
      - local snames : s(macros)
      - foreach sname of local snames {
      - local S_`sname' = s(`sname')
      = local S_level = s(level)
      - }
      - local S_`sname' = s(`sname')
      = local S_method = s(method)
      - }
      - local S_`sname' = s(`sname')
      = local S_options = s(options)

```

```

- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
```

```

- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "

```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - local allbaselevels `allbaselevels` `noallbaselevels'
    = local allbaselevels
    - local baselevels `baselevels` `nobaselevels'
    = local baselevels
    - local emptycells `emptycells` `noemptycells'
    = local emptycells
    - local omitted `omitted` `noomitted'
    = local omitted
    - local lstretch `lstretch` `nolstretch'
    = local lstretch
    - local fvlabel `fvlabel` `nofvlabel'
    = local fvlabel
    - local abbrev `abbrev` `noabbrev'
    = local abbrev
    - if "`allbaselevels` `baselevels'" == "" {
    = if "" == "" {
        - if c(showbaselevels) == "all" {
            local allbaselevels allbaselevels
        }
        - else if c(showbaselevels) == "on" {
            local baselevels baselevels
        }
        - }
        - if "`emptycells'" == "" {
        = if "" == "" {
            - if c(showemptycells) == "off" {
                local emptycells noemptycells
            }
        }
    }

```

```

- }
- if ``omitted'' == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if ``lstretch'' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat ```cformat(`cformat')'''
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat ```sformat(`sformat')'''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat ```pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']

```

```

        }
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}

```

```

> _____ end _get_diopts.Wrapo
> n _____

```

```

- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch'
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> `are' `fvwrap' `fvrapON' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> `bbrev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- if `""`name2""' == "" {
= if `""`options""' == "" {
    GetDiopts DUPs, `options'
}
- else {
- GetDiopts DUPs options, `options'
= GetDiopts DUPs options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW

```

```

> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels''
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`emptycells' `noemptycells'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`fvlabel' `nofvlabel'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend` `selegend`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - local allbaselevels `allbaselevels' `noallbaselevels'  
      = local allbaselevels  
      - local baselevels `baselevels' `nobaselevels'  
      = local baselevels  
      - local emptycells `emptycells' `noemptycells'  
      = local emptycells  
      - local omitted `omitted' `noomitted'  
      = local omitted  
      - local lstretch `lstretch' `nolstretch'  
      = local lstretch  
      - local fvlabel `fvlabel' `nofvlabel'  
      = local fvlabel  
      - local abbrev `abbrev' `noabbrev'  
      = local abbrev  
      - if "`allbaselevels` `baselevels'" == "" {  
      = if "" == "" {  
      - if c(showbaselevels) == "all" {  
          local allbaselevels allbaselevels  
        }  
      - else if c(showbaselevels) == "on" {  
          local baselevels baselevels  
        }  
      - }  
      - if "`emptycells'" == "" {  
      = if "" == "" {  
      - if c(showemptycells) == "off" {  
          local emptycells noemptycells  
        }  
      - }  
      - if "`omitted'" == "" {  
      = if "" == "" {  
      - if c(showomitted) == "off" {  
          local omitted noomitted  
        }  
      - }  
      - if "`lstretch'" == "" {  
      = if "" == "" {  
      - if c(lstretch) == "off" {  
          local lstretch nolstretch  
        }  
      - }  
      - if `:length local cformat' {  
      = if 0 {  
          confirm numeric format `cformat'  
          if fmtwidth(```cformat''') > 9 {
```

```

local cformat "%9.0g"
di "{txt}note: invalid cformat(), using default"
}
sreturn local cformat `"`cformat`""
local cformat `"cformat(`cformat')`"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`"`sformat`"') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `"`sformat`""
    local sformat `"sformat(`sformat')`"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"`pformat`"') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `"`pformat`""
    local pformat `"pformat(`pformat')`"
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvrapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fvrapon

```

```

= opts_exclusive " " fwrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if "`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `fwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' `""`options"""
        = c_local options `"""
    }
    - sreturn local coding `coding'
    = sreturn local coding

```

```

    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name2' `""`options"""
    = c_local options `"""
    - }
    - local DUPS : list DUPS - DEFAULT
    - gettoken DUPS : DUPS
    - if `""`DUPS"" != "" {
    = if `"""` != "" {
        if (strpos(`""`DUPS""", "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS `""`DUPS`()"""
        }
        di as err "duplicate {bf:`DUPS'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local level = `""95"""
    - }
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local method = `""noadjust"""
    - }
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local options = `""fvwrap(1)"""
    - }



---


> _____ end _get_diopt
> s _____
    - local legend coeflegend selegend
    - local legend : list legend & diopts
    - local diopts : list diopts - legend
    - local lstretch lstretch nolstretch
    - local lstretch : list lstretch & diopts
    - local diopts : list diopts - lstretch
    - local markdown markdown
    - local markdown : list markdown & diopts
    - local diopts : list diopts - markdown

```

```

- _get_diopts ignore, `diopts' `cformat' `sformat' `pformat'
= _get_diopts ignore, fwwrap(1)


---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options, fwwrap(1)


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru)
> FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != ""' {
    = while `""' != ""' {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
```

```
> ----- begin opts_exclusiv
> e -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
- version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `f ylabel' `nof ylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ```allbaselevels'`baselevels'' == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {

```

```

    local baselevels baselevels
}
-
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat``') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat``'
    local cformat `cformat(`cformat')``'
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat``') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat``'
    local sformat `sformat(`sformat')``'
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat``') > 5 {
        local pformat "%5.3f"
}

```

```

        di "{txt}note: invalid pformat(), using default"
    }
sreturn local pformat `""`pformat"""
local pformat `pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'

```

```

= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}

> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)

> _____ begin _get_diopts.FVWra
> p _____
- syntax, fvwrap(integer)
- if `fvwrap' < 0 {
= if 1 < 0 {
    di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; "
> "nonnegative integer required{p_end}"
    exit 198
}

> _____ end _get_diopts.FVWra
> p _____
- }
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> `are' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> `bbrev'
= c_local diopts                               fvwrap(1)
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' ``options''
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

```

```

> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1` `""`diopts"""
    = c_local ignore `""`fvwrap(1)`"""
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname` = s(`sname`)
    = local S_level = s(level)
    - }
    - local S_`sname` = s(`sname`)
    = local S_options = s(options)
    - }
    - local S_`sname` = s(`sname`)
    = local S_method = s(method)
    - }
    - sreturn clear
    - GetDiopts DEFAULT
    _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels` `noallbaselevels`"
    = opts_exclusive " "
    _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""` != ""` {
    = while `""` != ""` {
        local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____

```

```

- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``noci' `nopvalues''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev` `noabbrev`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fylabel `fylabel` `nofylabel'
= local fylabel
- local abbrev `abbrev` `noabbrev'
= local abbrev

```

```

- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat``') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat``'
    local cformat `cformat(`cformat')``'
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat``') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat``'
    local sformat `sformat(`sformat')``'
}

```

```

        }
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat``') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ``pformat''
    local pformat `pformat(`pformat')'
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvrapon `word` `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
  c_local fvrapon fvrapon(`fvrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts` `leveLOPT` `vsquish` `albaselevels'
> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts` `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- if `""`name2""` == "" {
= if `""` == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____

```

```

    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlable''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - opts_exclusive ``lstretch' `nolstretch''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `""' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``cnsreport' `fullcnsreport''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `""' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "
```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while ``''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive ``noci' `nopvalues''
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while ``''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `"$`opts`$` != "" {
= while `"$` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fvlabel `fvlabel` `nofvlabel'
= local fvlabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if ``allbaselevels`` `baselevels` == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if ``emptycells` == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if ``omitted` == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}

```

```

- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ``cformat''
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ``sformat''
    local sformat `sformat(`sformat')"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ``pformat''
    local pformat `pformat(`pformat')"
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'

```

```

= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while ""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `

```

```

> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
      = c_local DUPs
      - if `K' == 2 {
      = if 1 == 2 {
          c_local `c_opts' `""`options"""
          }
          - sreturn local coding `coding'
          = sreturn local coding
          - sreturn local versus `versus'
          = sreturn local versus
          - sreturn local compare `compare'
          = sreturn local compare
          - sreturn local level `level'
          = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
      - }
      - else {
          GetDiopts DUPs options, `options'
          c_local `name2' `""`options"""
          }
          - local DUPs : list DUPs - DEFAULT
          - gettoken DUPs : DUPs
          - if `""`DUPs""' != ""' {
          = if `""' != ""' {
              if (strpos(`""`DUPs""', "(")) {
                  gettoken DUPs : DUPs, parse("(")
                  local DUPs `""`DUPs'()""'
                  }
                  di as err "duplicate {bf:`DUPs'} option not allowed"
                  exit 198
                  }
          - sreturn clear
          - foreach sname of local snames {
          - sreturn local `sname' = `""`S_`sname'"""
          = sreturn local level = `""95"""
          - }
          - sreturn local `sname' = `""`S_`sname'"""
          = sreturn local options = `""fvwrap(1)"""
          - }
          - sreturn local `sname' = `""`S_`sname'"""
          = sreturn local method = `""noadjust"""
          - }

```

```

> _____ end _get_diopt
> s _____
  - local cformat `"\`$cformat`"""
  = local cformat `"""
  - local sformat `"\`$sformat`"""
  = local sformat `"""
  - local pformat `"\`$pformat`"""
  = local pformat `"""
  - _get_eformopts , eformopts(`options') allowed(_all_) soptions
> ons
  = _get_eformopts , eformopts() allowed(_all_) soptions


---


> _____ begin _get_eformopt
> s _____
  - version 8.0
  - syntax [, eformopts(string asis) soptions ALLOWed(string)
> ]
  - local 0 , `eformopts'
  = local 0 ,
  - local EFALL NOHR hr NOSHR shr or IRR RRr tr TRatio
  - if "`soptions'" != "" {
  = if "soptions" != "" {
  - syntax [, EForm1(passthru) EForm `EFALL' * ]
  = syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR
> RRr tr TRatio * ]
  - local opts `"\`options`"""
  = local opts `"""
  - local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or'
> `irr' `rrr' `tr' `tratio'
  = local 0 ,
  - }
  - if "`allowed'" == "__all__" {
  = if "__all__" == "__all__" {
  - local allowed `EFALL'
  = local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
  - }
  - foreach ef of local allowed {
  - capture confirm name `ef'
  = capture confirm name NOHR
  - if _rc {
  di as err "`ef' is not a valid name"
  exit 198
  }
  - local efopts `efopts' `=lower(``ef``)'
  = local efopts nohr

```

```
- }
- capture confirm name `ef'
= capture confirm name hr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr
-
- capture confirm name `ef'
= capture confirm name NOSHR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr
-
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr
-
- capture confirm name `ef'
= capture confirm name or
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or
-
- capture confirm name `ef'
= capture confirm name IRR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr
-
```

```

- capture confirm name `ef'
= capture confirm name RRr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr
-
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr
-
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr tratio
-
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform

```

```

- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- if ```eform1''''=="Odds ratio" {
= if `""'=="Odds ratio" {
    local eform_cons_ti = "Odds"
    local eform_cons_note = "odds ratios"
}
- else if ```eform1''''=="Haz. ratio" {
= else if `""'=="Haz. ratio" {
    local eform_cons_ti = "Hazard"
    local eform_cons_note = "hazard ratios"
}
- else if ```eform1''''=="Time ratio" {
= else if `""'=="Time ratio" {
    local eform_cons_ti = "Time"
    local eform_cons_note = "time ratios"
}
- else if ```eform1''''=="IRR" {
= else if `""'=="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_ti2 = "incidence rate"
}
- else if ```eform1''''=="Risk ratio" {
= else if `""'=="Risk ratio" {
    local eform_cons_ti = "Risk"
    local eform_cons_note = "risk ratios"
}
- else if ```eform1''''=="Hlth ratio" {
= else if `""'=="Hlth ratio" {
    local eform_cons_ti = "Health"
    local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {

```

```

= if 0 {
    opts_exclusive ``eform''
    if `:length local eform1' {
        opts_exclusive "eform() `eform'"
    }
}
-
= if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
    else if ("`eform'"=="tr") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="tratio") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="or") {
        local eform1 = "Odds ratio"
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(
> cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local eform_cons_ti = "Rel. risk"
            local eform_cons_note = "relative-risk ratios"
            local eform_cons_ti2 = "relative risk"
        }
        else {
            local eform_cons_ti = "Odds"
            local eform_cons_note = "odds ratios"
        }
    }
    else if ("`eform'"=="irr") {
        local eform1 = "IRR"
        local eform_cons_ti = "Inc. rate"
        local eform_cons_note = "incidence-rate ratios"
    }
}
}

```

```

local eform_cons_ti2 = "incidence rate"
}
else if (`eform`=="rrr") {
local eform1 = "RRR"
local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_ti2 = "relative risk"
}
else if (`eform`!="nohr" & (`eform`!="noshr")) {
local eform1 = upper(`eform`)
}
}
-sreturn clear
-sreturn local options `opts'
=sreturn local options ``
-sreturn local opt `eform'
=sreturn local opt
-sreturn local str `eform1'
=sreturn local str
-s if ``eform1`` != `` {
= if `` `` != `` {
    sreturn local eform eform(``eform1``)
}
-s else sreturn local eform ``
-sreturn local eform_cons_ti `eform_cons_ti'
=sreturn local eform_cons_ti
-sreturn local eform_cons_note `eform_cons_note'
=sreturn local eform_cons_note
-sreturn local eform_cons_ti2 `eform_cons_ti2'
=sreturn local eform_cons_ti2

```

```

> _____ end _get_eformopt
> s _____
    - local tr_item = ``s(eform_cons_note)``
    = local tr_item = ``
    - if inlist(`bmatrix`, ``, `e(b)`) & `e(k_eform)` == "0" {
    = if inlist(``, ``, `e(b)`) & `` == "0" {
        local eform
    }
    - else local eform ``s(str)``
    = else local eform ``
    - local eform_cons_ti ``s(eform_cons_ti)``
    = local eform_cons_ti ``
    - local eform_cons_ti2 ``s(eform_cons_ti2)``
    = local eform_cons_ti2 ``
    - if (`e(consonly)`!="1" | ``eform_cons_ti``==``) {

```

```

= if ("!="=="1" | `===""") {
- local eformmdi `"\`s(str)`"
= local eformmdi `"""
- }
- else {
    local eformmdi `"\`eform_cons_ti`"
    local tr_item = cond(missing(`eform_cons_ti2`), strlower(`> `"\`eform_cons_ti`"), `"\`eform_cons_ti2`")
}
- local coefttl = cond(`"\`eform`"=="`, `"\`coeftitle`", `"\`> eformdi`")
= local coefttl = cond(`"\`=="`, `"\`", `"\`")
- local options `"\`s(options)`"
= local options `"""
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)


---


> _____ begin _get_diparmopt
> s _____
- if _caller() < 8.2 {
    _get_diparmopts_8 `0'
    exit
}
- version 9
- local version : di "version " string(_caller()) ":""
- syntax [, diparmopts(string asis) EXECute soptions bottom
> plus SYNTAXonly * ]
- local goptions `options'
= local goptions level(95)
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk , level(95)


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
- syntax name(id="macro name" name=c_diparm) [, diparm(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
- if `"\`dof`" == "" & `"\`e(df_r)`" != "" {
= if `""` == "" & `"\`210`" != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 210
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(210)
- }
- capture
- }

```

```

- else local gdof `"\`dof``"
= else local gdof `"""
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (`"\`diparm`"" == "") exit
= if (`""` == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts`"""
= local 0 `", ""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while `"\`diparm`"" != "" {
= while `""` != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm `"\`s(before)`"""
        local after `"\`s(after)`"""
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `gopt
> ions'
    local diparm`k` `"\`diparm`"""
    local diparmopts `"\`diparmopts' : `diparm`"""
    if `single' | `":list retok after`"" == "" {
        local 0 `", `options`"""
        syntax [, diparm(string asis) * ]
    }
    else {
        local diparm `"\`after`"""
    }
- if `"\`soptions`"" == "" {
= if `""` == "" {
- syntax [, diparm(string asis) ]
- }
- if (`execute`" == "") {
= if (`"" == "") {

```

```

- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `"""
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `"""
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `""`diparm`i"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- local NODIPARM : length local nodiparm
- if `NODIPARM' {
= if 8 {
- local options
- }
- local GTOPTS parse("::") bind quotes
- local k 0
- if !`NODIPARM' {
= if !8 {
    if `""`e(diparm)""' != ""' {
local i 0
local diparm `""`e(diparm)"""
}
else if `""`e(diparm1)""' != ""' {
local i 1
local diparm `""`e(diparm1)"""
}
while `:length local diparm' {
gettken diparm rest : diparm, `GTOPTS'
while `:length local rest' {
local ++k
local diparm`k' : copy local diparm
gettken COLON rest : rest, `GTOPTS'
gettken diparm rest : rest, `GTOPTS'
}
local ++k
local diparm`k' : copy local diparm
local ++i
local diparm `""`e(diparm`i')"""
}
}
}

```

```

- if `:length local options' {
= if 0 {
    local 0 `", `options`"'
    syntax [, diparm(string asis) *]
    if `k' & `:length local diparm' {
        local ++k
        local diparm`k' __sep__
    }
    while `:length local diparm' {
        gettoken diparm rest : diparm, `GTOPTS'
        while `:length local rest' {
            local ++k
            local diparm`k' : copy local diparm
            gettoken COLON rest : rest, `GTOPTS'
            gettoken diparm rest : rest, `GTOPTS'
        }
        local ++k
        local diparm`k' : copy local diparm
        local 0 `", `options`"'
        syntax [, diparm(string asis) *]
    }
}
- if "`markdown'" != "" {
= if "" != "" {
    local lsize = c(linesize)
    set linesize 255
}
- `vv' mata: _coef_table()
= version 11, missing: mata: _coef_table()

```

```

> _____ begin _get_diopt
> s _____

```

- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
- = GetDiopts diopts options, fvwrap(1)

```

> _____ begin _get_diopts.GetDiopt
> s _____

```

- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
- > ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
- > TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
- > ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
- > FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)

```

> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive ``allbaselevels' `noallbaselevels''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
      }
      - if `n' < 2 {
      = if 0 < 2 {
          - exit


---


> _____ end opts_exclusiv
> e _____
      - opts_exclusive ``allbaselevels' `nobaselevels''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
      }
      - if `n' < 2 {
      = if 0 < 2 {

```

```

        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``emptycells' `noemptycells''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____

```

```
- opts_exclusive ``fvlabel' `nofvlabel''  
= opts_exclusive " "  


---



> _____ begin opts_exclusiv  
> e _____



```
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
 local ++n
 gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```



> _____ end opts_exclusiv  
> e _____



```
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "

> _____ begin opts_exclusiv
> e _____


```
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while ```opts''' != "" {  
= while `''' != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---


```


> _____ end opts_exclusiv
> e _____


```
- opts_exclusive ``lstretch' `nolstretch''  
= opts_exclusive " "  


---



> _____ begin opts_exclusiv


```


```


```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``cnsreport' `fullcnsreport''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while ```opts''' != "" {
= while `'''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `'''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `'''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch

```

```

        }
    - }
    - if `:length local cformat' {
    = if 0 {
        confirm numeric format `cformat'
        if fmtwidth(```cformat''') > 9 {
            local cformat "%9.0g"
            di "{txt}note: invalid cformat(), using default"
        }
        sreturn local cformat ````cformat'''
        local cformat ```cformat(`cformat')'''
    }
    - if `:length local sformat' {
    = if 0 {
        confirm numeric format `sformat'
        if fmtwidth(````sformat''') > 8 {
            local sformat "%8.2f"
            di "{txt}note: invalid sformat(), using default"
        }
        sreturn local sformat ````sformat'''
        local sformat ```sformat(`sformat')'''
    }
    - if `:length local pformat' {
    = if 0 {
        confirm numeric format `pformat'
        if fmtwidth(````pformat''') > 5 {
            local pformat "%5.3f"
            di "{txt}note: invalid pformat(), using default"
        }
        sreturn local pformat ````pformat'''
        local pformat ```pformat(`pformat')'''
    }
    - if `K' == 1 & `:length local options' {
    = if 2 == 1 & 0 {
        syntax namelist(max=2) [, `DIOPTS']
    }
    - if reldif(`level', c(level)) > 1e-3 {
    = if reldif(95, c(level)) > 1e-3 {
        local levelopt level(`level')
    }
    - Wrapon , `fvwrapon'
    = Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
      - capture syntax [, WOrd WIidth]

```

```

- if c(rc) {
di as err "invalid fvrapon() option;"  

syntax [, WOrd WIdth]  

exit 198
}  

- opts_exclusive ``word' `width'' fvrapon  

= opts_exclusive " " fvrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap''' != "" {
= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)


---


> _____ begin _get_diopts.FVWra
> p _____
- syntax, fvwrap(integer)
- if `fvwrap' < 0 {
= if 1 < 0 {
    di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; "

```

```

> "nonnegative integer required{p_end}"
      exit 198
    }



---


> _____ end _get_diopts.FVWra
> p _____
  - }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local diopts           fvwrap(1)
    - if `K' == 2 {
    = if 2 == 2 {
      - c_local `c_opts' `""`options"""
      = c_local options `"""
      - }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95



---


> _____ end _get_diopts.GetDiopt
> s _____
  - c_local `name1' `""`diopts"""
  = c_local __0000D `""fvwrap(1)"""
  - local snames : s(macros)
  - foreach sname of local snames {
  - local S_`sname' = s(`sname')
  = local S_level = s(level)
  - }
  - local S_`sname' = s(`sname')
  = local S_k = s(k)
  - }
  - sreturn clear
  - GetDiopts DEFAULT



---


> _____ begin _get_diopts.GetDiopt
> s _____
  - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP

```

```

> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru)
> FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEG
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive ``allbaselevels' `noallbaselevels''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
      }
      - if `n' < 2 {
      = if 0 < 2 {
          - exit


---


> _____ end opts_exclusiv
> e _____
      - opts_exclusive ``allbaselevels' `nobaselevels''
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlable''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
```

```

= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {

```

```

= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if "`lstretch'" == "" {

```

```

= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ````cformat'''
    local cformat ```cformat(`cformat')'''
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(````sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat'''
    local sformat ```sformat(`sformat')'''
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat'''
    local pformat ```pformat(`pformat')'''
}
-
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
-
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fwrapon() option;""
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fwrapon
= opts_exclusive " " fwrapon
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts''' != "" {
= while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
= local fwrapon
    - if `:length local fwrapon' {
= if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }
_____
> _____ end _get_diopts.Wrapo
> n _____
    - if ```fwrap''' != "" {
= if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `fwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a

```

```

> bbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""`options"""
        }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2""'' == "" {
    = if `""'' == "" {
    - GetDiopts DUPs, `options'
    = GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
```

```
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____ end opts_exclusiv  
> e _____  
      - local K : list sizeof namelist  
      - gettoken c_diopts c_opts : namelist  
      - opts_exclusive ``coding' `compare''  
      = opts_exclusive " "  
  
_____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``versus' `compare''  
      = opts_exclusive " "  
  
_____ begin opts_exclusiv  
> e _____  
      - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch

```

```

- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`sformat') > 8 {
        local sformat "%8.2f"
}

```

```

        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `""`sformat"""
    local sformat `sformat(`sformat')"""
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`""`pformat'") > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
    local pformat `pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive "`word' `width'" fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts'"" != "" {
= while `"""!="" != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusiv
> e _____
    - local fvrapon `word' `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }
    _____
> _____ end _get_diopts.Wrapo
> n _____
    - if ``fvwrap'' != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `options'
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95
    _____
> _____ end _get_diopts.GetDiopt
> s _____
    - }
    - else {
        GetDiopts DUPS options, `options'

```

```

    c_local `name2' `""`options"""
}
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if `""`DUPS"" != "" {
= if `"" != "" {
    if (strpos(`""`DUPS""", "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS `""`DUPS'()"'
    }
    di as err "duplicate {bf:`DUPS'} option not allowed"
    exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = `""`S_`sname"""
= sreturn local level = `""95"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k = `""0"""
- }



---


> _____ end _get_diopt
> s _____
    - if `""`markdown"" != "" {
= if "" != "" {
    set linesize `lsize'
}
- if `""`eqselect"" == "" & `eformnote"" != "noeformnote" {
= if "" == "" & "" != "noeformnote" {
- if `""`eformdi""!="" & ("`e(cmd)""!="gnbreg" | `e(prefix)"""
> =="svy") {
    = if `""!="" & ("regress"!="gnbreg" | ""==="svy") {
        local k_eform `r(k_eform)'
        if (`k_eform""==""" {
            local k_eform = 1
        }
        local k_eq `e(k_eq)'
        if (`k_eq""==""" {
            local k_eq = 1
        }
        if (`k_eform'<`k_eq' & `k_eform') {
            if (`e(cmd2)"" == "stintreg" | `e(cmd2)"" == "streg") & (
> `e(cmd)"" == "weibull" | `e(cmd)"" == "gompertz") {
                }
            else {

```

```

_eform_multeq_note efnote : `k_eform' ```tr_item``'
di as txt ```efnote''
}
}
}
- if (`eformmdi'!=0 & `e(noconstant)'==0 & ```eform_co
> ns_ti'!=0 & `e(consonly)'!=1) {
= if (`cmd'!=0 & `cmd'!=1 & `cmd'!=1) {
    if ("`e(cmd)'==asclogit" | "`e(cmd)'==cmclogit" | "`e(cm
> d)'==cmmixlogit" | "`e(cmd)'==cmxtmixlogit" ) {
        local asvar = ```e(ranvars)'`e(fixvars)'`e(indvars)' != ""
        if ```e(casevars)' != "" & `asvar' {
            local note1 "Exponentiated coefficients represent odds ratio
> s for "
            local note2 "alternative-specific variables (first equation)
> and "
            local note3 "{help j_cmrrisk##|_new:relative-risk ratios} "
            local note4 "for case-specific variables."
            di as txt "{p 0 6 2}Note: `note1`note2`note3`note4'{p_end
> }"
        }
    }
    if ```eform_cons_ti' == "Inc. rate" {
        local eform_cons_note "incidence rate"
    }
    else if ```eform_cons_ti' == "Rel. risk" {
        local eform_cons_note "relative risk"
    }
    else if ```eform_cons_ti' == "Health" {
        local eform_cons_note "health (probability of no disease)"
    }
    else {
        local eform_cons_note = strtolower(`eform_cons_ti')
    }
    local eform_cons_note "baseline `eform_cons_note'"
    if ("`e(cmd2)'==") {
        local cmd `e(cmd)'
    }
    else {
        local cmd `e(cmd2)'
    }
    local f2 = udssubstr(`cmd',1,2)
    local is_re = ("`f2'=='xt" | "`f2'=='me")
    if `is_re' {
        local extranote " (conditional on zero random effects)"
    }
}

```

```

        di as txt "{p 0 6 2}Note: {bf:_cons} estimates " ``eform_con
> s_note``extranote'"' _c
        if ("`e(cmd)'"=="mlogit" | "`e(cmd)'"=="asclogit" | "`e(cmd)
> '"=="cmclogit" | "`e(cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
        di as txt " for each outcome" _c
        }
        di as txt ".{p_end}"
        }
        -
        - return add
        - if !`keepmc' {
        = if !0 {
        - return local mcmethod
        - return local mctitle
        - }



---


> _____ end _coef_tabl
> e _____


---


> _____ end _ereturn_displa
> y _____
        - mat `b2' = e(b)
        = mat __000009 = e(b)
        - drop `xb'
        = drop __000006
        - _predict double `xb' `if'
        = _predict double __000006 if __000002
        - LikePois `y' `xb'`poff' [`weight``exp'] `if', n(`nobs')
        = LikePois piq_timing_max __000006 [] if __000002, n(__000004)



---


> _____ begin poisson.LikePoi
> s _____
        - gettoken y 0 : 0
        - gettoken xb 0 : 0
        - syntax [fw aw pw iw] [if] , Nobs(string)
        - if "`weight'"!=""
        = if ""!=""
            if "`weight'"=="fweight" {
            local wt `"[fw`exp']"
            }
            else if "`weight'"=="iweight" {
            local wt `"[iw`exp']"
            }
            else local wt `"[aw`exp']"
            }
        - tempvar lnf

```

```

    - qui gen double `lnf' = `y`*(`xb')-exp(`xb')-lngamma(`y'+1) `if
> '
    = qui gen double __00000D = piq_timing_max*(__000006)-exp(__0000
> 06)-lngamma(piq_timing_max+1) if __000002
    - summarize `lnf' `wt' `if', meanonly
    = summarize __00000D if __000002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)


---


> _____ end poisson.LikePoi
> s _____
    - tempname lnf2
    - scalar `lnf2' = r(lnf)
    = scalar __00000D = r(lnf)
    - }
    - if _rc { local lnf2 . }
    - if `lnf1'>=. & `lnf1c'>=. & `lnf2'>=. { exit }
    = if __00000A>=. & __00000C>=. & __00000D>=. { exit }
    - if `lnf2'<.&(`lnf2'>`lnf1'|`lnf1'>=.)&(`lnf2'>`lnf1c'|`lnf1c'>=.
> ) {
    = if __00000D<.&(__00000D>__00000A|__00000A>=.)&(__00000D>__00000C
> |__00000C>=.) {
        - ret matrix b0 `b2'
        = ret matrix b0 __000009
        - exit


---


> _____ end poisson.Ipoi
> s _____
    - if "`r(b0)'"!=""
    = if "matrix"!=""
    - tempname from
    - mat `from' = r(b0)
    = mat __000006 = r(b0)
    - }
    - }
    - if "`from'"!=""
    = if "__000006"!=""
    - local initopt `init(`from') search(off)"
    = local initopt `init(__000006) search(off)"
    - }
    - else local initopt "search(on) maxfeas(50)"

```

```

- `vv' ml model `mm' `eval' (`yname': `y' = `xvars', `constan' `offo
> pt') [`weight``exp'] if `touse', collinear missing max nooutput nopreserve `
> mlopts` title(Poisson regression) `scpt' `robust' `clopt' `initopt' `ll0' `
> negh` `moptobj'
      = version 18, missing: ml model e2 poiss_lf (piq_timing_max: piq_tim
> ing_max = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo
> open wlth, ) [] if __000002, collinear missing max nooutput nopreserve ti
> tle(Poisson regression) robust init(__000006) search(off) lf0(1 -526.30441
> 52481488) negh


---


> _____ begin m
> l _____
    - if _caller()>=11 {
    - mopt `0'
      = mopt model e2 poiss_lf (piq_timing_max: piq_timing_max = cb_auth
> ors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, ) []
> if __000002, collinear missing max nooutput nopreserve title(Poisson regre
> ssion) robust init(__000006) search(off) lf0(1 -526.3044152481488) negh


---


> _____ begin mop
> t _____
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - gettoken subcmd 0 : 0, parse(" ,")
    - local lcmd : length local subcmd
    - if "`subcmd'" == "clear" {
      = if "model" == "clear" {
        Clear
        exit
      }
    - if `"`subcmd'"' == "hold" {
      = if `"`model'"' == "hold" {
        ml_hold `0'
        exit
      }
    - if `"`subcmd'"' == "unhold" {
      = if `"`model'"' == "unhold" {
        ml_unhold `0'
        exit
      }
    - if "`subcmd'" == "score" {
      = if "model" == "score" {
        if _caller() > 12 {
          `vv' Score `0'
        }
      else {

```

```

Score `0'
}
exit
}
- if "`subcmd'" == "count" {
= if "model" == "count" {
  Count `0'
  exit
}
- if "`subcmd'" == "trace" {
= if "model" == "trace" {
  Trace `0'
  exit
}
- if "`subcmd'" == bsubstr("graph",1,max(2,`lcmd')) {
= if "model" == bsubstr("graph",1,max(2,5)) {
  Graph `0'
  exit
}
- if "`subcmd'" == "init" {
= if "model" == "init" {
  Interactive 0
  `vv' Init `0'
  exit
}
- if "`subcmd'" == bsubstr("maximize",1,max(3,`lcmd')) {
= if "model" == bsubstr("maximize",1,max(3,5)) {
  Interactive 1
  `vv' MaxMin maximize `0'
  exit
}
- if "`subcmd'" == bsubstr("minimize",1,max(3,`lcmd')) {
= if "model" == bsubstr("minimize",1,max(3,5)) {
  Interactive 1
  `vv' MaxMin minimize `0'
  exit
}
- if "`subcmd'" == bsubstr("display",1,max(2,`lcmd')) {
= if "model" == bsubstr("display",1,max(2,5)) {
  Display `0'
  exit
}
- if "`subcmd'" == bsubstr("footnote",1,max(4,`lcmd')) {
= if "model" == bsubstr("footnote",1,max(4,5)) {
  ml_footnote `0'
  exit
}

```

```

        }
- if "`subcmd'" == "," {
= if "model" == "," {
    Display, `0'
    exit
}
- if "`subcmd'" == bsubstr("model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'
= version 18: capture noi Model e2 poiss_lf (piq_timing_max: pi
> q_timing_max = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_
> calvo open wlth, ) [] if __000002, collinear missing max nooutput nopreserv
> e title(Poisson regression) robust init(__000006) search(off) lf0(1 -526.
> 3044152481488) negh


---


> _____ begin mopt.Mode
> l _____
    - local version = string(_caller())
    - local vv : di "version `version':"
    = local vv : di "version 18:"
    - version 12
    - syntax anything(id="model" name=spec) [if] [in] [fw aw pw iw
> ] [, BRACKET COLlinear MISSing CONTINUE lf0(string) INIT(string) CONSTraints
> (string) noCNSNOTEs VCE(passthru) NEGH NOPREserve TECHnique(string) ITERID(s
> tring) CRITtype(string) OBS(numlist max=1 >0) TITle(string) WALDtest(integer
> -1) SVY SUBpop(string) SRSsubpop noSVYadjust SCore(passthru) noOUTput noSCV
> ARS GROUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DER
> IVSCALE(string) DERIV(string) nrderiv GNWMATrix(string) KAUxiliary(numlist i
> nt >=0) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru
> u) moptobj(string) USEVIEWS * ]
        - if `"`moptobj`"" == "" {
        = if `""` == "" {
        - Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop
    - capture drop $ML_samp
    = capture drop
    - capture drop $ML_sample
    = capture drop
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp

```

```

= capture drop
- mata: Mopt_drop_external()
- macro drop ML_*


---


> _____ end mopt.Clea
> r _____
- }
- local maxmin `minimize' `maximize'
= local maxmin maximize
- opts_exclusive "`maxmin'"
= opts_exclusive "maximize"


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts maximize
- local n 0
- while `"`opts'"' != "" {
= while `"`maximize'"' != "" {
- local ++n
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `"`opts'"' != "" {
= while `""' != "" {
- local ++n
- gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if `:length local maxmin' {
= if 8 {
- local interactive 0
- }
- else local interactive 1
- _get_diparmopts, diparmopts(`options') soptions syntaxonly
= _get_diparmopts, diparmopts(search(off)) soptions syntaxonly


---


> _____ begin _get_diparmopt
> s _____

```

```

- if _caller() < 8.2 {
  _get_diparmopts_8 `0'
  exit
}
- version 9
- local version : di "version " string(_caller()) ":""
- syntax [, diparmopts(string asis) EXECute options bottom
> plus SYNTAXonly * ]
  - local goptions `options'
  = local goptions
  - SpliceGlobals junk , `goptions'
  = SpliceGlobals junk ,


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
  - syntax name(id="macro name" name=c_diparm) [, diparm(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
    - if `"`dof`"" == "" & `e(df_r)`"" != "" {
    = if `""` == "" & `210`"! = "" {
      - capture confirm integer number `e(df_r)`
      = capture confirm integer number 210
      - if !c(rc) {
        - local gdof dof(`e(df_r)`)
        = local gdof dof(210)
        - }
        - capture
        - }
        - else local gdof `"`dof`"""
        = else local gdof `"""
        - local glevel `level'
        = local glevel 95
        - local lopt level(`glevel')
        = local lopt level(95)
        - if (`"`diparm`"" == "") exit
        = if (`""` == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
  - local 0 `", `diparmopts`"""
  = local 0 `", search(off)`"
  - local diparmopts
  - local k 0
  - syntax [, diparm(string asis) * ]
  - while `"`diparm`"" != "" {
  = while `""` != "" {
    local ++k

```

```

local single 1
local after
capture _on_colon_parse `diparm'
if !c(rc) {
local single 0
local diparm `""`$before`"""
local after `""`$after`"""
}
capture
SpliceGlobals diparm , diparm(`diparm') `syntaxonly` `gopt
> ions'
local diparm`k' `""`diparm"""
local diparmopts `""`diparmopts' : `diparm"""
if `single' | `":list retok after`"" == "" {
local 0 `", `options`"""
syntax [, diparm(string asis) * ]
}
else {
local diparm `""`after`"""
}
}
- if `""`$options`"" == "" {
= if `"$options" == "" {
syntax [, diparm(string asis) ]
}
- if (`execute` == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `""`search(off)`"""
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `"""
- forval i = 1/`k' {
= forval i = 1/0 {
sreturn local diparm`i' `""`diparm`i`"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- forval k = 1/`$k' {
= forval k = 1/0 {
local diparm`k' `""`$(`diparm`k')`"""
}

```

```

- local ndiparm `s(k)'
= local ndiparm 0
- local options `"`s(options)```"
= local options `"

```

```

- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq`),1,1) == "/" {
= if bsubstr(trim(`piq_timing_max: piq_timing_max = cb_author
> s_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, `"),1,
> 1) == "/" {
    local eq = bsubstr(trim(`eq`),2,.)
    local spec : subinstr local spec `/`eq` `"(`eq`:`fparm`)"
> ', word
}
- else {
- gettoken p1 p2 : eq, parse("()")
- local p2 = trim(`p2`)
= local p2 = trim(`piq_timing_max: piq_timing_max = cb_author
> s_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, `")
- if bsubstr(`p2`,1,1) == "," {
= if bsubstr(`piq_timing_max: piq_timing_max = cb_authors_ext
> vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, `"),1,1) == "
> , {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim(`p2`)
}
- if `p1` `p2` == "()" {
= if `(piq_timing_max: piq_timing_max = cb_authors_ext vint_l
> ate estimated stky_pr_rotemberg stky_pr_calvo open wlth, `") == "()" {
    local spec : subinstr local spec `eq` "(eq`ieq`:", word
}
- }
- }
- while `:length local eqspec` {
= while 3 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq`),1,1) == "/" {
= if bsubstr(trim(`[]`),1,1) == "/" {
    local eq = bsubstr(trim(`eq`),2,.)
    local spec : subinstr local spec `/`eq` `"(`eq`:`fparm`)"
> ', word
}
- else {
- gettoken p1 p2 : eq, parse("()")
- local p2 = trim(`p2`)
= local p2 = trim(``)
- if bsubstr(`p2`,1,1) == "," {
= if bsubstr(``,1,1) == "," {
    gettoken comma p2 : p2, parse(",")
}

```

```

local p2 = trim(```p2'''')
}
- if ```p1```p2''' == "() {
= if ``[]'' == "() {
    local spec : subinstr local spec ``eq'' "(eq`ieq':)", word
}
- }
- }
- while `:length local eqspec' {
= while 0 {
    local ++ieq
    gettoken eq eqspec : eqspec, bind
    if bsubstr(trim(``eq''),1,1) == "/" {
        local eq = bsubstr(trim(``eq''),2,.)
        local spec : subinstr local spec `/`eq' ``(``eq'':`fparm')"
    }
}
else {
    gettoken p1 p2 : eq, parse("()")
    local p2 = trim(```p2'''')
    if bsubstr(``p2'',1,1) == "," {
        gettoken comma p2 : p2, parse(",")
        local p2 = trim(```p2'''')
    }
    if ```p1```p2''' == "() {
        local spec : subinstr local spec ``eq'' "(eq`ieq':)", word
    }
}
}
}
- if `interactive' {
= if 0 {
    SetGlobalVar ML_sample : _MLtua
}
- else {
- global ML_sample : tempvar
- if ```moptobj''' != "" {
= if ``''' != "" {
    global ML_sample `moptobj'$ML_sample
}
- }
- if ```moptobj''' != "" {
= if ``''' != "" {
    cap drop $ML_sample
}
- `vv' mark $ML_sample `if' `in' [`weight``exp'], `zeroweight'
= version 18: mark __000007 if __000002 [],

```

```

        - tempname eqlist
        - .`eqlist' = ._eqlist.new, eqopts(NOCNst FREEParm) eqargo
> pts(OFFset EXPosure) noneedvarlist numdepvars(0) needequal
        = .__000008 = ._eqlist.new, eqopts(NOCNst FREEParm) eqargo
> pts(OFFset EXPosure) noneedvarlist numdepvars(0) needequal
        -class {
        -instance:
        -      array      n_depvars
        -      string     needequal
        -      string     noneedvarlist
        -      string     wtypes
        -      string     collinear
        -      string     nocons
        -      string     nocons_ignore
        -      double    n_eq
        -      string     gl_if
        -      string     gl_in
        -      string     gl_wgt
        -      string     gl_options
        -      _optlist   eq_opts_allowed
        -class {
        -instance:
        -      array options = {}
        -      array names   = {}
        -}
        -      array      eq_list
        -      _optlist   mark_opts
        -      array      mark_list
        -      array      mark_name
        -      _optlist   smark_opts
        -      array      smark_list
        -      array      smark_name
        -      _optlist   rmcoll_opts
        -      array      rmcoll_list
        -      array      rmcoll_name
        -      _optlist   rmdcoll_opts
        -      array      rmdcoll_list
        -      array      rmdcoll_name
        -}



---


> _____ begin _eqlist.ne
> w _____
        - version 9.2
        - ._init


---


> _____ begin _eqlist._ini

```

```

> t _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""
    - .gl_in = ""
    - .gl_wgt = ""
    - .gl_options = ""
    - .eq_list = {}

> _____ end _eqlist._ini
> t _____
    - ._setup `0'
    = ._setup , eqopts(NOCONstant FREEParm) eqargopts(OFFset EXP
> osure) noneedvarlist numdepvars(0) needequal

> _____ begin _eqlist._setu
> p _____
    - version 9.2
    - .mark_list = {}
    - .mark_name = {}
    - .mark_opts.reset

> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}

> _____ end _optlist.rese
> t _____
    - .smark_list = {}
    - .smark_name = {}
    - .smark_opts.reset

> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}

> _____ end _optlist.rese
> t _____
    - .rmcoll_list = {}
    - .rmcoll_name = {}
    - .rmcoll_opts.reset

```

```

> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}

> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset

> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}

> _____ end _optlist.rese
> t _____
    - syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVAR
> LIST COMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLop
> ts(namelist) RMDCOLLOpts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL
> WTYPES(string) IGNORENOCONS ]
        - .eq_opts_allowed.reset

> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}

> _____ end _optlist.rese
> t _____
    - foreach opt of local eqopts {
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt NOCONSTant

> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec')
    = local mname = lower("NOCONSTANT")
    - if "`passthru'" != "" {
    = if "" != "" {

```

```

        local optspec `optspec'(passthru)
    }
- .options.Arrpush "`optspec'"
= .options.Arrpush "NOCONSTant"
- .names.Arrpush "`mname'"
= .names.Arrpush "noconstant"


---


> _____ end _optlist.addop
> t _____
- }
- .eq_opts_allowed.addopt `opt'
= .eq_opts_allowed.addopt FREEParm


---


> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower("`optspec'")
= local mname = lower("FREEParm")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec'"
= .options.Arrpush "FREEParm"
- .names.Arrpush "`mname'"
= .names.Arrpush "freparm"


---


> _____ end _optlist.addop
> t _____
- }
- foreach opt of local eqargopts {
- .eq_opts_allowed.addopt `opt', passthru
= .eq_opts_allowed.addopt OFFset, passthru


---


> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower("`optspec'")
= local mname = lower("OFFset")
- if "`passthru'" != "" {
= if "passthru" != "" {
    local optspec `optspec'(passthru)
= local optspec OFFset(passthru)
- }

```

```

- .options.Arrpush ``optspec''
= .options.Arrpush "OFFset(passthru)"
- .names.Arrpush ``mname''
= .names.Arrpush "offset"


---


> _____ end _optlist.addop
> t _____
- }
- .eq_opts_allowed.addopt `opt', passthru
= .eq_opts_allowed.addopt EXPosure, passthru


---


> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(``optspec'')
= local mname = lower("EXPosure")
- if ``passthru'' != "" {
= if "passthru" != "" {
- local optspec `optspec'(passthru)
= local optspec EXPosure(passthru)
- }
- .options.Arrpush ``optspec''
= .options.Arrpush "EXPosure(passthru)"
- .names.Arrpush ``mname''
= .names.Arrpush "exposure"


---


> _____ end _optlist.addop
> t _____
- }
- local i 0
- foreach opt of local markopts {
    .mark_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local smarkopts {
    .smark_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmcollopts {
    .rmcoll_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmdcollopts {
    .rmdcoll_opts.addopt `opt', passthru
}

```

```

- .n_depvars.Ardropall
- if ``numdepvars'' != "" {
= if "0" != "" {
- foreach ndep of local numdepvars {
- .n_depvars.Arpush `ndep'
= .n_depvars.Arpush 0
- }
- }
- else .n_depvars.Arpush 1
- .needequal = ``needequal''
= .needequal = "needequal"
- .wtypes = ``wtypes''
= .wtypes = ""
- .noneedvarlist = ``needvarlist''
= .noneedvarlist = "noneedvarlist"
- .nocons_ignore = ``ignorenocons''
= .nocons_ignore = ""



---


> _____ end _eqlist._setu
> p _____


---


> _____ end _eqlist.ne
> w _____
- .`eqlist'.parse `spec'
= .__00008.parse (piq_timing_max: piq_timing_max = cb_author
> s_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, ) []


---


> _____ begin _eqlist.pars
> e _____
- version 9.2
- .__init


---


> _____ begin _eqlist._ini
> t _____
- version 9.2
- .n_eq = 0
- .gl_if = ""
- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}



---


> _____ end _eqlist._ini
> t _____
- local MARKOPTLIST ```.mark_opts.dumpoptions'''
```

```

> ----- begin _optlist.dumpoption
> s -----
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

----- end _optlist.dumpoption
> s -----
    = local MARKOPTLIST `"""
    - local SMARKOPTLIST `""`.smark_opts.dumpoptions"""

----- begin _optlist.dumpoption
> s -----
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

----- end _optlist.dumpoption
> s -----
    = local SMARKOPTLIST `"""
    - local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""

----- begin _optlist.dumpoption
> s -----
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""

```

```

- class exit `""`optlist"""
= class exit `"""

> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""

> _____ end _optlist.dumpoption
> s _____
= local RMDCOLLOPTLIST `"""
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SM
> ARKOPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
= _parse expand EQ GL : 0, gweight common(      COLlinear )
- if `EQ_n' == 0 & "`noneedvarlist'" == "" {
= if 1 == 0 & "noneedvarlist" == "" {
    syntax varlist
}
- local rebind = `EQ_n' == 1
= local rebind = 1 == 1
- if `rebind' {
= if 1 {
- tokenize `""`0""", parse(",(),[]"]
= tokenize `"(piq_timing_max: piq_timing_max = cb_authors_ex
> t vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, ) []]", pa
> rse(",(),[]"]
- local rebind = `""`1"" != "(" & `""`2"" == "("
= local rebind = `"(!" != "(" & `"(piq_timing_max: piq_timing
> _max = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo op
> en wlth'" == "("
- }
- if `rebind' {
= if 0 {

```

```

while `:length local 0' {
    gettoken tok 0 : 0, parse(" ,") bind match(par)
    if "`par'" == "(" {
        gettoken nxt : 0
        local nxt = substr(``nxt''',1,1)
        if inlist(``nxt''', "#", "|") {
            local ZERO ``ZERO' (`tok')'''
        }
        else {
            local ZERO ``(`ZERO') (`tok') `0''''
            local 0
        }
    }
    else if inlist(``tok''', "if", "in", ",") {
        local ZERO ``(`ZERO') `tok' `0''''
        local 0
    }
    else if inlist(substr(``tok''',1,1), "#", "|") {
        local ZERO ``ZERO``tok'''
    }
    else {
        local ZERO ``ZERO' `tok'''
    }
}
_parse expand EQ GL : ZERO, gweight common( `MARKOPTLIST'
> `SMARKOPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )
}
- forval i = 1/`EQ_n' {
= forval i = 1/1 {
- if `i' <= `n_depvars.arrnels' {
= if 1 <= 1 {
- local ndep = `n_depvars[`i']'
= local ndep = 0
- }
- .eq_list[`i'] = .eqspec.new, numdepvars(`ndep') `needequ
> al' `noneedvarlist' wtypes(`wtypes') `nocons_ignore'
= .eq_list[1] = .eqspec.new, numdepvars(0) needequal noneed
> varlist wtypes()
    -class {
        -instance:
        - double n_depvars
        - double needequal
        - double needvarlist
        - string wtypes
        - string name
        - string depvars

```

```

-      double  hasequal
-      string  indepvars
-      string  other_markvars
-      double  nocons
-      double  nocons_ignore
-      string  offset
-      double  exposure
-      double  freeparm
-      string  if
-      string  in
-      string  wgt
-      string  options
-}



---


> _____ begin _eqspec.ne
> w _____
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUA
> L noNEEDVARLIST WTYPES(string) IGNORENOCONS ]
- .n_depvars = 1
- if `:list sizeof numdepvars' {
= if 1 {
- .n_depvars = `numdepvars'
= .n_depvars = 0
- }
- .needequal = ("`needequal'" != "")
= .needequal = ("needequal" != "")
- .needvarlist = ("`needvarlist'" == "")
= .needvarlist = ("noneedvarlist" == "")
- .nocons_ignore = ("`ignorenocons'" != "")
= .nocons_ignore = ("" != "")
- .wtypes = "`wtypes'"
= .wtypes = ""



---


> _____ end _eqspec.ne
> w _____
- .eq_list[`i'].parse `._eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[1].parse __key(6000138701c0):piq_timing_max: piq_
> timing_max = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_ca
> lvo open wlth



---


> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(6000138701c0):piq_timing_max: piq_

```

```

> timing_max = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_ca
> lvo open wlth
> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par)
> quotes
    - if ``par'' != "" {
    = if "" != "" {
        local before `"(`before')``"
    }
    - if ```before''' == ":" {
    = if ``_key(6000138701c0)''' == ":" {
        sreturn local after ```after'''"
        exit
    }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while ``''' != ":" & `":piq_timing_max: piq_timing_max
> = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wl
> th'' != "" {
    - gettoken COLON after : after, parse(":") bind match(pa
> r) quotes
    - if ``par'' != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
    }
    - else if ```COLON''' != ":" {
    = else if `":''' != ":" {
        local before ```before' `COLON'''"
        local COLON
    }
    - }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while `":''' != ":" & `":piq_timing_max: piq_timing_max
> = cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wl
> th'' != "" {
    gettoken COLON after : after, parse(":") bind match(pa
> r) quotes
    if ``par'' != "" {
        local before `before' (`COLON')
        local COLON
    }

```

```

        else if `"`COLON`" != ":" {
            local before `"`before` `COLON`"
            local COLON
        }
    }
    - if `"`COLON`" != ":" {
        = if `":` != ":" {
            di as err `'' found where `':` expected"
            exit 198
        }
        - sreturn local before `"`before`"
        = sreturn local before `"_key(6000138701c0)`"
        - sreturn local after `"`after`"
        = sreturn local after `piq_timing_max: piq_timing_max =
> cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlt
> h```

```

```

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)`
    = local ol __key(6000138701c0)
    - if `:list sizeof ol` {
        = if 1 {
        - local OPTLIST `""`.`ol`.dumpoptions```

```

```

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels` {
        = forval i = 1/4 {
        - local optlist `optlist` `.options[`i']'
        = local optlist NOCONSTant
        - }
        - local optlist `optlist` `.options[`i']'
        = local optlist NOCONSTant FREEParm
        - }
        - local optlist `optlist` `.options[`i']'
        = local optlist NOCONSTant FREEParm OFFset(passthru)
        - }
        - local optlist `optlist` `.options[`i']'
        = local optlist NOCONSTant FREEParm OFFset(passthru) EXP
> osure(passthru)
    - }
    - local optlist : list uniq optlist
    - sreturn local optlist `"`optlist`"
    = sreturn local optlist `NOCONSTant FREEParm OFFset(pas

```

```

> sthru) EXPosure(passthru)"
      - class exit `""`optlist"""
      = class exit `'"NOCONSTant FREEParm OFFset(passthru) EXP
> sure(passthru)"
      _____
> _____ end _optlist.dumpoption
> s _____
      = local OPTLIST `'"NOCONSTant FREEParm OFFset(passthru) EXP
> osure(passthru)"
      - local OPTNAMES `""'.`ol'.dumpnames"""
      _____
> _____ begin _optlist.dumpname
> s _____
      - version 9
      - forval i = 1/`.names.arrnels' {
      = forval i = 1/4 {
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freeparm
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freeparm offset
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freeparm offset exposure
      - }
      - local namelist : list uniq namelist
      - sreturn local namelist `""`namelist"""
      = sreturn local namelist `'"noconstant freeparm offset ex
> posure"
      - class exit `""`namelist"""
      = class exit `'"noconstant freeparm offset exposure"""
      _____
> _____ end _optlist.dumpname
> s _____
      = local OPTNAMES `'"noconstant freeparm offset exposure"""
      - local NOCONS constant noconstant
      - if `":list NOCONS & OPTNAMES""' == ""' {
      = if `'"noconstant"' == ""' {
          local NOCONS noCONSTant
          }
      - else local NOCONS
      - }
      - local 0 `""`s(after)"""

```

```

= local 0 `piq_timing_max: piq_timing_max = cb_authors_ex
> t vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth"
- if `''.wtypes''' != "" {
= if `''' != "" {
    local wgt "[`wtypes']"
}
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST'
> `NOCONS' *]
= syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREE
> Parm OFFset(passthru) EXPposure(passthru) *
- local HOLDIF `''if''''
= local HOLDIF `'''
- local HOLDIN `''in''''
= local HOLDIN `'''
- if `wgt''' != "" & `weight''' != "" {
= if `''' != "" & `''' != "" {
    local HOLDWGT `"[`weight``exp']""'
}
- gettoken NAME REST : anything, parse(":")
- if trim(`NAME') == ":" {
= if trim("piq_timing_max") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST' {
= if 10 {
- if strpos(`NAME', ":") {
= if strpos(`piq_timing_max', ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname piq_timing_max


---


> _____ begin _eqspec._confirm_eqnam
> e _____
- version 9.2
- capture confirm number `0'
= capture confirm number piq_timing_max
- if (! c(rc)) exit
- local hasdot = strpos(`'0'','.')
= local hasdot = strpos(`piq_timing_max','.')

```

```

    - if `hasdot' {
    = if 0 {
        syntax varname(ts)
        exit
    }
    - capture syntax name(id="equation name")
    - if (! c(rc)) exit

```

```

> _____ end _eqspec._confirm_eqnam
> e _____
    - }
    - local NAME : list retok NAME
    - gettoken COLON anything : REST, parse(":")
    - }
    - else {
        local NAME
    }
    - gettoken DEPVARS REST : anything, parse("=".)
    - if "`DEPVARS'" == "=" {
    = if "piq_timing_max" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if (`:length local DEPVARS' == 0 & `.n_depvars') {
    = if (15 == 0 & 0) {
        di as err "nothing found where depvar expected"
        exit 198
    }
    - if `"\`REST`"' == "" {
    = if `"\`= cb_authors_ext vint_late estimated stky_pr_rotemb
> erg stky_pr_calvo open wlth"' == "" {
            if 0` `.needequal' {
                if ` `.needvarlist' | (:length local DEPVARS' != 0 & `.n_
> depvars') {
                    di as err "equal sign required to separate depvars from
> indepvars"
                    exit 198
                }
            }
            local DEPVARS
            local n_deps : list sizeof anything
            if `n_deps' != 0 | ` `.needvarlist' {
                if `n_deps' < `.n_depvars' {
                    error 102
                }
                forval j = 1/`.n_depvars' {

```

```

        gettoken YY anything : anything
        local DEPVARS `DEPVARS' `YY'
    }
    local INDEPVARS : list retok anything
}
local hasequal 0
}
- else {
- gettoken EQ INDEPVARS : REST, parse("=") bind
- local hasequal 1
-
- if `:list sizeof DEPVARS' {
= if 1 {
- _fv_check_depvar `DEPVARS'
= _fv_check_depvar piq_timing_max
- tsunab DEPVARS : `DEPVARS'
= tsunab DEPVARS : piq_timing_max

```

```

> _____ begin tsuna
> b _____
    - version 6
    - gettoken user 0: 0, parse(":")
    - gettoken colon 0: 0, parse(":")
    - if `":colon"' != ":" { error 198 }
    = if `":"' != ":" { error 198 }
    - syntax [varlist(ts default=empty)] [, MIN(integer 1) M
> AX(integer 32000) NAME(string)]
    - c_local `user' `varlist'
    = c_local DEPVARS piq_timing_max
    - local n : word count `varlist'
    = local n : word count piq_timing_max
    - if `n'>=`min' & `n'<=`max' { exit }
    = if 1>=1 & 1<=32000 { exit }

```

```

> _____ end tsuna
> b _____
    -
    - if `:list sizeof INDEPVARS' {
    = if 7 {
    - fvunab INDEPVARS : `INDEPVARS'
    = fvunab INDEPVARS : cb_authors_ext vint_late estimated s
> tky_pr_rotemberg stky_pr_calvo open wlth

```

```

> _____ begin fvuna
> b _____
    - version 11

```

```

- _onColonParse `0'
= _onColonParse INDEPVARS : cb_authors_ext vint_late
> estimated stky_pr_rotemberg stky_pr_calvo open wlth


---


> _____ begin _onColonPars
> e _____
    - version 8.2
    - sreturn local before """
    - sreturn local after """
    - gettoken before after : 0, parse(":") bind match(par
> ) quotes
    - if ``par'' != "" {
    = if "" != "" {
        local before `"(`before')"`
    }
    - if ``before''' == ":" {
    = if `"INDEPVARS "'' == ":" {
        sreturn local after `"`after'''"
        exit
    }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while `""' != ":" & `":` cb_authors_ext vint_late es
> timated stky_pr_rotemberg stky_pr_calvo open wlth"'' != "" {
        - gettoken COLON after : after, parse(":") bind match(
> par) quotes
        - if ``par'' != "" {
        = if "" != "" {
            local before `before' (`COLON')
            local COLON
        }
        - else if ```COLON''' != ":" {
        = else if `":"'' != ":" {
            local before `"`before' `COLON'''"
            local COLON
        }
        - }
        - while ```COLON''' != ":" & ```after''' != "" {
        = while `":"'' != ":" & `":` cb_authors_ext vint_late es
> timated stky_pr_rotemberg stky_pr_calvo open wlth"'' != "" {
        - gettoken COLON after : after, parse(":") bind match(
> par) quotes
            if ``par'' != "" {
                local before `before' (`COLON')
                local COLON
            }
            else if ```COLON''' != ":" {

```

```

        local before ```before' `COLON'''"
        local COLON
    }
}
- if ```COLON''' != ":" {
= if ":" != ":" {
    di as err "" found where ":" expected"
    exit 198
}
- sreturn local before ```before'''"
= sreturn local before ``INDEPVARS ''
- sreturn local after ```after'''"
= sreturn local after `` cb_authors_ext vint_late est
> imated stky_pr_rotemberg stky_pr_calvo open wlth"

```

```

> _____ end _on_colon_pars
> e _____
    - local 0 ```s(before)''
    = local 0 ``INDEPVARS ''
    - syntax name(id="macro name" name=user)
    - local 0 ```s(after)''
    = local 0 `` cb_authors_ext vint_late estimated stky_pr
> _rotemberg stky_pr_calvo open wlth"
    - syntax [varlist(ts fv default=none)] [, MIN(integer 1)
> MAX(integer 32000) NAME(string) ]
    - c_local `user' `varlist'
    = c_local INDEPVARS cb_authors_ext vint_late estimated s
> tky_pr_rotemberg stky_pr_calvo open wlth
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
    = if (1 <= 7 & 7 <= 32000) exit

```

```

> _____ end fvuna
> b _____
    - }
- if inlist("noconstant", ``noconstant'', ``constant'') {
= if inlist("noconstant", "", "") {
    if ``INDEPVARS'' == "" & ! `nocons_ignore' {
        di as err "independent variables are required when option
> n noconstant is specified"
        exit 102
    }
    if ``NOCONS'' != "" {
        local options `options' noconstant
    }
    local NOCONS 1

```

```

        }
- else local NOCONS 0
- if `"\`offset`\exposure`" != "" {
= if `""` != "" {
    .check_offset, `offset` `exposure'
    local OFFSET "`s(offset)`"
    local EXPOSURE = ("`exposure`" != "")
    local OTHER `s(offset)`
}
- else local EXPOSURE 0
- local FREEPARM = `"\`freeparm`" != ""
= local FREEPARM = `""` != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if `"\``OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS `"\`OPTIONS`\SPACE`\`OPTNAME`"
    local SPACE " "
}
- }
- if `"\``OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS `"\`OPTIONS`\SPACE`\`OPTNAME`"
    local SPACE " "
}
- }
- if `"\``OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS `"\`OPTIONS`\SPACE`\`OPTNAME`"
    local SPACE " "
}
- }
- if `"\``OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS `"\`OPTIONS`\SPACE`\`OPTNAME`"
    local SPACE " "
}
- }
- if `"\`options`" != "" {
= if `""` != "" {
    local OPTIONS `"\`OPTIONS`\SPACE`\`options`"
}
- .name = `"\`NAME`"
= .name = `"\`piq_timing_max`"
- .depvars = `"\`DEPVARS`"

```

```

= .depvars = `piq_timing_max'
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = `":list retok INDEPVARS"'
= .indepvars = `cb_authors_ext vint_late estimated stky_p
> r_rotemberg stky_pr_calvo open wlth"
- .other_markvars = `":list retok OTHER"'
= .other_markvars = `""'
- .nocons = `NOCONS'
= .nocons = 0
- .if = `HOLDIF'
= .if = `""'
- .in = `HOLDIN'
= .in = `""'
- .wgt = `HOLDWGT'
= .wgt = `""'
- .offset = `OFFSET'
= .offset = `""'
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 0
- .options = `OPTIONS'
= .options = `""'



---


> _____ end _eqspec.pars
> e _____
- }
- local MARKOPTLIST `".mark_opts.dumpoptions"



---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `options['i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `optlist'
= sreturn local optlist `""'
- class exit `optlist'
= class exit `""'



---


> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""'

```

```

- local MARKOPTNAMES `"\`mark_opts.dumpnames"`

> _____ begin _optlist.dumpname
> s
    - version 9
    - forval i = 1/\`names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `\names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `"\`namelist"'
    = sreturn local namelist `""'
    - class exit `"\`namelist"'
    = class exit `""'

> _____ end _optlist.dumpname
> s
    = local MARKOPTNAMES `"""
    - local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "
> (string asis)", all
    - local SMARKOPTLIST `"\`smark_opts.dumpoptions"`

> _____ begin _optlist.dumpoption
> s
    - version 9
    - forval i = 1/\`options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `\options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `"\`optlist"'
    = sreturn local optlist `""'
    - class exit `"\`optlist"'
    = class exit `""'

> _____ end _optlist.dumpoption
> s
    = local SMARKOPTLIST `"""
    - local SMARKOPTNAMES `"\`smark_opts.dumpnames"`

> _____ begin _optlist.dumpname
> s
    - version 9
    - forval i = 1/\`names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `\names[`i']'

```

```

        }
- local namelist : list uniq namelist
- sreturn local namelist `""`namelist"""
= sreturn local namelist `"""
- class exit `""`namelist"""
= class exit `"""



---


> _____ end _optlist.dumpname
> s _____
= local SMARKOPTNAMES `"""
- local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)"
> "(string asis)", all
- local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""



---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMCOLLOPTNAMES `""`.rmcoll_opts.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`names.arrnels' {
= forval i = 1/0 {
    local namelist `namelist' `names[`i']'
}
- local namelist : list uniq namelist
- sreturn local namelist `""`namelist"""
= sreturn local namelist `"""
- class exit `""`namelist"""
= class exit `"""



---


> _____ end _optlist.dumpname

```

```

> s _____
      = local RMDCOLLOPTNAMES `"""
      - local OPTLIST2 : subinstr local RMDCOLLOPTLIST "(passthru)"
> "(string asis)", all
      - local RMDCOLLOPTLIST `""` .rmdcoll_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
      - version 9
      - forval i = 1/`options.arrnels' {
      = forval i = 1/0 {
          local optlist `optlist' `options[`i']'
      }
      - local optlist : list uniq optlist
      - sreturn local optlist `""` optlist"""
      = sreturn local optlist `"""
      - class exit `""` optlist"""
      = class exit `"""

> _____ end _optlist.dumpoption
> s _____
      = local RMDCOLLOPTLIST `"""
      - local RMDCOLLOPTNAMES `""` .rmdcoll_opts.dumpnames"""

> _____ begin _optlist.dumpname
> s _____
      - version 9
      - forval i = 1/`names.arrnels' {
      = forval i = 1/0 {
          local namelist `namelist' `names[`i']'
      }
      - local namelist : list uniq namelist
      - sreturn local namelist `""` namelist"""
      = sreturn local namelist `"""
      - class exit `""` namelist"""
      = class exit `"""

> _____ end _optlist.dumpname
> s _____
      = local RMDCOLLOPTNAMES `"""
      - local OPTLIST3 : subinstr local RMDCOLLOPTLIST "(passthru"
> "(string asis)", all
      - local 0 `", `GL_op"""
      = local 0 `", `"
      - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COL
> linear noCONSTant * ]

```

```

= syntax [,      COLlinear noCONSTANT * ]
- local GL_op ```options```
= local GL_op `"""
- if ```collinear``` != """
= if `""` != """
    local GL_op ```GL_op` `collinear```
    .collinear = ```collinear```
}
- if ```constant``` != """
= if `""` != """
    local GL_op ```GL_op` `constant```
    .nocons = ```constant```
}
- local I 0
- foreach OPT of local MARKOPTNAMES {
    if `:list sizeof `OPT`` {
        .mark_list[`++I`] = ._eqspec.new, numdep(0) wtypes(`.wtype
> s')
        .mark_list[`I`].parse "" : ```OPT``
        .mark_name.Arrpush ```OPT``
    }
}
- local I 0
- foreach OPT of local SMARKOPTNAMES {
    if `:list sizeof `OPT`` {
        .smark_list[`++I`] = ._eqspec.new, numdep(0) wtypes(`.wtyp
> es')
        .smark_list[`I`].parse "" : ```OPT``
        .smark_name.Arrpush ```OPT``
    }
}
- local I 0
- foreach OPT of local RMCOLLOPTNAMES {
    if `:list sizeof `OPT`` {
        .rmcoll_list[`++I`] = ._eqspec.new, numdep(0) wtypes(`.wty
> pes')
        .rmcoll_list[`I`].parse "" : ```OPT``
        .rmcoll_name.Arrpush ```OPT``
    }
}
- local I 0
- foreach OPT of local RMDCOLLOPTNAMES {
    if `:list sizeof `OPT`` {
        .rmdcoll_list[`++I`] = ._eqspec.new, wtypes(`.wtypes')
        .rmdcoll_list[`I`].parse "" : ```OPT``
        .rmdcoll_name.Arrpush ```OPT``
    }
}

```

```

        }
    }
- .n_eq = `EQ_n'
= .n_eq = 1
- .gl_if = `""`GL_if"""
= .gl_if = `"""
- .gl_in = `""`GL_in"""
= .gl_in = `"""
- .gl_wgt = `""`GL_wt"""
= .gl_wgt = `"["
- .gl_options = `":list retok GL_op"""
= .gl_options = `"""



---


> _____ end _eqlist.pars
> e _____
- if "`subpop'" != "" & "`missing'" == "" {
= if "" != "" & "missing" == "" {
    if `interactive' {
        SetGlobalVar ML_samp : _MLtu
    }
    else {
        global ML_samp : tempvar
        if `moptobj' != "" {
            global ML_samp `moptobj'$ML_samp
        }
    }
    tempvar markuse
    _svy_setup $ML_sample $ML_samp, svy subpop(`subpop')
    quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000007
- if "`collinear'" == "" {
= if "collinear" == "" {
    .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if "`missing'" == "" {
= else if "missing" == "" {
    .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000007" != "__000007" {
    `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
    drop `markuse'
}
- local eq_n = `.`eqlist'.eq count'

```

```
> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "count" == "count" {
        - sreturn local value `""`n_eq"""
        = sreturn local value `""`1"""
        - class exit `""`s(value)"""
        = class exit `""`1"""

> _____ end _eqlist.e
> q _____
    = local eq_n = 1
    - global ML_n : copy local eq_n
    - global ML_dim = `.`eqlist'.dim'

> _____ begin _eqlist.di
> m _____
    - version 9.2
    - syntax
    - local neq = `.`eq count'

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "count" == "count" {
        - sreturn local value `""`n_eq"""
        = sreturn local value `""`1"""
        - class exit `""`s(value)"""
        = class exit `""`1"""

> _____ end _eqlist.e
> q _____
    = local neq = 1
    - forval i = 1/`neq' {
    = forval i = 1/1 {
        - local xvars `""`eq indepvars `i`"""

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
```

```

- if ``item'' == "count" {
= if "indepvars" == "count" {
    sreturn local value `".n_eq"
    class exit `"`s(value)``'
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars IND
> EPvars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `w
> gt' `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item indepvars


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `".`item``'
= local value `cb_authors_ext vint_late estimated stky_
> pr_rotemberg stky_pr_calvo open wlth``
- sreturn local value `value``'
= sreturn local value `cb_authors_ext vint_late estimat
> ed stky_pr_rotemberg stky_pr_calvo open wlth``
- class exit `value``'

```

```

= class exit `"$cb_authors_ext vint_late estimated stky_p
> r_rotemberg stky_pr_calvo open wlth"`

> _____ end _eqspec.ite
> m _____
- class exit `"$`s(value)`$"
= class exit `"$cb_authors_ext vint_late estimated stky_pr_
> rotemberg stky_pr_calvo open wlth"`

> _____ end _eqlist.e
> q _____
= local xvarsi `"$cb_authors_ext vint_late estimated stky_pr_
> rotemberg stky_pr_calvo open wlth"`
- local noconsi `"$`.eq nocons `i`$"

> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "nocons" == "count" {
    sreturn local value `"$`.n_eq`$"
    class exit `"$`s(value)`$"
}
- else if 0 < `idx' & `idx' <= `$.n_eq' {
= else if 0 < 1 & 1 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item nocons

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars IND
> EPvars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}

```

```

        - local item `name' `depvars' `indepvars' `if' `in' `w
> gt` `other' `nocons' `offset' `exposure' `freeparm' `options'
      = local item      nocons
      - if `:list sizeof item' != 1 {
      = if 1 != 1 {
        error 198
      }
      - c_local `c_item' `item'
      = c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
      - local value `""`item"""
      = local value `0"""
      - sreturn local value `""`value"""
      = sreturn local value `0"""
      - class exit `""`value"""
      = class exit `0"""


---


> _____ end _eqspec.ite
> m _____
      - class exit `""`s(value)"""
      = class exit `0"""


---


> _____ end _eqlist.e
> q _____
      = local noconsi `0"""
      - local dim = `dim' + `:list sizeof xvars'
      = local dim = + 7
      - if `noconsi' == "0" {
      = if "0" == "0" {
        - local ++dim
      - }
      - }
      - sreturn local value `""`dim"""
      = sreturn local value `8"""
      - class exit `""`s(value)"""
      = class exit `8"""


---


> _____ end _eqlist.di
> m _____
      = global ML_dim = 8
      - forval i = 1/`eq_n' {
      = forval i = 1/1 {
        - local depvars `.``eqlist'.eq depvars `i'


---



```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "depvars" == "count" {
        sreturn local value `".n_eq`"
        class exit ```s(value)`"
    }
    - else if 0 < `idx' & `idx' <= `".n_eq' {
    = else if 0 < 1 & 1 <= 1 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item depvars
    _____ begin _eqspec.ite
    _____
    > m _____
        - version 9.2
        - args item
        - ._check_eq_item_name item, `item'
        = ._check_eq_item_name item, depvars
    _____ begin _eqspec._check_eq_item_nam
    > e _____
        - version 9.2
        - capture syntax name(name=c_item) [, NAME DEPvars INDEP
    > vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
        - if c(rc) error 198
        - if `:list sizeof other' {
        = if 0 {
            local other other_markvars
        }
        - local item `name' `depvars' `indepvars' `if' `in' `wgt
    > `other' `nocons' `offset' `exposure' `freparm' `options'
        = local item depvars
        - if `:list sizeof item' != 1 {
        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item depvars
    _____ end _eqspec._check_eq_item_nam
    > e _____
        - local value `.` `item`"
        = local value `"piq_timing_max"`
        - sreturn local value `.` `value`"

```

```

= sreturn local value `piq_timing_max'
- class exit `value'
= class exit `piq_timing_max'


---


> _____ end _eqspec.ite
> m _____
- class exit `s(value)'
= class exit `piq_timing_max'


---


> _____ end _eqlist.e
> q _____
= local depvars piq_timing_max
- local eq `.eqlist.eq name `i'


---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if `item' == "count" {
= if "name" == "count" {
    sreturn local value `n_eq'
    class exit `s(value)'
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item name


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, name


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt

```

```

> `other` `nocons` `offset` `exposure` `freeparm` `options'
= local item name
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item name


---


> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`.'item'"""
    = local value `piq_timing_max"
    - sreturn local value `""`value"""
    = sreturn local value `piq_timing_max"
    - class exit `""`value"""
    = class exit `piq_timing_max"


---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `piq_timing_max"


---


> _____ end _eqlist.e
> q _____
    = local eq piq_timing_max
    - if !`:length local eq' {
    = if !14 {
        local eq eq`i'
    }
    - if `:list eq in eqnames' {
    = if 0 {
        di as err "equation ``eq'' multiply defined"
        exit 110
    }
    - local eqnames `eqnames' `eq'
    = local eqnames piq_timing_max
    - fvexpand `.`.eqlist'.eq indepvars `i'' if $ML_samp


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "indepvars" == "count" {
        sreturn local value `""`n_eq"""

```

```

        class exit `""`s(value)"""
    }
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 1 & 1 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item indepvars


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""`.`item"""
= local value `cb_authors_ext vint_late estimated stky_pr
> _rotemberg stky_pr_calvo open wlth"
- sreturn local value `""`value"""
= sreturn local value `cb_authors_ext vint_late estimated
> stky_pr_rotemberg stky_pr_calvo open wlth"
- class exit `""`value"""
= class exit `cb_authors_ext vint_late estimated stky_pr_
> rotemberg stky_pr_calvo open wlth"

```

```

> _____ end _eqspec.ite
> m _____
  - class exit ```$value``"
  = class exit ``cb_authors_ext vint_late estimated stky_pr_ro
> temberg stky_pr_calvo open wlth"
  _____
> _____ end _eqlist.e
> q _____
  = fvexpand cb_authors_ext vint_late estimated stky_pr_rotember
> g stky_pr_calvo open wlth if __000007
  - if ``r(tsops)"" == "true" {
  = if "" == "true" {
    global ML_preserve no
  }
  - local eq_rhs`i' ```r(varlist)"""
  = local eq_rhs1 ``cb_authors_ext vint_late estimated stky_pr_r
> otemberg stky_pr_calvo open wlth"
  - local eq_nocons`i' `.`eqlist'.eq nocons `i'"
  _____
> _____ begin _eqlist.e
> q _____
  - version 9.2
  - args item idx
  - if ``item"" == "count" {
  = if "nocons" == "count" {
    sreturn local value ```.n_eq"""
    class exit ```$value``"
  }
  - else if 0 < `idx' & `idx' <= `.`n_eq' {
  = else if 0 < 1 & 1 <= 1 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item nocons
  _____
> _____ begin _eqspec.ite
> m _____
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
  = ._check_eq_item_name item, nocons
  _____
> _____ begin _eqspec._check_eq_item_nam
> e _____
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXposure FREEParm OPTions ]
  - if c(rc) error 198

```

```

        - if `:list sizeof other' {
        = if 0 {
            local other other_markvars
        }
        - local item `name' `deppars' `indepvars' `if' `in' `wgt
> ' `other' `nocons' `offset' `exposure' `freeparm' `options'
        = local item      nocons
        - if `:list sizeof item' != 1 {
        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
        - local value `""`item"""
        = local value `""0"""
        - sreturn local value `""`value"""
        = sreturn local value `""0"""
        - class exit `""`value"""
        = class exit `""0"""


---


> _____ end _eqspec.ite
> m _____
        - class exit `""`s(value)"""
        = class exit `""0"""


---


> _____ end _eqlist.e
> q _____
        = local eq_nocons1 0
        - local eq_offset`i' `.`eqlist'.eq offset `i'''


---


> _____ begin _eqlist.e
> q _____
        - version 9.2
        - args item idx
        - if "`item'" == "count" {
        = if "offset" == "count" {
            sreturn local value `""`n_eq"""
            class exit `""`s(value)"""
        }
        - else if 0 < `idx' & `idx' <= `n_eq' {
        = else if 0 < 1 & 1 <= 1 {
            - .eq_list[`idx'].item `item'
            = .eq_list[1].item offset

```

```

> _____ begin _eqspec.ite
> m _____
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
  = ._check_eq_item_name item, offset
  _____ begin _eqspec._check_eq_item_nam
> e _____
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
  = if 0 {
    local other other_markvars
  }
  - local item `name' `depvars' `indepvars' `if' `in' `wgt
> ' `other' `nocons' `offset' `exposure' `freeparm' `options'
  = local item          offset
  - if `:list sizeof item' != 1 {
  = if 1 != 1 {
    error 198
  }
  - c_local `c_item' `item'
  = c_local item offset
  _____ end _eqspec._check_eq_item_nam
> e _____
  - local value `""`.'item'"""
  = local value `"""
  - sreturn local value `""`value"""
  = sreturn local value `"""
  - class exit `""`value"""
  = class exit `"""
  _____ end _eqspec.ite
> m _____
  - class exit `""`s(value)"""
  = class exit `"""
  _____ end _eqlist.e
> q _____
  = local eq_offset1
  - local eq_exposure`i' `.`.eqlist'.eq exposure `i'

```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "exposure" == "count" {
        sreturn local value `""`n_eq`"""
        class exit `""`s(value)`"""
    }
    - else if 0 < `idx' & `idx' <= `n_eq' {
    = else if 0 < 1 & 1 <= 1 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item exposure

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, exposure

```

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt
> ' `other' `nocons' `offset' `exposure' `freeparm' `options'
    = local item           exposure
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item exposure

```

```

> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`item`"""
    = local value `""`0`"""

```

```

        - sreturn local value `""`value"""
        = sreturn local value `""`0"""
        - class exit `""`value"""
        = class exit `""`0"""

> _____ end _eqspec.ite
> m _____
        - class exit `""`s(value)"""
        = class exit `""`0"""

> _____ end _eqlist.e
> q _____
        = local eq_exposure1 0
        - local eq_freeparm`i' `.`eqlist'.eq freeparm `i'

> _____ begin _eqlist.e
> q _____
        - version 9.2
        - args item idx
        - if "`item'" == "count" {
        = if "freeparm" == "count" {
            sreturn local value `""`.n_eq"""
            class exit `""`s(value)"""
        }
        - else if 0 < `idx' & `idx' <= `.`n_eq' {
        = else if 0 < 1 & 1 <= 1 {
            .eq_list[`idx'].item `item'
            = .eq_list[1].item freeparm

> _____ begin _eqspec.ite
> m _____
        - version 9.2
        - args item
        - ._check_eq_item_name item, `item'
        = ._check_eq_item_name item, freeparm

> _____ begin _eqspec._check_eq_item_nam
> e _____
        - version 9.2
        - capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
        - if c(rc) error 198
        - if `:list sizeof other' {
        = if 0 {
            local other other_markvars
        }


```

```

        - local item `name' `devars' `indepvars' `if' `in' `wgt
> ' `other' `nocons' `offset' `exposure' `freeparm' `options'
        = local item           freeparm
        - if `:list sizeof item' != 1 {
        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item freeparm


---


> _____ end _eqspec._check_eq_item_name
> e _____
        - local value `""` `item` ""
        = local value `""0""`
        - sreturn local value `""` value` ""
        = sreturn local value `""0""`
        - class exit `""` value` ""
        = class exit `""0""`


---


> _____ end _eqspec.ite
> m _____
        - class exit `""` s(value)` ""
        = class exit `""0""`


---


> _____ end _eqlist.e
> q _____
        = local eq_freeparm1 0
        - local lhs `lhs' `devars'
        = local lhs  piq_timing_max
        - local eq_names `eq_names' `eq'
        = local eq_names  piq_timing_max
        - local nxvars :list sizeof eq_rhs` i'
        = local nxvars :list sizeof eq_rhs1
        - local TMP : copy local eq_rhs` i'
        = local TMP : copy local eq_rhs1
        - forval j = 1/`nxvars' {
        = forval j = 1/7 {
        - gettoken xvar TMP : TMP
        - local colna `""` colna` `eq` ":"`xvar` ""
        = local colna `""` piq_timing_max:cb_authors_ext` ""
        - }
        - gettoken xvar TMP : TMP
        - local colna `""` colna` `eq` ":"`xvar` ""
        = local colna `""` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late``
        - }

```

```

    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'"
    = local colna `` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late piq_timing_max:estimated"
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'"
    = local colna `` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg"
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'"
    = local colna `` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timi
> ng_max:stky_pr_calvo"
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'"
    = local colna `` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timi
> ng_max:stky_pr_calvo piq_timing_max:open"
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'"
    = local colna `` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timi
> ng_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth"
    - }
    - if `eq_freeparm`i' {
= if 0 {
    if `nxvars' {
        di as err "{it:xvars} not allowed with option {bf:freeparm}"
        exit 198
    }
    if strpos(``eq'', ":") {
        local colna ``colna' /`eq'''
    }
    else {
        local colna ``colna' /:`eq'''
    }
}
- else if !`eq_nocons`i' {
= else if !0 {
    - local colna ``colna' `eq':_cons"
    = local colna `` piq_timing_max:cb_authors_ext piq_timing_max:
> vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timi

```

```

> ng_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timing_max:
> _cons"
    -
    - if "`moptobj'" != "" {
    = if "" != "" {
        if "`eq_offset`i'" != "" {
            if usubstr("`eq_offset`i'",1,2)=="__" {
                capture clonevar `moptobj`'`eq_offset`i' = `eq_offset`i'
                local dropmetoo `dropmetoo` `moptobj`'`eq_offset`i'
            }
        }
    }
    -
    - if "`moptobj'" != "" {
    = if "" != "" {
        foreach y of local lhs {
            if usubstr("`y'",1,2)=="__" {
                capture clonevar `moptobj`'`y' = `y'
                local tmp `tmp` `moptobj`'`y'
                local dropmetoo `dropmetoo` `moptobj`'`y'
            }
        }
        else {
            local tmp `tmp` `y'
        }
    }
    local lhs `tmp'
}
-
- if `waldtest' > 0 & `:length local lf0' {
= if -1 > 0 & 20 {
    opts_exclusive "waldtest() lf0()"
}
-
- if `:length local continue' {
= if 0 {
    if !`:length local init' {
        tempname init
        local ub0 `init'
    }
    else tempname ub0
    mat `ub0' = e(b)
    tempname v0 iv0
    mat `v0' = e(V)
    mat `iv0' = syminv(`v0')
    global ML_rank0 = colsof(`v0') - diag0cnt(`iv0')
    if !`:length local lf0' & !missing(e(ll)) {
        local lf0 `=colsof(`ub0')` `e(ll)'
    }
}

```

```

        local ub0
    }
- if `:length local init' {
= if 8 {
- tempfile b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000009 = J(1,8,0)
- matrix colna `b0' = `colna'
= matrix colna __000009 = piq_timing_max:cb_authors_ext piq_t
> iming_max:vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_t
> iming_max:_cons
- `vv' _mkvec `b0', from(`init') update first error("initial v
> ector")
= version 18: _mkvec __000009, from(__000006) update first err
> or("initial vector")


---


> _____ begin _mkve
> c _____
- local vv : display "version " string(_caller()) ":"_
- version 6
- gettoken matout 0 : 0, parse(", ")
- if "`matout'"=="" | "`matout'"=="," {
= if "__000009"=="" | "__000009"=="," {
    error 198
}
- syntax [, FROM(str) UPdate COLnames(str) ERRor(str) FIRST
> ]
- if "`update'"!=""
= if "update"!=""
- if "`colname'"!=""
= if ""!=""
    di in red "update and colnames() cannot both be " "specifi
> ed"
    exit 198
}
- capture local colname : colfullnames `matout'
= capture local colname : colfullnames __000009
- if _rc {
    di in red "matrix `matout' not found"
    exit 111
}
- if rowsof(matrix(`matout')) != 1 {
= if rowsof(matrix(__000009)) != 1 {
    di in red "`matout' matrix to be updated must be " "a row

```

```

> vector"
    exit 503
}
- local matin `matout'
= local matin __000009
-
- if ``error''!=``"
= if ``initial vector''!=``"
- local error ```error': ``"
= local error ``initial vector: ``"
-
- tempname mat
- if ``from''!=``"
= if ``__000006''!=``"
- From `from'
= From __000006


---


> _____ begin _mkvec.Fro
> m _____
    - gettoken from 0 : 0, parse(",") bind
    - sret clear
    - sret local from `from'
    = sret local from __000006
    - if ``0''!=``
    = if ``''!=``
        syntax [, COPY SKIP ]
    -
    - sret local copy `copy'
    = sret local copy
    - sret local skip `skip'
    = sret local skip


---


> _____ end _mkvec.Fro
> m _____
    - local copy `s(copy)'
    = local copy
    - local skip `s(skip)'
    = local skip
    - if ``copy''!=``
    = if ``''!=``
        CopyMat `mat' ```error''` `s(from)'
        if ```colname''!=``
        local dim : list sizeof colname
        if `dim' != colsof(matrix(`mat')) {
        di in red ```error'matrix must ```be dimension ```dim'
        exit 503

```

```

        }
        `vv' mat colnames `mat' = `colname'
    }
}
- else {
- `vv' BuildMat `mat' ```error'"' "skip'"' `s(from)'
= version 18: BuildMat __00000A `"initial vector: "' "" __00
> 0006


---


> _____ begin _mkvec.BuildMa
> t _____
        - local vv : display "version " string(_caller()) ":""
        - version 6
        - args matall error skip
        - macro shift 3
        - tokenize ``*'', parse(" =")
= tokenize "__000006", parse(" =")
        - tempfile matadd
        - local i 1
        - while ``i''!=`` {
= while "__000006"!=`` {
        - local k = `i' + 1
= local k = 1 + 1
        - if ``k''==``=`` {
= if ""==``=`` {
            local j = `i' + 2
            `vv' MkMat `matadd' ``i'' ``j'' `skip'
            local i = `i' + 3
        }
        - else {
        - ChkMat `matadd' ``i'' ```error'"
= ChkMat __00000B __000006 `"initial vector: "


---


> _____ begin _mkvec.ChkMa
> t _____
        - args matout matin error
        - capture di matrix(`matin'[1,1])
= capture di matrix(__000006[1,1])
        - if _rc {
            capture confirm number `matin'
            if _rc {
                di in red ```error'matrix `matin' not found''
                exit 111
            }
            di in red ```error'list of numbers requires copy option
> n"'

```

```

        exit 198
    }
- if matrix(rowsof(`matin')!=1 & colsof(`matin')!=1) {
= if matrix(rowsof(__000006)!=1 & colsof(__000006)!=1) {
    di in red ``matin' " matrix(rowsof(`matin')) " x " mat
> rix(colsof(`matin')) " is not a vector"
    exit 503
}
- if matrix(rowsof(`matin')) == 1 {
= if matrix(rowsof(__000006)) == 1 {
- mat `matout' = `matin'
= mat __00000B = __000006
-
- else mat `matout' = `matin'
= else mat __00000B = __000006

```

```

> _____ end _mkvec.ChkMa
> t _____
    - local i = `i' + 1
    = local i = 1 + 1
    -
    - mat `matall' = nullmat(`matall') , `matadd'
    = mat __00000A = nullmat(__00000A) , __00000B
    -
    - while ```i'''!=''' {
    = while ""!="" {
        local k = `i' + 1
        if ```k'''=="" {
            local j = `i' + 2
            `vv' MkMat `matadd' ``i'' ``j'' `skip'
            local i = `i' + 3
        }
        else {
            ChkMat `matadd' ``i'' ""`error''''
            local i = `i' + 1
        }
        mat `matall' = nullmat(`matall') , `matadd'
    }

```

```

> _____ end _mkvec.BuildMa
> t _____
    - if ```colname'''!=''' {
    = if ```piq_timing_max:cb_authors_ext piq_timing_max:vint_lat
> e piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timing_max:s
> tky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timing_max:_cons'''!
> ="" {

```

```

- `vv' ChkNames `mat' ``matin'' ```colname''' ```error''' "
> skip"" ``first"""
= version 18: ChkNames __00000A "__000009" ``piq_timing_max:
> cb_authors_ext piq_timing_max:vint_late piq_timing_max:estimated piq_timing_
> max:stky_pr_rotemberg piq_timing_max:stky_pr_calvo piq_timing_max:open piq_t
> iming_max:wlth piq_timing_max:_cons"``initial vector: "" "" "first"


---


> _____ begin _mkvec.ChkName
> s _____
- local vv : display "version " string(_caller()) ":""
- version 6
- args mat matin names error skip first
- local dim = colsof(matrix(`mat'))
= local dim = colsof(matrix(__00000A))
- if ``first''!= ""
= if "first"!="" {
- gettoken name : names
- local eq1 = bsubstr(`"name"',1,index(`"name"',""))
= local eq1 = bsubstr(`"piq_timing_max:cb_authors_ext"',1,
> index(`"piq_timing_max:cb_authors_ext"",""))
- }
- tempname new fill x
- local k : list sizeof names
- if ``matin''!= ""
= if "__000009"!= ""
- mat `new' = `matin'
= mat __00000B = __000009
- }
- else {
    mat `new' = J(1,`k',0)
    `vv' mat colnames `new' = `names'
}
- mat `fill' = J(1,`k',0)
= mat __00000C = J(1,8,0)
- local i 1
- while `i' <= `dim' {
= while 1 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,1..1]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if ``eq'' == "/" {
= if "_" == "/" {
    local spec "/`name'"

```

```

        }
- else {
- local spec "`eq':`name'"
= local spec "_:cb_authors_ext"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:cb_authors_ext"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse cb_authors_ext, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(stripe)'
    local ospec "`eq':`oname'"
    }
- }
- `vv' local j = colnumb(`new','`spec``')
= version 18: local j = colnumb(__00000B,"_:cb_authors_ex
> t"))
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec``')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/_:cb_authors_ext" != "" {
    `vv' local j = colnumb(`new','`sspec``')
}
- if `j'==. & `"_`eq`"'== "_" & `"_`eq1`"'!= "" {
= if 1==. & "_"== "_" & `piq_timing_max:"'!= "" {
    `vv' local j = colnumb(`new','`eq1`name``')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1`oname``')
    }
}
- if `j'!=. {
= if 1!=. {
- if `fill'[1,'j'] {
= if __00000C[1,1] {
    _ms_parse_parts `name'
    if !r(omit) {
        if `"_`eq`"'== "_" {
            di in red `error'duplicate ``"entries for `name' fou

```

```

> nd"""
}
else di in red `""' "duplicate entries for `eq':
> `name' found"""
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,1] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,1] = __00000A[1,1]
- }
- else if "`skip'"==" {
= else if ""==" {
if `eq'"=="_{
local spec : copy local name
}
di in red `"'extra parameter "'`spec' found'"'
> n "specify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 1 + 1
- }
- while `i' <= `dim' {
= while 2 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,2..2]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if `eq'" == "/" {
= if "_" == "/" {
local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:vint_late"
- if (usubstr(`eq',1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:vint_late"

```

```

- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse vint_late, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(stripes)'
    local ospec "eq`oname"
}
- }
- `vv' local j = colnumb(`new', `spec')
= version 18: local j = colnumb(_00000B, `_vint_late')
- if `j' == . & "`oname'" != "" {
= if 2 == . & "" != "" {
    `vv' local j = colnumb(`new', `ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 2 == . & "/_vint_late" != "" {
    `vv' local j = colnumb(`new', `sspec')
}
- if `j'==. & "`eq'"=="_" & "`eq1'"!=""
= if 2==. & "_"=="_" & "piq_timing_max:"!=""
    `vv' local j = colnumb(`new', `eq1`name')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new', `eq1`oname')
    }
}
- if `j'!=.
= if 2!=.
- if `fill'[1,`j'] {
= if _00000C[1,2] {
    _ms_parse_parts `name'
    if !r(omit) {
        if "`eq'"=="_"
            di in red ``error'duplicate '' ``entries for `name' fou
> nd''
}
else di in red ``error'' ``duplicate entries for `eq':
> `name' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}

```

```

        }
- else mat `fill'[1,'j']=1
= else mat __00000C[1,2]=1
- mat `new'[1,'j']=`mat'[1,'i']
= mat __00000B[1,2]=__00000A[1,2]
- }
- else if "`skip'"=="" {
= else if ""=="" {
    if "`eq'"=="_"
        local spec : copy local name
    }
    di in red `"'`error'extra parameter "'`spec' found'"'
> n "specify skip option if necessary"
    exit 111
}
- local i = `i'+1
= local i = 2+1
- }
- while `i' <= `dim' {
= while 3 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D=__00000A[1,3..3]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:estimated"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:estimated"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse estimated, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `"`r(stripes)`"'

```

```

    local ospec "`eq':`oname'"
}
}
-
`vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000B,':_:estimated')
- if `j' == . & "`oname'" != "" {
= if 3 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
-
if `j' == . & "`sspec'" != "" {
= if 3 == . & "/:_:estimated" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
-
if `j'==. & ``eq''''=="_" & ``eq1''''!="" {
= if 3==. & "_"=="_" & "piq_timing_max:"'!="" {
    `vv' local j = colnumb(`new','`eq1``name')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1`oname')
    }
}
-
if `j'!=. {
= if 3!=. {
    - if `fill'[1,`j'] {
= if __00000C[1,3] {
        _ms_parse_parts `name'
        if !r(omit) {
            if ``eq''''=="_"
                di in red ``error'duplicate '' ``entries for `name' fou
> nd''
}
else di in red ``error''' ``duplicate entries for `eq':
> `name' found'
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
-
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,3] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,3] = __00000A[1,3]
-
- else if ``skip''''==""
= else if ""==""
    if ``eq''''=="_"
{

```

```

        local spec : copy local name
    }
    di in red `"`error'extra parameter "" `"`spec' found"" _ 
> n "specify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 3 + 1
- }
- while `i' <= `dim' {
= while 4 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,4..4]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:stky_pr_rotemberg"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:stky_pr_rotemberg"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_pr_rotemberg, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `"`r(stripe)```"
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec``')
= version 18: local j = colnumb(__00000B,'_:stky_pr_rotem
> berg``')
- if `j' == . & "`oname'" != "" {
= if 4 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec``')

```

```

        }
- if `j' == . & ``sspec'' != "" {
= if 4 == . & "/:_:stky_pr_rotemberg" != "" {
  `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq'''=="_" & ``eq1'''!=""
= if 4==. & "_'"=="_" & ``piq_timing_max:'!= ""
  `vv' local j = colnumb(`new','`eq1``name')
  if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new','`eq1``oname')
  }
}
- if `j'!=.
= if 4!=.
- if `fill'[1,`j'] {
= if __00000C[1,4] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'''=="_"
      di in red ``error'duplicate "' ``entries for `name' fou
> nd"
}
else di in red ``error''' ``duplicate entries for `eq':
> `name' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,4] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,4] = __00000A[1,4]
-
- else if ``skip'''==""
= else if ""==""
  if ``eq'''=="_"
    local spec : copy local name
  }
  di in red ``error'extra parameter "' ``spec' found"_
> n "specify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 4 + 1

```

```

- }
- while `i' <= `dim' {
= while 5 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,5..5]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:stky_pr_calvo"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:stky_pr_calvo"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_pr_calvo, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000B,'_:_stky_pr_calvo
> ")
- if `j' == . & "`oname'" != "" {
= if 5 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 5 == . & "/:_:stky_pr_calvo" != "" {
    `vv' local j = colnumb(`new','`sspec'')
}
- if `j'==. & ``eq''''=="_" & ``eq1''''!="" {
= if 5==. & "_"=="_" & ``piq_timing_max:""!="" {
    `vv' local j = colnumb(`new','`eq1``name'')
}

```

```

        if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`eq1'`oname''')
}
}
- if `j'!=. {
= if 5!=. {
- if `fill'[1,`j'] {
= if __00000C[1,5] {
_ms_parse_parts `name'
if !r(omit) {
if "`eq'"=="_"
di in red ``error'duplicate '' ``entries for `name' fou
> nd''
}
else di in red ``error''' ``duplicate entries for `eq':
> `name' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,5] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,5] = __00000A[1,5]
- }
- else if "`skip'"==""
= else if ""==""
if "`eq'"=="_"
local spec : copy local name
}
di in red ``error'extra parameter '' ``spec' found'' _
> n "specify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 5 + 1
- }
- while `i' <= `dim' {
= while 6 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,6..6]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'

```

```

= local name : colname __00000D
- if ``eq'' == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec ``eq':`name''
= local spec "_:open"
- if (usubstr(``eq'',1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:open"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse open, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000B,"_:open")
- if `j' == . & ``oname'' != "" {
= if 6 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & ``sspec'' != "" {
= if 6 == . & "/_:open" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq'''=="_" & ``eq1'''!="" {
= if 6==. & "_"=="_" & "piq_timing_max:"'!="" {
    `vv' local j = colnumb(`new','`eq1``name')
    if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new','`eq1``oname')
}
}
- if `j'!=. {
= if 6!=. {
- if `fill'[1,'j'] {
= if __00000C[1,6] {
    _ms_parse_parts `name'

```

```

        if !r(omit) {
        if ``eq""=="_"
        di in red `""`error'duplicate "" `""entries for `name' fou
> nd""
}
else di in red `""`error""`""duplicate entries for `eq':
> `name' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,6] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,6] = __00000A[1,6]
- }
- else if ``skip""==""
= else if ""==""
if ``eq""=="_"
local spec : copy local name
}
di in red `""`error'extra parameter "" `""`spec' found"_
> n "specify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 6 + 1
-
- while `i' <= `dim'
= while 7 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,7..7]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if ``eq"" == "/"
= if "_" == "/"
local spec "/`name'"
}
- else {
- local spec ```eq':`name'"
= local spec "_:wlth"
- if (usubstr(``eq'',1,1) != "/") {

```

```

= if (usubstr("_",1,1) != "/") {
- local sspec `/eq`name'
= local sspec "/_:wlth"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wlth, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(stripes)'
    local ospec `eq`oname'
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(_00000B,"_:wlth")
- if `j' == . & "`oname'" != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/_:wlth" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & `eq'=="_" & `eq1'!="!" {
= if 7==. & "_"=="_" & "piq_timing_max:"!="! {
    `vv' local j = colnumb(`new','`eq1`name')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1`oname')
    }
}
- if `j'!=. {
= if 7!=. {
- if `fill'[1,`j'] {
= if _00000C[1,7] {
    _ms_parse_parts `name'
    if !r(omit) {
        if `eq'=="_"
            di in red ``error'duplicate '' ``entries for `name' fou
> nd'
}
else di in red ``error'' ``duplicate entries for `eq':
> `name' found'
exit 507
}

```

```

        else if !missing(`new'[1,`j']) {
            matrix `mat'[1,`i'] = `new'[1,`j']
        }
    }
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,7] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,7] = __00000A[1,7]
- }
- else if "`skip'"==""
= else if ""==""
    if "`eq'"=="_"
        local spec : copy local name
    }
    di in red `"'`error'extra parameter "' `spec' found'"'
> n "specify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 7 + 1
- }
- while `i' <= `dim'
= while 8 <= 8 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,8..8]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/"
= if "_" == "/"
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:_cons"
- if (usubstr("`eq'",1,1) != "/")
= if (usubstr("_",1,1) != "/")
- local sspec "/`eq':`name'"
= local sspec "/:_cons"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse _cons, noomit

```

```

- if c(rc) == 0 {
- if r(omit) {
    local oname `r(strip)`""
    local ospec "`eq':`oname`"
    }
- }
- `vv' local j = colnumb(`new','`spec```)
= version 18: local j = colnumb(_00000B,"_:_cons")
- if `j' == . & "`oname'" != "" {
= if 8 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec```)
}
- if `j' == . & "`sspec'" != "" {
= if 8 == . & "/_:_cons" != "" {
    `vv' local j = colnumb(`new','`sspec```)
}
- if `j'==. & "`eq`"=="_" & "`eq1`"!="`" {
= if 8==. & "_"=="_" & "piq_timing_max:"!="`" {
    `vv' local j = colnumb(`new','`eq1`name```)
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1`oname```)
    }
}
- if `j'!=.
= if 8!=.
- if `fill'[1,`j'] {
= if _00000C[1,8] {
    _ms_parse_parts `name'
    if !r(omit) {
        if "`eq`"=="_" {
            di in red `error'duplicate ``"entries for `name' fou
> nd``
}
else di in red `error`" duplicate entries for `eq`:
> `name' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat _00000C[1,8] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat _00000B[1,8] = _00000A[1,8]
- }

```

```

- else if ``skip''=="" {
= else if ""=="" {
    if ``eq''=="_"
        local spec : copy local name
    }
    di in red ```error'extra parameter '' ```spec' found'' _ 
> n "specify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 8 + 1
-
- while `i' <= `dim' {
= while 9 <= 8 {
    mat `x' = `mat'[1,`i'..`i']
    local eq : coleq `x'
    local name : colname `x'
    if ``eq'' == "/" {
        local spec "/`name'"
    }
    else {
        local spec ``eq':`name''
        if (usubstr(``eq'',1,1) != "/") {
            local sspec "/`eq':`name'"
        }
    }
    local oname
    local ospec
    capture _msparse `name', noomit
    if c(rc) == 0 {
        if r(omit) {
            local oname ```r(stripe)''
            local ospec ``eq':`oname''
        }
    }
    `vv' local j = colnumb(`new','`spec')
    if `j' == . & ``oname'' != "" {
        `vv' local j = colnumb(`new','`ospec')
    }
    if `j' == . & ``sspec'' != "" {
        `vv' local j = colnumb(`new','`sspec')
    }
    if `j'==. & ``eq''=="_" & ``eq1''!="" {
        `vv' local j = colnumb(`new','`eq1``name')
    }
    if `j' == . & ``oname'' != "" {
        `vv' local j = colnumb(`new','`eq1``oname')
    }

```

```

        }
    }
    if `j'!=. {
        if `fill'[1,`j'] {
            _ms_parse_parts `name'
            if !r(omit) {
                if ``eq'"=="_"
                    di in red `"'`error'duplicate "'`"entries for `name' fou
> nd"
                }
            else di in red `"'`error'"'"`"duplicate entries for `eq':
> `name' found"
            exit 507
        }
        else if !missing(`new'[1,`j']) {
            matrix `mat'[1,`i'] = `new'[1,`j']
        }
        else mat `fill'[1,`j'] = 1
        mat `new'[1,`j'] = `mat'[1,`i']
    }
    else if ``skip'"==""
        if ``eq'"=="_"
            local spec : copy local name
        }
        di in red `"'`error'extra parameter "'`"spec' found'"_
> n "specify skip option if necessary"
        exit 111
    }
    local i = `i' + 1
}
- mat `fill' = `fill'*`fill'
= mat __00000C = __00000C*__00000C'
- sret clear
- sret local k_fill = `fill'[1,1]
= sret local k_fill = __00000C[1,1]
- mat `mat' = `new'
= mat __00000A = __00000B


---


> _____ end _mkvec.ChkName
> s _____
- local fill `s(k_fill)'
= local fill 8
- }
- }
- }

```

```

- else {
    local fill 0
    if "`update'"!="`" {
        mat `mat' = `matin'
    }
    else if "`colname'"!="`" {
        local dim : list sizeof colname
        mat `mat' = J(1,`dim',0)
        `vv' mat colnames `mat' = `colname'
    }
    else {
        di in red "from() must be specified"
        exit 198
    }
}
- sret clear
- sret local copy `copy'
= sret local copy
- sret local skip `skip'
= sret local skip
- sret local k = colsof(matrix(`mat'))
= sret local k = colsof(matrix(_00000A))
- if "`fill'"!="`" {
= if "8"!="`" {
    - sret local k_fill `fill'
    = sret local k_fill 8
}
- else sret local k_fill = colsof(matrix(`mat'))
= else sret local k_fill = colsof(matrix(_00000A))
- matrix rename `mat' `matout', replace
= matrix rename _00000A _000009, replace


---


> _____ end _mkve
> c _____
    - }
    - tempfile bomit
    - matrix `bomit' = J(1,:list sizeof colna',0)
    = matrix _00000A = J(1,8,0)
    - matrix colna `bomit' = `colna'
    = matrix colna _00000A = piq_timing_max:cb_authors_ext piq_t
> iming_max:vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_t
> iming_max:_cons
    - _ms OMIT_info `bomit'
    = _ms OMIT_info _00000A
    - if r(k OMIT) | `:length local constraints' {

```

```

= if r(k_omit) | 0 {
    nobreak {
        capture noisily break {
            _b_post0 `colna'
            local clist : subinstr local constraints ",," "", all
            `vv' makecns `clist', `cnsnotes'
            local constraints `""`r(clist)`"""
            local k_autoCns = e(k_autoCns)
            tempname C
            capture matrix `C' = e(Cns)
            local rcc = c(rc)
        }
        local rc = c(rc)
        ereturn clear
    }
    if (`rc') exit `rc'
    if (`rcc') {
        local C
        local k_autoCns
    }
}
- if `:length local constraints' {
= if 0 {
    local lf0
}
- local vce `vce' `robust' `cluster'
= local vce robust
- if `:length local vce' {
= if 6 {
    - _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old
> : `wt', `vce'
= _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old
> : , robust


---


> _____ begin _vce_pars
> e _____
    - version 10
    - _on_colon_parse `0'
= _on_colon_parse , argoptlist(CLuster) optlist(OIM OPG Robu
> st) old : , robust


---


> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before """
    - sreturn local after """

```

```

    - gettokn before after : 0, parse(":") bind match(par) qu
> otes
    - if ``par'' != "" {
    = if "" != "" {
        local before `"(`before')``'
    }
    - if ```before'' == ":" {
    = if `", argoptlist(CLuster) optlist(OIM OPG Robust) old "
> ' == ":" {
        sreturn local after ```after'''
        exit
    }
    - while ```COLON'' != ":" & ```after'' != "" {
    = while `""' != ":" & `": , robust'' != "" {
    - gettokn COLON after : after, parse(":") bind match(par)
> quotes
    - if ``par'' != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
    }
    - else if ```COLON'' != ":" {
    = else if `";'' != ":" {
        local before ```before' `COLON'''
        local COLON
    }
    - }
    - while ```COLON'' != ":" & ```after'' != "" {
    = while `";'' != ":" & `", robust'' != "" {
        gettokn COLON after : after, parse(":") bind match(par)
> quotes
    if ``par'' != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if ```COLON'' != ":" {
        local before ```before' `COLON'''
        local COLON
    }
    - if ```COLON'' != ":" {
    = if `";'' != ":" {
        di as err "" found where ':' expected"
        exit 198
    }
    - sreturn local before ```before'''

```

```

        = sreturn local before `", argoptlist(CLuster) optlist(OIM
> OPG Robust) old """
        - sreturn local after `"`after`"""
        = sreturn local after `", robust`"
_____
> _____ end _on_colon_pars
> e _____
        - local 0 `"`s(before)`"""
        = local 0 `", argoptlist(CLuster) optlist(OIM OPG Robust) ol
> d """
        - local user `"`s(after)`"""
        = local user `", robust`"
        - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPT
> list(namelist) PWallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
        - local touse `varlist'
        = local touse
        - tempname o a
        - .`o' = ._optlist.new
        = .__0000B = ._optlist.new
        - local optlist : list uniq optlist
        - foreach name of local optlist {
        - .`o'.addopt `name'
        = .__0000B.addopt OIM
_____
> _____ begin _optlist.addop
> t _____
        - version 9
        - syntax name(name=optspec) [, PASSthru]
        - local mname = lower(``optspec``)
        = local mname = lower("OIM")
        - if ``passthru`` != "" {
        = if "" != "" {
            local optspec `optspec'(passthru)
        }
        - .options.Arrpush ``optspec``
        = .options.Arrpush "OIM"
        - .names.Arrpush ``mname``
        = .names.Arrpush "oim"
_____
> _____ end _optlist.addop
> t _____
        - }
        - .`o'.addopt `name'
        = .__0000B.addopt OPG
_____
> _____ begin _optlist.addop

```

```

> t -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec`)
    = local mname = lower("OPG")
    - if ``passthru'' != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush ``optspec''
    = .options.Arrpush "OPG"
    - .names.Arrpush ``mname''
    = .names.Arrpush "opg"
    -----

```

```

> ----- end _optlist.addop
> t -----
    - }
    - .`o'.addopt `name'
    = .__00000B.addopt Robust
    -----

```

```

> ----- begin _optlist.addop
> t -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec')
    = local mname = lower("Robust")
    - if ``passthru'' != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush ``optspec''
    = .options.Arrpush "Robust"
    - .names.Arrpush ``mname''
    = .names.Arrpush "robust"
    -----

```

```

> ----- end _optlist.addop
> t -----
    - }
    - .`a' = ._optlist.new
    = .__00000C = ._optlist.new
    - local argoptlist : list uniq argoptlist
    - foreach name of local argoptlist {
    - .`a'.addopt `name'
    = .__00000C.addopt CLuster
    -----

```

```

> ----- begin _optlist.addop

```

```

> t -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(``optspec'')
    = local mname = lower("CLuster")
    - if ``passthru'' != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arppush ``optspec''
    = .options.Arppush "CLuster"
    - .names.Arppush ``mname''
    = .names.Arppush "cluster"
    -----

```

```

> ----- end _optlist.addop
> t -----
    - }
    - local OPTNAMES ```o'.dumpnames'''
    -----

```

```

> ----- begin _optlist.dumpname
> s -----
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/3 {
    - local namelist `namelist' `.names[`i']'
    = local namelist oim
    - }
    - local namelist `namelist' `.names[`i']'
    = local namelist oim opg
    - }
    - local namelist `namelist' `.names[`i']'
    = local namelist oim opg robust
    - }
    - local namelist : list uniq namelist
    - sreturn local namelist ```namelist'''
    = sreturn local namelist ``oim opg robust'''
    - class exit ```namelist'''
    = class exit ``oim opg robust'''
    -----

```

```

> ----- end _optlist.dumpname
> s -----
    = local OPTNAMES ``oim opg robust'''
    - local ARGOPTNAMES ```a'.dumpnames'''
    -----

```

```

> ----- begin _optlist.dumpname
> s -----

```

```

- version 9
- forval i = 1/`names.arnels' {
= forval i = 1/1 {
- local namelist `namelist' `names['`i']'
= local namelist cluster
- }
- local namelist : list uniq namelist
- sreturn local namelist `""`namelist"""
= sreturn local namelist `cluster"
- class exit `""`namelist"""
= class exit `cluster"



---


> _____ end _optlist.dumpname
> s _____
= local ARGOPTNAMES `cluster"
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
    di as err "vcetype `:word 1 of `AND'" specified twice"
    exit 198
}
- local pswallowed : list uniq pswallowed
- local pwlist robust cluster
- foreach n of local pswallowed {
    local lc = lower(`n')
    local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
}
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
}
- }
- local 0 `""`user"""
= local 0 `", robust"""
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster
> ' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(va
> rname) ]

```

```

- if `"`vce`"" != "" {
= if `"" != "" {
    gettoken name args : vce, parse(" ,")
    local args : list retok args
    capture ParseVCE `o' `a' , `name'
    if c(rc) {
        di as err "vcetype {bf:`name'} not allowed"
        exit 198
    }
    local name `r(vce)'
    if "`weight'" == "pweight" & !`:list name in pwlist' {
        di as err "pweights are not allowed with vce(`name')"
        exit 198
    }
    return add
    if `"`robust`"" != "" & !inlist("`name`","`robust`","eim"
> ,`oim","cluster") {
        opts_exclusive "`robust' vce(`name')"
    }
    if "`name'" == "cluster" {
        if `"`args`"" == "" {
            di as err "invalid vce(cluster) option"
            exit 198
        }
        confirm var `args'
        unab args : `args'
        local markout `args'
        if "`cluster'" != "" {
            if !`:list args == cluster' {
                di as err "options cluster() and vce(cluster) are in confl
> ict"
                exit 100
            }
        }
    }
    else if "`cluster'" != "" & !inlist("`name`","eim","oim")
> {
        opts_exclusive "cluster() vce(`name')"
    }
    if `"`args`"" != "" {
        if ! `:list name in ARGOPTNAMES' {
            di as err "invalid vce() option"
            exit 198
        }
        if "`name'" == "hc2" {
            confirm var `args'

```

```

unab args : `args'
local markout `args'
}
return local vceargs `":list retok args`"
}
else if `:list name in ARGOPTNAMES' {
if "`noargopt_is_ok'" == "" {
di as err "invalid vce() option"
exit 198
}
}
}
}
- else {
- if "`weight'" == "pweight" | "`robust'" != "" {
= if "" == "pweight" | "robust" != "" {
- local vce robust
- }
- if "`cluster'" != "" {
= if "" != "" {
local vce cluster
local args `cluster'
local markout `cluster'
}
- return local vce `":vce`"
= return local vce `":robust`"
- return local vceargs `":args`"
= return local vceargs `""`"
- }
- if "`return(vce)'" != "" {
= if "robust" != "" {
- if `":return(vceargs)"' != "" {
= if `":"' != "" {
local ss " "
}
- return local vceopt `":vce(`return(vce)`ss)`return(vceargs
> ')`"
= return local vceopt `":vce(robust)`"
- }
- if "`return(vce)'" == "cluster" {
= if "robust" == "cluster" {
return local cluster `return(vceargs)'
}
- if inlist("`return(vce)", "robust", "cluster") {
= if inlist("robust", "robust", "cluster") {
- return local robust robust
- }

```

```

- if "`touse'" != "" {
= if "" != "" {
    if "`markout'" != "" {
        markout `touse' `markout', strok
    }
}

```

```

> _____ end _vce_pars
> e _____
    - local vce `r(vce)'
    = local vce robust
    - }
    - else if "`weight'" == "pweight" {
    = else if "" == "pweight" {
        local vce robust
    }
    - if `:length local svy' {
    = if 0 {
        local vce svy
    }
    - if `"`vce'"' == "cluster" {
    = if `"`robust'"' == "cluster" {
        local cluster `r(cluster)'
        markout $ML_sample `cluster', strok
    }
    - if `:length local group' {
    = if 0 {
        markout $ML_sample `group', strok
        global ML_group : copy local group
        if bsubstr(`":type `group'"',1,3) == "str" {
            if `interactive' {
                SetGlobalVar ML_grp : _MLgrp
            }
            else {
                global ML_grp : tempvar
                if `"`moptobj'"' != "" {
                    global ML_grp `moptobj'$ML_grp
                }
            }
        quietly egen $ML_grp = group(`group')
        if ! `:length local cluster' {
            local cluster : copy global ML_grp
        }
    }
    else {
        if ! `:length local cluster' {

```

```

    local cluster : copy global ML_group
}
}
}
-
- if "$ML_samp" != "$ML_sample" {
= if "__000007" != "__000007" {
    quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
-
- if `:length local vce' == 0 {
= if 6 == 0 {
    if `""`technique""' == "bhhh" {
        local vce opg
    }
    else local vce oim
}
-
- if inlist(`vce', "robust", "cluster") & bsubstr(`evaltype
> "",1,1) == "d" {
= if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1)
> == "d" {
    local optname = cond(`svy'=="","vce(`vce')","svy")
    di as err "option `optname' is not allowed with evaltype `ev
> altype'"
    exit 198
}
-
- if `:length local crittype' == 0 {
= if 0 == 0 {
-
- if inlist(`vce', "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
    - local crittype "log pseudolikelihood"
}
-
- else local crittype "log likelihood"
}
-
- global ML_waldtest `waldtest'
= global ML_waldtest -1
-
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {
        SetGlobalVar ML_w : _MLw
    }
    else {
        global ML_w : tempvar
        if `""`moptobj""' != "" {
            global ML_w `moptobj'$ML_w
        }
    }
}

```

```

- if `:length local weight' {
= if 0 {
    if `""`moptobj""' != "" {
        cap drop $ML_w
    }
    quietly gen double $ML_w `exp' if $ML_samp
    local wtype `""`weight""'
    local wexp `""`exp""'
    global ML_wtyp : copy local wtype
    global ML_wexp : copy local wexp
    if "`wtype'" == "iweight" | "`svy'" != "" {
        local zeroweight zeroweight
    }
}
- if inlist("`vce'", "svy", "cluster") {
= if inlist("robust", "svy", "cluster") {
    if `interactive' {
        SetGlobalVar ML_subv : _MLsu
    }
    else {
        global ML_subv : tempvar
        if `""`moptobj""' != "" {
            global ML_subv `moptobj'$ML_subv
        }
    }
}
- quietly count if $ML_sample
= quietly count if __000007
- if r(N) == 0 {
    error 2000
}
- if `""`weight""' != "" {
= if `""' != "" {
    quietly count if $ML_sample & $ML_w != 0
    if r(N) == 0 {
        di in gr "all observation have zero weights"
        exit 2000
    }
}
- if `:length local lf0' {
= if 20 {
- if `:list sizeof lf0' != 2 {
= if 2 != 2 {
        di as err "lf0(`lf0') invalid"
        exit 198
}

```

```

    - global ML_k0 : word 1 of `lf0'
    = global ML_k0 : word 1 of 1 -526.3044152481488
    - global ML_ll_0 : word 2 of `lf0'
    = global ML_ll_0 : word 2 of 1 -526.3044152481488
    - confirm integer number $ML_k0
    = confirm integer number 1
    - confirm number $ML_ll_0
    = confirm number -526.3044152481488
    - if $ML_k0 < 0 {
    = if 1 < 0 {
        di as err "lf0(`lf0') invalid"
        exit 198
    }
    - }
    - if "`obs'" == "" {
    = if "" == "" {
        - if "`wtype'" != "fweight" {
        = if "" != "fweight" {
            - quietly count if $ML_sample
            = quietly count if __000007
            - local obs = r(N)
            - }
            - else {
                sum $ML_w if $ML_sample, mean
                local obs = r(sum)
            }
            - }
            - if `:length local iterid' {
            = if 0 {
                local iterid = trim(bsubstr(``iterid''',1,32))
            }
            - if `:length local crittype' {
            = if 20 {
                local crittype = trim(bsubstr(``crittype''',1,32))
                = local crittype = trim(bsubstr(`"log pseudolikelihood"',1,32))
            }
            - if `:length local derivscale' {
            = if 0 {
                confirm matrix `derivscale'
            }
            - if `:length local derivh' {
            = if 0 {
                confirm matrix `derivh'
            }
            - local l : strlen local deriv
        }
    }
}

```

```

    - ParseUsemin, `deriv' len(`l')
    = ParseUsemin, len(0)


---


> _____ begin mopt.ParseUsemi
> n _____
    - capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2
> missingok) NOMIN MIN]
        - if (_rc) {
            syntax [, LEN(integer 0) MIN1(string) NOMIN MIN]
        }
        - if `"`min1`" != "" & `"`nomin`" != "" {
        = if `"" != "" & `"" != "" {
            di as err "options {bf:min()} and {bf:nomin} are mutually
> exclusive"
                exit 198
            }
            - if `"`min`" != "" & `"`nomin`" != "" {
            = if `"" != "" & `"" != "" {
                di as err "options {bf:min} and {bf:nomin} are mutually ex
> clusive"
                    exit 198
                }
                - if (`"`min1`" != "") {
                = if (`"" != "") {
                    if (_rc) {
                        capture confirm matrix `min1'
                    if (_rc) {
                        di as err "option {bf:min()} requires that either two numb
> ers or a 1X2 matrix be specified"
                            exit 198
                        }
                    }
                    local deriv `min1'
                }
                - else if (`"`min`" != "") {
                = else if (`"" != "") {
                    if (`len' > length(`"`min`")) {
                        di as err "option {bf:min()} requires that either two numb
> ers or a 1X2 matrix be specified"
                            exit 198
                        }
                    local deriv 1
                }
                - else {
                    - if (`len' > 0) {
                    = if (0 > 0) {

```

```

        if (``nomin'' == "") {
            di as err "option {bf:min()} requires that either two numb
> ers or a 1X2 matrix be specified"
            exit 198
        }
        else if (`len' > length(``nomin'')) {
            di as err "options {bf:min()} and {bf:nomin} are mutually
> exclusive"
            exit 198
        }
        else {
            local deriv 0
        }
    }
    - else {
        - local deriv 0
        - }
        - }
        - sreturn local deriv `deriv'
    = sreturn local deriv 0

```

```

> _____ end mopt.ParseUseni
> n _____
    - local deriv = s(deriv)
    - if `:length local gnwmatrix' {
    = if 0 {
        confirm matrix `gnwmatrix'
    }
    - `vv' mata: Mopt_model()
    = version 18: mata: Mopt_model()

```

```

> _____ begin mopt_check_program
> m _____
    - version 10
    - args name
    - capture confirm name `name'
    = capture confirm name poiss_lf
    - if c(rc) {
        di as err "unrecognized command: `name' invalid command
> name"
        exit 199
    }
    - capture which `name'
    = capture which poiss_lf
    - if !c(rc) {
        - exit

```

```

> _____ end mopt_check_program
> m _____
  - global ML_stat model
  - if !`interactive' {
  = if !0 {
  - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`mo
> pobj
  = version 18: MaxMin maximize, nooutput search(off) moptobj()
_____
> _____ begin mopt.MaxMi
> n _____
  - local vv : di "version " string(_caller()) ":""
  - version 12
  - ChkMacros
_____
> _____ begin mopt.ChkMacro
> s _____
  - if "$ML_stat" != "model" {
  = if "model" != "model" {
    di as err "you must issue -ml model- first"
    exit 198
  }
  - capture confirm var $ML_samp $ML_w $ML_subv
  = capture confirm var __000007 __000007
  - if c(rc) {
    di as err "Since issuing the -ml model- statement, you h
> ave done something to drop" _n "temporary variables ml added to your data.
> You must start again."
    Clear
    exit 111
  }
_____
> _____ end mopt.ChkMacro
> s _____
  - syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >
> =0) LTOLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=
> 0) QTOLerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numli
> st max=1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly D00
> PT SEArch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCL
> EAR NOL0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GR
> ADient HESSian noSKIpline noOUTput Level(cilevel) moptobj(string) * ]
  - if `:length local nrtolerance' {
  = if 0 {
    opts_exclusive "nrtolerance() `nonrtolerance'"
  }

```

```

- if `:length local qtolerance' {
= if 0 {
    opts_exclusive "qtolerance() `nonrtolerance'"
}
- opts_exclusive "`nonrtolerance' `shownrtolerance'"
= opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts`"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - if `:length local shownrtolerance' {
    = if 0 {
        local showtolerance shownrtolerance
    }
    - if "$ML_preserve" != "no" {
    = if "no" != "no" {
        if `:length local score' {
            di as smcl as err "May not specify {bf:score()} option unl
> ess" _n "      a) estimation subsample is the entire data in memory, or" _n "
>          b) you specify option {bf:nopreserve} on {bf:ml model} statement (meani
> ng" _n "          your evaluation program explicitly restricts itself to obs"
> _n "          for which {bf:$}" "{bf:ML_samp==1}.""
            exit 198
        }
        preserve
        local N = c(N)
        quietly keep if $ML_sample
        if (`N' != c(N)) {
            mata: Mopt_init_regetviews()
        }
    }

```

```

- if `:length local score' {
= if 0 {
    SetupScore ``$ML_evaltype'' ``score''' $ML_n $ML_dim
    local scores ``$s(scores)'''
}
- _parse_iterlog, `nolog' `log'
= _parse_iterlog,


---


> _____ begin _parse_iterlo
> g _____
    - version 16
    - syntax [, NOLOG LOG]
    - if ``log''`nolog''' != "" {
= if "" != "" {
    opts_exclusive ``log' `nolog''
}
- else if ``c(iterlog)''' == "on" {
= else if "on" == "on" {
    - local log log
    - }
    - else {
        local nolog nolog
        }
    - sreturn local log `log'
= sreturn local log log
    - sreturn local nolog `nolog'
= sreturn local nolog


---


> _____ end _parse_iterlo
> g _____
    - local log ``$s(nolog)'''
= local log ""
    - local tropts `log' `dots' `showtolerance' `showstep' `trac
> e' `coefdiffs'
    = local tropts
    - if ``tropts''' != "nolog" {
= if "" != "nolog" {
    - local tropts `tropts' `gradient' `hessian'
= local tropts
    - if ``skipline''' == "" {
= if "" == "" {
    - if ``iterate''' != "0" | `:length local tropts' {
= if "" != "0" | 0 {
        - di

```

```

- }
- }
- }
- else {
    local gradient
    local hessian
    local nolog noglog
}
if "`search'" != "off" & "`iterate'" != "0" {
= if "off" != "off" & "" != "0" {
    if "`search'" == "quietly" {
        local sopts noglog
    }
    else {
        if `:length local tropts' {
            if "`tropts'" != "nolog" {
                local sopts trace
            }
            else local sopts noglog
        }
    }
    if "`search'" == "norescale" {
        local sopts `sopts' norescale
    }
    Search `bounds', nopreserve `sopts' `repeat' `maxmin'
}
tempname value b V iV
`vv' mata: Mopt_maxmin()
= version 18: mata: Mopt_maxmin()

```

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsu `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsu __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x - lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000L==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp

```

```

= qui replace __000000 = piq_timing_max - exp(__00000Q) if
> __000007
    - $ML_ec mlevecsum `lnf' `g' = `score'
    = * mlevecsum __00000L __00000M = __00000
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000L==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __00000L __00000N = exp(__00000Q)


---


> _____ end poiss_l
> f _____
Iteration 0: Log pseudolikelihood = -371.97823


---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x - lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {
        exit


---


> _____ end poiss_l
> f _____


---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x - lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {

```

```

- exit


---


> _____ end poiss_l
> f _____


---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x = lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000L==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
    = qui replace __00000 = piq_timing_max - exp(__00000Q) if
> __000007
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000L __00000M = __00000
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000L==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __00000L __00000N = exp(__00000Q)


---


> _____ end poiss_l
> f _____
Iteration 1: Log pseudolikelihood = -370.367


---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma

```

```

> x = lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {
    - exit
    _____
> f _____ end poiss_l
> f _____
> f _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x = lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {
    - exit
    _____
> f _____ end poiss_l
> f _____
> f _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x = lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000L==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
    = qui replace __00000 = piq_timing_max - exp(__00000Q) if
> __000007
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000L __00000M = __000000

```

```

- if `todo' == 1 | `lnf'==. {
= if 2 == 1 | __00000L==. {
    exit
}
- mllmatsum `lnf' `H' = exp(`xb')
= mllmatsum __00000L __00000N = exp(__00000Q)

```

```

> _____ end poiss_l
> f _____
Iteration 2: Log pseudolikelihood = -370.36387

```

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mllsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mllsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x - lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {
        - exit

```

```

> _____ end poiss_l
> f _____

```

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mllsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mllsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x - lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {
        - exit

```

```

> _____ end poiss_l
> f _____

```

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_ma
> x = lngamma(piq_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000L==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
    = qui replace __00000 = piq_timing_max - exp(__00000Q) if
> __000007
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000L __00000M = __00000
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000L==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __00000L __00000N = exp(__00000Q)

```

```

> _____ end poiss_l
> f _____
Iteration 3: Log pseudolikelihood = -370.36387

```

```

> _____ begin mopt_pos
> t _____
    - args b V C wgt tous depvar
    - if `:length local tous' {
    = if 8 {
        - tempname esamp
        - quietly gen byte `esamp' = `touse'
        = quietly gen byte __00000S = __000007
        - }
        - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname
> (`depvar') buildfvinfo
        = ereturn post __00000Q __00000R [], esample(__00000S) de
> pname(piq_timing_max) buildfvinfo

```

```

> _____ end mopt_pos
> t _____
    - ereturn scalar k_eq_model = abs($ML_waldtest)
    = ereturn scalar k_eq_model = abs(-1)
    - if `:length global ML_ll_0' {
    = if 18 {
        - ereturn scalar ll_0 = $ML_ll_0
        = ereturn scalar ll_0 = -526.3044152481488
        - if `:length global ML_rank0' {
        = if 0 {
            ereturn scalar rank0 = $ML_rank0
            ereturn scalar df_m = e(rank) - $ML_rank0
            }
            - else ereturn scalar df_m = e(rank) - $ML_k0
            = else ereturn scalar df_m = e(rank) - 1
            - }
            - if !`:length global ML_ll_0' | inlist(e(vce), "robust", "c
> luster", "linearized") {
            = if !18 | inlist(e(vce), "robust", "cluster", "linearized")
> {
    - if "$ML_svy" == "" {
    = if "" == "" {
    - _prefix_model_test, minimum
    _____ begin _prefix_model_tes
> t _____
    - version 9
    - syntax [name(name=cmd)] [, svy noADJust noSVYadjust MINi
> mum ]
        - if (inlist(`cmd',"asmixlogit","cmmixlogit","cmxtmixlog
> it")) {
            = if (inlist("","asmixlogit","cmmixlogit","cmxtmixlogit"))
> {
            _asmixtest, `svy' `adjust' `svyadjust'
            exit
            }
            - local K = 1
            - if "`e(k_eq_model)' != "" {
            = if "1" != "" {
                - capture confirm integer number `e(k_eq_model)'
                = capture confirm integer number 1
                - if ! c(rc) {
                - local K = e(k_eq_model)
                - }
                - }
                - if "`e(k_eq_model_skip)' != "" {

```

```

= if "" != "" {
    capture confirm integer number `e(k_eq_model_skip)'
    if ! c(rc) {
        local skip = e(k_eq_model_skip)
    }
}
-
- ereturn local df_m
- ereturn local F
- ereturn local chi2
- ereturn local chi2type
- ereturn local p
- if (`K' == 0) {
= if (1 == 0) {
    exit
}
-
- forval i = 1/`K' {
= forval i = 1/1 {
- if `:list i in skip' {
= if !0 {
- local spec "`spec' ([#`i'])"
= local spec " ([#1])"
- }
- }
- tempname cns omit
- capture matrix `cns' = get(Cns)
= capture matrix _00000S = get(Cns)
- if (c(rc)) local cns
- if "`cns'" != "" {
= if "" != "" {
    local k_autoCns = e(k_autoCns)
    if missing(`k_autoCns') {
        local k_autoCns 0
    }
    if rowsof(`cns') == `k_autoCns' {
        local cns
    }
}
-
- if "`svy'" != "" & "`adjust`svyadjust'" != "" {
= if "" != "" & "" != "" {
    local adjust nosvyadjust
}
-
- else local adjust
- _ms_omit_info e(b), nocons
- matrix `omit' = r(omit)
= matrix _00000T = r(omit)
- capture test `spec', `adjust'

```

```

= capture test  ([#1]),


---


> _____ begin tes
> t _____
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit
}
- is_svy


---


> _____ begin is_sv
> y _____
- version 8
- syntax [, Regression]
- if "`e(prefix)'" == "svy" {
= if `""' == "svy" {
    return scalar is_svy = 1
}
- else if "`regression'" == "" {
= else if "" == "" {
    - return scalar is_svy = ("`e(N_psu)'" != "")
= return scalar is_svy = ("" != "")
}
- else {
    capt mat list e(b)
    local rc = _rc
    return scalar is_svy = ("`e(N_psu)'" != "") & (`rc'
> == 0)
}


---


> _____ end is_sv
> y _____
- local is_svy = r(is_svy)

```

```

- if replay() & `is_svy' == 0 {
= if replay() & 0 == 0 {
    _test `0'
    return add
    exit
}
- version 8
- WaldTest `is_svy' `0'
= WaldTest 0 ([#1]),

```

```

> _____ begin test.WaldTes
> t _____
    - gettoken is_svy 0 : 0
    - if ``is_svy'' == "1" {
    = if "0" == "1" {
        if ``e(complete)'' == "available" {
            di as err `must run svy command with "complete" '''
> "option before using this command"
    exit 301
}
}
    - gettoken tok : 0, parse(" (,) bind
    - local single single
    - local zero ```0'''
    = local zero `` ([#1]), ''
    - if ```tok''' == "(" {
    = if `(` == "(" {
    - local single
    - while ```tok''' == "(" {
    = while `(` == "(" {
    - gettoken tok 0 : 0, parse(" (,) match(paren) bind
    - local eqns ```eqns` ```tok''''''
    = local eqns `` `[#1]''''''
    - gettoken tok : 0, parse(" (,) bind
    - }
    - while ```tok''' == "(" {
    = while `(` == "(" {
        gettoken tok 0 : 0, parse(" (,) match(paren) bind
        local eqns ```eqns` ```tok''''''
        gettoken tok : 0, parse(" (,) bind
        }
    - if ```tok''' != "," & ```tok''' != "" {
    = if `(` != "," & `(` != "" {
        local single single
    }
    - }

```

```

- if ``single''=="single" {
= if ""=="single" {
    local eqns
    local 0 `''`zero'``'
    while ``tok'' != "" & ``tok'' != "," {
        gettoken tok 0 : 0, parse(" ,") bind
        local eqns ```eqns' `tok'``'
        gettoken tok : 0, parse(" ,") bind
    }
    local eqns `````eqns'`````
}
- syntax [, Accumulate noSVYadjust common CONStant MIN
> imum Mtest Mtest2(passthru) noTest COEF matvlc(passthru) DF(numlist max=1 >0
> ) ]
- if ``df'' != "" {
= if "" != "" {
    local dof = `df'
}
- else if ``e(df_r)'' != "" {
= else if "" != "" {
    local dof = e(df_r)
}
- else {
- local dof = .
- }
- if ```mtest``mtest2'' != "" {
= if ``'' != "" {
    if inlist(``e(cmd)'', "svymean", "svytotal", "svyrat
> io") {
        di as err ``mtest option not allowed after `e(cmd)''"
> '
            exit 301
}
_mtest syntax, `mtest' `mtest2'
local mtmethod `r(method)'
}
- if ``mtmethod'' != "" {
= if "" != "" {
    if ``test'' != "" {
        di as err "options mtest and notest may not be combi
> ned"
            exit 198
}
if ``accumulate'' != "" {
        di as err "options mtest and accumulate may not be c
> ombined"
}

```

```

        exit 198
    }
}
-
if `is_svy' {
= if 0 {
    if ```e(cmd)''' == "margins" {
        local vce ```e(model_vce)'''"
    }
    else local vce ```e(vce)'''"
    if inlist(``vce''', "bootstrap", "sdr") {
        if missing(`dof') {
            local svyadjust nosvyadjust
        }
    }
}
-
if !`is_svy' & ``svyadjust''' != "" {
= if !0 & "" != "" {
    di as err "option nosvyadjust is allowed only with s
> vy data"
        exit 198
    }
-
local svy_adjust = `is_svy' & ``svyadjust''' == ""
= local svy_adjust = 0 & "" == ""
-
if `svy_adjust' & missing(`dof') & (missing(e(N_psu)
> ) | missing(e(N_strata))) {
= if 0 & missing(.) & (missing(e(N_psu)) | missing(e(N
> _strata))) {
    di as err "impossible to adjust p-values"
    exit 198
}
-
if `is_svy' & ``test''' == "" {
= if 0 & `''' == "" {
    if ``svyadjust''' == "" {
        di _n as txt "Adjusted Wald test"
    }
    else di _n as txt "Unadjusted Wald test"
}
-
local tmp : subinstr local eqns "==" "", all count(
> local nch)
-
if `nch' > 0 {
= if 0 > 0 {
    di as err "== invalid operator"
    exit 198
}
-
local eqns : subinstr local eqns "==" "=", all
- ExpandExps ``eqns''' ``common''' ``constant'''"

```

```

= ExpandExps `""`[#1]"""


---


> _____ begin test.ExpandExps
> s _____
    - args expns common constant
    - gettoken exp expns : expns
    - while `"`exp'"' != "" {
    = while `""[#1]"' != "" {
    - Expand `"`exp'"' "`common'" "`constant'"'
    = Expand `""[#1]"' """


---


> _____ begin test.Expans
> d _____
    - args exp common constant
    - local junk : subinstr local exp "=" "=" , count(l
> ocal nch) all
    - if `nch' <= 1 {
    = if 0 <= 1 {
    - return local explist `""`exp"""
    = return local explist `""`[#1]"""
    - return local nexp 1
    - exit


---


> _____ end test.Expans
> d _____
    - local explist `""`explist` `r(explist)`"""
    = local explist `""`[#1]"""
    - local nexp = `nexp' + `r(nexp)'
    = local nexp = + 1
    - gettoken exp expns : expns
    - }
    - while `"`exp'"' != "" {
    = while `""'"' != "" {
        Expand `"`exp'"' "`common'" "`constant'"'
        local explist `""`explist` `r(explist)`"""
        local nexp = `nexp' + `r(nexp)'
        gettoken exp expns : expns
    }
    - return local explist `""`explist"""
    = return local explist `""`[#1]"""
    - return local nexp `nexp'
    = return local nexp 1


---


> _____ end test.ExpandExps
> s _____
    - local explist `""`r(explist)`"""

```

```

= local explist `""`"#1"""
- local nexp `r(nexp)`
= local nexp 1
- local acc `accumulate'
= local acc
- foreach exp of local explist {
- quietly _test `exp' , `acc' `common' `constant' note
> st
= quietly _test [#1] ,      notest
- local acc acc
- }
- if "`test'" == "notest" {
= if "" == "notest" {
    _test , notest
    exit
}
- quietly _test , `matvlc'
= quietly _test ,
- if `dof' < . {
= if . < . {
    local testtype F
    tempname F df1 df2 p drop
    if "`r(F)'" != "" {
        scalar `F' = r(F)
    }
    else {
        scalar `F' = r(chi2)/r(df)
    }
    scalar `df1' = r(df)
    scalar `df2' = `dof'
    scalar `p' = Ftail(`df1', `df2', `F')
    scalar `drop' = r(drop)
}
- else {
- local testtype chi2
- tempname chi2 df1 p drop
- scalar `chi2' = r(chi2)
= scalar __00000U = r(chi2)
- scalar `df1' = r(df)
= scalar __00000V = r(df)
- scalar `p' = r(p)
= scalar __00000W = r(p)
- scalar `drop' = r(drop)
= scalar __00000X = r(drop)
}
- local i 1

```

```

- while "`r(dropped_`i')'" != "" {
= while "" != "" {
    local dropped_`i' `r(dropped_`i)'
    local ++i
}
- if `svy_adjust' {
= if 0 {
    if "`df'" != "" {
        local svy_d = `df'
    }
    else if !missing(e(df_r)) {
        local svy_d = e(df_r)
    }
    else local svy_d = e(N_psu)-e(N_strata)
    if missing(`svy_d') {
        di as err "internal error in adjustment for svy"
        exit 10001
    }
    if "`testtype'" == "F" {
        scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
    }
    else {
        tempname F df2
        scalar `F' = ((`svy_d'-`df1'+1)/(`svy_d'*`df1')) * `F'
    }
    scalar `df2' = `svy_d' - `df1' + 1
    if `df2' < 0 {
        scalar `F' = .
    }
    scalar `p' = Ftail(`df1', `df2', `F')
    local testtype F
}
- if "`mtmethod'" != "" {
= if "" != "" {
    tempname R r Rr V b VR tm Wald
    mat `V' = e(V)
    mat `b' = e(b)
    mat `Rr' = get(Rr)
    local nb = rowsof(`V')
    local nr = rowsof(`Rr')
    mat `R' = `Rr'[1...,1..`nb']
    mat `VR' = `R'*`V'*`R'
    mat `r' = `R'*`b' - `Rr'[1...,`=nb'+1']
    mat `Wald' = `r'*syminv(`VR')*`r'
    mat `tm' = J(`nr', 3, .)

```

```

    mat colnames `tm' = `testtype' df p
    forvalues it = 1 / `nr' {
        mat `Wald' = `r'[`it',1]^2 / `VR'[`it','`it']
        mat `tm'[`it',1] = `Wald'[1,1]
        mat `tm'[`it',2] = 1
        if `svy_adjust' {
            mat `tm'[`it',3] = Ftail(1,`svy_d',`tm'[`it',1])
        }
        else if "`testtype'" == "chi2" {
            mat `tm'[`it',3] = chi2tail(1,`tm'[`it',1])
        }
        else {
            mat `tm'[`it',3] = Ftail(1,`df2',`tm'[`it',1])
        }
        if "`mtmethod'" != "noadjust" {
            _mtest adjust `tm', mtest(`mtmethod') pindex(3) appe
> nd
    mat `tm' = r(result)
    local pindex 4
}
else local pindex 3
}
- _test, notest
- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    di as txt "      Constraint `dropped_`i'' dropped"
    local ++i
}
- if "`mtmethod'" == "" {
= if "" == "" {
- di
- if "`testtype'" == "chi2" {
= if "chi2" == "chi2" {
- di as txt _col(12) "chi2(`%3.0f `df1' ')" =" as res
> %8.2f `chi2'
> es %8.2f __00000U
= di as txt _col(12) "chi2(`%3.0f __00000V ')" =" as r
- di as txt _col(10) "Prob > chi2 = " as res %8.4f `p
> '
= di as txt _col(10) "Prob > chi2 = " as res %8.4f __
> 00000W
- }
- else {
    di as txt "      F(`%3.0f `df1' ","%6.0f `df2' ")

```

```

> =" as res %8.2f `F'
      di as txt _col(13) "Prob > F =" as res %10.4f `p'
    }
  -
- else {
  local nexp = rowsof(`tm')
  local nc = colsof(`tm')
  if "`testtype'" == "F" {
  local d "F(df,`='df2')"
  local dip "p > F"
  }
  else {
  local d chi2
  local dip "p > chi2"
  }
  di
  di as txt "{hline 7}{c TT}{hline 30}"
  di as txt "           {c |}{ralign 12:`d'}      df{ralign
> 11:`dip'}"
  di as txt "{hline 7}{c +}{hline 30}"
  forvalues it = 1 / `nexp' {
  di as txt "    (`it') {c |}" as res _col(12) %9.2f `t
> m`[`it',1] _col(22) %6.0f `tm`[`it',2] _col(33) %6.4f `tm`[`it','pindex'] as
>  txt "*"
  }
  di as txt "{hline 7}{c +}{hline 30}"
  di as txt "    All {c |}" as res _col(12) %9.2f ``tes
> ttype'" _col(22) %6.0f `df1' _col(33) %6.4f `p'
  di as txt "{hline 7}{c BT}{hline 30}"
  _mtest footer 1 "`mtmethod'" "*"
}
- if "`coef'" != "" {
= if "" != "" {
  Table
}
- return scalar p = `p'
= return scalar p = __00000W
- return scalar df = `df1'
= return scalar df = __00000V
- if "`testtype'" == "F" {
= if "chi2" == "F" {
  return scalar F = `F'
  return scalar df_r = `df2'
}
- else return scalar chi2 = `chi2'
= else return scalar chi2 = __00000U

```

```

    - return scalar drop = `drop'
    = return scalar drop = __00000X
    - local i 1
    - while "`dropped_`i'" != "" {
    = while "" != "" {
        return scalar dropped_`i' = `dropped_`i''
        local ++i
    }
    - if "`mtmethod'" != "" {
    = if "" != "" {
        return matrix mtest `tm'
        return local mtmethod `mtmethod'
    }


---


> _____ end test.WaldTes
> t _____
    - return add


---


> _____ end tes
> t _____
    - if !c(rc) {
    - if `:length local minimum' {
    = if 7 {
    - quietly test, min


---


> _____ begin tes
> t _____
    - if "`e(cmd)" == "anova" | "`e(cmd)" == "manova" {
    = if "mopt" == "anova" | "mopt" == "manova" {
        AnovaTestChooser `0'
        return add
        exit
    }
    - if "`e(cmd)" == "mixed" {
    = if "mopt" == "mixed" {
        MixedTestChooser `0'
        return add
        exit
    }
    - if _caller() < 8 {
        _test `0'
        return add
        exit
    }
    - is_svy

```

```

> _____ begin is_svy
> y _____
    - version 8
    - syntax [, Regression]
    - if `e(prefix)` == "svy" {
    = if `""` == "svy" {
        return scalar is_svy = 1
    }
    - else if `regression` == "" {
    = else if "" == "" {
        - return scalar is_svy = ("`e(N_psu)` != `")
    = return scalar is_svy = (`` != ``)
    - }
    - else {
        capt mat list e(b)
        local rc = _rc
        return scalar is_svy = ("`e(N_psu)` != `") & (`rc'
> == 0)
    }
    _____ end is_svy
> y _____
    - local is_svy = r(is_svy)
    - if replay() & `is_svy' == 0 {
    = if replay() & 0 == 0 {
        - _test `0'
    = _test , min
        - return add
    - exit
    _____ end tes
> t _____
    - }
    - ereturn scalar df_m = r(df)
    - local drop = r(drop)
    - if `drop' {
    = if 0 {
        local drop 0
        local i 1
        local idrop `r(dropped_`i')'
        while `idrop' != "" {
            if !`omit'[1,`idrop'] {
                local ++drop
            }
            local ++i
            local idrop `r(dropped_`i')'
    }

```

```

        }
    }
- if `drop' == 0 | "`cns'" != "" {
= if 0 == 0 | "" != "" {
- if !missing(e(df_r)) {
    ereturn scalar F = r(F)
}
- else {
- ereturn scalar chi2 = r(chi2)
- ereturn local chi2type Wald
}
- ereturn scalar p = r(p)
}
- else {
if !missing(e(df_r)) {
ereturn scalar F = .
}
else {
ereturn scalar chi2 = .
ereturn local chi2type Wald
}
ereturn scalar p = .
}
}
- else {
if missing(e(df_r)) {
ereturn local chi2type Wald
}
ereturn scalar df_m = 0
}

```

```
> _____ end _prefix_model_tes
> t _____
```

```

        -
- else {
    _prefix_model_test, $ML_svy $ML_noadj
}
-
- else if `:length global ML_ll_0' {
= else if 18 {
    if ```maxmin'"' == "minimize" {
        ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
    }
    else {
        ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
    }
}
```

```

        ereturn scalar p = chi2tail(e(df_m), e(chi2))
        ereturn local chi2type "LR"
    }
- if `:length global ML_wexp' {
= if 0 {
    ereturn local wtype `"$ML_wtyp"'
    ereturn local wexp `"$ML_wexp"'
}
- if `:length global ML_group' {
= if 0 {
    ereturn local group `"$ML_group"'
    if `"`e(clustvar)'"' == "$ML_grp" & "$ML_grp" != "" {
        ereturn local clustvar `"$ML_group"'
    }
}
- ereturn local cmd "ml"
- if `:length local score' {
= if 0 {
    mata: Mopt_score(0)
    ereturn local scorevars `scores'
}
- if "$ML_preserve" != "no" {
= if "no" != "no" {
    restore
    if `"`e(prefix)'"' == "svy" & e(N_strata_omit) {
        tempname v
        quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(
> `v') subpop(`e(subpop)') touse($ML_sample)
    }
    ereturn repost, esample($ML_sample)
}
- if `"`moptobj'"' != "" {
= if `""' != "" {
    local clear noclear
}
- if !`:length local clear' {
= if !0 {
- Clear

```

```

> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop __000007
    - capture drop $ML_samp
    = capture drop __000007

```

```

    - capture drop $ML_sample
    = capture drop __000007
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*

```

```

> _____ end mopt.Clea
> r _____
    - }
    - else {
        capture confirm var $ML_sample
        if c(rc) {
            quietly gen byte $ML_sample = e(sample)
        }
    }
    - if `:length local output' == 0 {
    = if 8 == 0 {
        Display, level(`level') `options'
    }

```

```

> _____ end mopt.MaxMi
> n _____
    - }

```

```

> _____ end mopt.Mode
> l _____
    - if c(rc) {
        local rc = c(rc)
        Clear
        exit `rc'
    }
    - exit

```

```

> _____ end mop
> t _____
    - exit

```

```

> _____ end m
> l _____
    - if "`score'" != "" {
    = if "" != "" {
        label var `scvar' "Score index from poisson"
        rename `scvar' `score'

```

```

        est local scorevars `score'
    }
- est scalar r2_p = 1 - e(ll)/e(ll_0)
- est hidden local gof "poiss_g"
- est local offset "`offvar'"
= est local offset ""
- est local offset1
- est local estat_cmd "poisson_estat"
- est hidden local marginsderiv default N IR
- est local predict "poisso_p"
- est local cmd "poisson"
- global S_E_ll = e(ll)
- global S_E_ll0 `e(ll_0)'
= global S_E_ll0 -526.3044152481488
- global S_E_chi2 = e(chi2)
- global S_E_mdf = e(df_m)
- global S_E_pr2 `e(r2_p)'
= global S_E_pr2 .2962934374184778
- global S_E_nobs = e(N)
- global S_E_tdf = e(N)
- global S_E_off `e(offset)'
= global S_E_off
- global S_E_depv `e(depvar)'
= global S_E_depv piq_timing_max
- global S_E_cmd `e(cmd)'
= global S_E_cmd poisson
- if "`display'"==""
= if "nodisplay"==""
    Display, `irr' level(`level') `diopts'
}
- error `e(rc)'
= error 0


---


> _____ end poisson.Estimat
> e _____
- version 10: ereturn local cmdline `poisson `0''
= version 10: ereturn local cmdline `poisson piq_timing_max cb_author
> s_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth [] if __
> 000000, nodisplay      robust"


---


> _____ end poisson
> n _____
- tempname bp
- mat `bp' = e(b)
= mat __000002 = e(b)
- if "`lrtest'"==""

```

```

= if "nolrtest"=="" {
    tempname llp
    scalar `llp' = e(ll)
}
-
= else if `from'=="" {
= else if `'"'=="" {
    `vvpoin' capture poisson `y' `xvars' [`weight``exp'] if `touse', `offop
> t' `constan' iter(1)
    tempname bp
    mat `bp' = e(b)
}
-
= if `constan'=="" & `from'=="" {
= if ""=="" & `'"'=="" {
- if `offset'!="" {
= if ""!="" {
    SolveC `y' `offset' [`weight``exp'] if `touse', mean(`mean')
    local c = r(_cons)
}
-
= else local c = ln(`mean')
= else local c = ln(__000001)
- tempname b0 ll0
- if `c'<. {
= if .9126142571448463<. {
- mat `b0' = (`c', 0)
= mat __000003 = (.9126142571448463, 0)
-
= else mat `b0' = (0, 0)
= else mat __000003 = (0, 0)
- mat colnames `b0' = `y':_cons ln`parm':_cons
= mat colnames __000003 = piq_timing_max:_cons lnalpha:_cons
- if `weight'=="aweight" {
= if ""=="aweight" {
    local wt `"[aw`exp']"
}
-
= else if `weight'!="" {
= else if ""!="" {
    local wt `"[iw`exp']"
}
-
`nohead' di in gr _n "Fitting constant-only model:"
= di in gr _n "Fitting constant-only model:"

```

```

Fitting constant-only model:
- `vv' ml model `mm' `prog' (`yname': `y'=, `constan' `offopt') /ln`parm
> ' if `touse' `wt', collinear missing max nooutput nopreserve wald(0) init(`b
> 0', copy) search(off) `mlopts' `robust' nocnsnotes `negh'
= version 18: ml model e2 nbreg_lf (piq_timing_max: piq_timing_max=, )
> /lnalpha if __000000 , collinear missing max nooutput nopreserve wald(0) ini
> t(__000003, copy) search(off) robust nocnsnotes negh


---


> _____ begin m
> l _____
- if _caller()>=11 {
- mopt `0'
= mopt model e2 nbreg_lf (piq_timing_max: piq_timing_max=, ) /lnalpha
> if __000000 , collinear missing max nooutput nopreserve wald(0) init(__000
> 03, copy) search(off) robust nocnsnotes negh


---


> _____ begin mop
> t _____
- local vv : di "version " string(_caller()) ":" 
- version 12
- gettoken subcmd 0 : 0, parse(" ,")
- local lcnd : length local subcmd
- if "`subcmd'" == "clear" {
= if "model" == "clear" {
    Clear
    exit
}
- if `"`subcmd`"' == "hold" {
= if `"`model`"' == "hold" {
    ml_hold `0'
    exit
}
- if `"`subcmd`"' == "unhold" {
= if `"`model`"' == "unhold" {
    ml_unhold `0'
    exit
}
- if `"`subcmd`"' == "score" {
= if "model" == "score" {
    if _caller() > 12 {
        `vv' Score `0'
    }
    else {
        Score `0'
    }
    exit
}

```

```

}
- if ``subcmd'' == "count" {
= if "model" == "count" {
  Count `0'
  exit
}
- if ``subcmd'' == "trace" {
= if "model" == "trace" {
  Trace `0'
  exit
}
- if ``subcmd'' == bsubstr("graph",1,max(2,`lcmd')) {
= if "model" == bsubstr("graph",1,max(2,5)) {
  Graph `0'
  exit
}
- if ``subcmd'' == "init" {
= if "model" == "init" {
  Interactive 0
  `vv' Init `0'
  exit
}
- if ``subcmd'' == bsubstr("maximize",1,max(3,`lcmd')) {
= if "model" == bsubstr("maximize",1,max(3,5)) {
  Interactive 1
  `vv' MaxMin maximize `0'
  exit
}
- if ``subcmd'' == bsubstr("minimize",1,max(3,`lcmd')) {
= if "model" == bsubstr("minimize",1,max(3,5)) {
  Interactive 1
  `vv' MaxMin minimize `0'
  exit
}
- if ``subcmd'' == bsubstr("display",1,max(2,`lcmd')) {
= if "model" == bsubstr("display",1,max(2,5)) {
  Display `0'
  exit
}
- if ``subcmd'' == bsubstr("footnote",1,max(4,`lcmd')) {
= if "model" == bsubstr("footnote",1,max(4,5)) {
  ml_footnote `0'
  exit
}
- if ``subcmd'' == ","
= if "model" == ","

```

```

        Display, `0'
        exit
    }
- if ``subcmd'' == bsubstr("model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'
= version 18: capture noi Model e2 nbreg_lf (piq_timing_max: piq_ti
> ming_max=, ) /lnalpha if __000000 , collinear missing max nooutput nopreser
> ve wald(0) init(__000003, copy) search(off) robust nocnsnotes negh


---


> _____ begin mopt.Mode
> l _____
    - local version = string(_caller())
    - local vv : di "version `version':"
    = local vv : di "version 18:"
    - version 12
        - syntax anything(id="model" name=spec) [if] [in] [fw aw pw iw] [
> BRACKET COLLinear MISSing CONTinue lf0(string) INIT(string) CONSTraints(str
> ing) noCNSNOTes VCE(passthru) NEGH NOPREserve TECHnique(string) ITERID(strin
> g) CRITtype(string) OBS(numlist max=1 >0) TItle(string) WALDtest(integer -1)
> SVY SUBpop(string) SRSSubpop noSVYadjust SCore(passthru) noOUTput noSCVARS
> GROUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIVSC
> ALE(string) DERIV(string) nrderiv GNWMATrix(string) KAUxiliary(numlist int >
> =0) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru) m
> optobj(string) USEVIEWS *
    - if ```moptobj''' == "" {
    = if "" == "" {
    - Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop
    - capture drop $ML_samp
    = capture drop
    - capture drop $ML_sample
    = capture drop
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*


---


> _____ end mopt.Clea

```

```

> r -----
  - }
  - local maxmin `minimize' `maximize'
  = local maxmin  maximize
  - opts_exclusive ""`maxmin''"
  = opts_exclusive "maximize"
  -----
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts maximize
  - local n 0
  - while `""`opts""' != ""' {
  = while `""`maximize""' != ""' {
  - local ++n
  - gettoken item`n' opts : opts, bind
  = gettoken item1 opts : opts, bind
  - }
  - while `""`opts""' != ""' {
  = while `""' != ""' {
  - local ++n
  - gettoken item`n' opts : opts, bind
  - }
  - if `n' < 2 {
  = if 1 < 2 {
  - exit
  -----
> ----- end opts_exclusiv
> e -----
  - if `:length local maxmin' {
  = if 8 {
  - local interactive 0
  - }
  - else local interactive 1
  - _get_diparmopts, diparmopts(`options') soptions syntaxonly
  = _get_diparmopts, diparmopts(search(off)) soptions syntaxonly
  -----
> ----- begin _get_diparmopt
> s -----
  - if _caller() < 8.2 {
    _get_diparmopts_8 `0'
    exit
  }
  - version 9

```

```

        - local version : di "version " string(_caller()) ":""
        - syntax [, diparmopts(string asis) EXECute soptions bottom plus
> SYNTAXonly * ]
        - local goptions `options'
= local goptions
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk ,


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
        - syntax name(id="macro name" name=c_diparm) [, diparm(string
> asis) Level(cilevel) dof(passthru) syntaxonly ]
        - if `"`dof`"" == "" & `"`e(df_r)`"" != "" {
= if `""` == "" & `""` != "" {
        capture confirm integer number `e(df_r)'
        if !c(rc) {
        local gdof dof(`e(df_r)')
        }
        capture
        }
        - else local gdof `"`dof`"""
= else local gdof `"""
        - local glevel `level'
= local glevel 95
        - local lopt level(`glevel')
= local lopt level(95)
        - if (`"`diparm`"" == "") exit
= if (`""` == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
        - local 0 `", `diparmopts`"""
= local 0 `", search(off)`"
        - local diparmopts
        - local k 0
        - syntax [, diparm(string asis) * ]
        - while `"`diparm`"" != "" {
= while `""` != "" {
        local ++k
        local single 1
        local after
        capture _on_colon_parse `diparm'
        if !c(rc) {
        local single 0
        local diparm `"`s(before)`"""
        local after `"`s(after)`"""

```

```

}
capture
SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `options
> '
local diparm`k' `""`diparm"""
local diparmopts `""`diparmopts' : `diparm"""
if `single' | `":list retok after""' == "" {
local 0 `", `options"""
syntax [, diparm(string asis) * ]
}
else {
local diparm `""`after"""
}
}
- if `""`soptions""' == "" {
= if `""`soptions'"' == "" {
syntax [, diparm(string asis) ]
}
- if (`execute'"' == "") {
= if ("'" == "") {
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `""`search(off)"'
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `"""`
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `""`diparm`i"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- forval k = 1/`s(k)' {
= forval k = 1/0 {
    local diparm`k' `""`s(diparm`k')"""
}
- local ndiparm `s(k)'
= local ndiparm 0
- local options `""`s(options)"""
= local options `""`search(off)"'
- if `interactive' & `:length local options' {
= if 0 & 11 {
    local 0 , `options'

```

```

syntax [, NOTANOPTION]
}
- if `:length local nopreserve' | `:length local score' {
= if 10 | 0 {
- global ML_preserve no
- }
- else global ML_preserve yes
- gettoken evaltype spec : spec
- confirm name `evaltype'
= confirm name e2
- gettoken evaluator spec : spec
- global ML_evaltype : copy local evaltype
- if `:length local srssubpop' {
= if 0 {
    local 0 , srssubpop
    syntax [, NONOPTION]
    exit 198
}
- if `:length local subpop' {
= if 0 {
    local svy svy
}
- if `:length local svy' {
= if 0 {
    opts_exclusive ``vce' `svy'' vce
    if `:length local weight' {
        di as err "svy option not allowed with weights"
        exit 198
    }
    global ML_noadj : copy local svyadjust
}
- global ML_svy : copy local svy
- if _caller() >= 15 & c(userversion) >= 15 {
- local fparm ", freeparm"
}
- local eqspec : copy local spec
- local ieq 0
- while `:length local eqspec' {
= while 46 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(``eq''),1,1) == "/" {
= if bsubstr(trim(`piq_timing_max: piq_timing_max=, ')',1,1) ==
> "/" {
    local eq = bsubstr(trim(``eq''),2,.)
    local spec : subinstr local spec "/`eq'" `"(``eq'':`fparm')"'', w

```

```

> ord
    }
- else {
- gettoken p1 p2 : eq, parse("()")
- local p2 = trim(``p2```)
= local p2 = trim(`piq_timing_max: piq_timing_max=, ```)
- if bsubstr(`p2``,1,1) == "," {
= if bsubstr("piq_timing_max: piq_timing_max=, ``",1,1) == "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim(``p2```)
}
- if ``p1``p2`` == "()" {
= if `(piq_timing_max: piq_timing_max=, ``)` == "()" {
    local spec : subinstr local spec ``eq`` "(eq`ieq':)", word
}
- }
- }
- while `:length local eqspec' {
= while 9 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq`),1,1) == "/" {
= if bsubstr(trim("/lnalpha"),1,1) == "/" {
- local eq = bsubstr(trim(`eq`),2,.)
= local eq = bsubstr(trim("/lnalpha"),2,.)
- local spec : subinstr local spec `/eq`` `"(``eq``:`fparm')``", w
> ord
= local spec : subinstr local spec `/lnalpha`` `"(lnalpha":, freep
> arm)`", word
- }
- else {
    gettoken p1 p2 : eq, parse("()")
    local p2 = trim(``p2```)
    if bsubstr(`p2``,1,1) == "," {
        gettoken comma p2 : p2, parse(",")
        local p2 = trim(``p2```)
    }
    if ``p1``p2`` == "()" {
        local spec : subinstr local spec ``eq`` "(eq`ieq':)", word
    }
}
- }
- while `:length local eqspec' {
= while 0 {
    local ++ieq
    gettoken eq eqspec : eqspec, bind

```

```

if bsubstr(trim(`eq`),1,1) == "/" {
local eq = bsubstr(trim(`eq`),2,.)
local spec : subinstr local spec "/`eq'" `"(`eq'':`fparm')\"", w
> ord
}
else {
gettken p1 p2 : eq, parse("()")
local p2 = trim(``p2```)
if bsubstr(`p2`,1,1) == "," {
gettken comma p2 : p2, parse(",")
local p2 = trim(``p2```)
}
if ``p1``p2`` == "()" {
local spec : subinstr local spec ``eq'' "(eq`ieq':)", word
}
}
}
}
- if `interactive' {
= if 0 {
SetGlobalVar ML_sample : _MLtua
}
- else {
- global ML_sample : tempvar
- if ``moptobj'' != "" {
= if "" != "" {
global ML_sample `moptobj'$ML_sample
}
- }
- if ``moptobj'' != "" {
= if "" != "" {
cap drop $ML_sample
}
- `vv' mark $ML_sample `if' `in' [`weight``exp'], `zeroweight'
= version 18: mark __000005 if __000000  [],
- tempname eqlist
- .`eqlist' = ._eqlist.new, eqopts(NOCONSTANT FREEParm) eqargopts(
> OFFset EXposure) noneedvarlist numdepvars(0) needequal
= __000006 = ._eqlist.new, eqopts(NOCONSTANT FREEParm) eqargopts(
> OFFset EXposure) noneedvarlist numdepvars(0) needequal
-class {
-instance:
- array n_depvars
- string needequal
- string noneedvarlist
- string wtypes
- string collinear

```

```

-
-      string          nocons
-
-      string          nocons_ignore
-
-      double          n_eq
-
-      string          gl_if
-
-      string          gl_in
-
-      string          gl_wgt
-
-      string          gl_options
-
-      _optlist        eq_opts_allowed
-
-      -class {
-
-      -instance:
-
-          -      array options   = {}
-
-          -      array names     = {}
-
-      -}
-
-      array           eq_list
-
-      _optlist        mark_opts
-
-      array           mark_list
-
-      array           mark_name
-
-      _optlist        smark_opts
-
-      array           smark_list
-
-      array           smark_name
-
-      _optlist        rmcoll_opts
-
-      array           rmcoll_list
-
-      array           rmcoll_name
-
-      _optlist        rmdcoll_opts
-
-      array           rmdcoll_list
-
-      array           rmdcoll_name
-
-}

```

```

> _____ begin _eqlist.ne
> w _____
- version 9.2
- ._init

```

```

> _____ begin _eqlist._ini
> t _____
- version 9.2
- .n_eq = 0
- .gl_if = ""
- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}

```

```

> _____ end _eqlist._ini
> t _____
- ._setup `0'

```

```
= ._setup , eqopts(NOCNStant FREEParm) eqargopts(OFFset EXPosur
> e) noneedvarlist numdepvars(0) needequal
> _____ begin _eqlist._setu
> p _____
    - version 9.2
    - .mark_list = {}
    - .mark_name = {}
    - .mark_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .smark_list = {}
    - .smark_name = {}
    - .smark_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .rmcoll_list = {}
    - .rmcoll_name = {}
    - .rmcoll_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset
```

```

> _____ begin _optlist.rese
> t _____
  - version 9
  - .options = {}
  - .names = {}

> _____ end _optlist.rese
> t _____
  - syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVARLIST
> COMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLopts(n
> amelist) RMDCOLLopts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL WTY
> PES(string) IGNORENOCONS ]
    - .eq_opts_allowed.reset

> _____ begin _optlist.rese
> t _____
  - version 9
  - .options = {}
  - .names = {}

> _____ end _optlist.rese
> t _____
  - foreach opt of local eqopts {
  - .eq_opts_allowed.adopt `opt'
  = .eq_opts_allowed.adopt NOCONSTant

> _____ begin _optlist.addop
> t _____
  - version 9
  - syntax name(name=optspec) [, PASSthru]
  - local mname = lower(`optspec')
  = local mname = lower("NOCONSTant")
  - if "`passthru'" != "" {
  = if "" != "" {
    local optspec `optspec'(passthru)
  }
  - .options.Arrpush "`optspec'"
  = .options.Arrpush "NOCONSTant"
  - .names.Arrpush "`mname'"
  = .names.Arrpush "noconstant"

> _____ end _optlist.addop
> t _____
  - }
  - .eq_opts_allowed.adopt `opt'
  = .eq_opts_allowed.adopt FREEParm

```

```

> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec`)
    = local mname = lower("FREEParm")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "FREEParm"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "freeparm"

```

```

> _____ end _optlist.addop
> t _____
    - }
    - foreach opt of local eqargopts {
    - .eq_opts_allowed.adopt `opt', passthru
    = .eq_opts_allowed.adopt OFFset, passthru

```

```

> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec')
    = local mname = lower("OFFSET")
    - if "`passthru'" != "" {
    = if "passthru" != "" {
        local optspec `optspec'(passthru)
        local optspec OFFset(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "OFFSET(passthru)"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "offset"

```

```

> _____ end _optlist.addop
> t _____
    - }
    - .eq_opts_allowed.adopt `opt', passthru
    = .eq_opts_allowed.adopt EXposure, passthru

```

```

> _____ begin _optlist.addop

```

```

> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(``optspec'')
    = local mname = lower("EXPosure")
    - if ``passthru'' != "" {
    = if "passthru" != "" {
        - local optspec `optspec'(passthru)
        = local optspec EXPosure(passthru)
        - }
        - .options.Arppush ``optspec''
        = .options.Arppush "EXPosure(passthru)"
        - .names.Arppush ``mname''
        = .names.Arppush "exposure"
    _____
> _____ end _optlist.addop
> t _____
    - }
    - local i 0
    - foreach opt of local markopts {
        .mark_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local smarkopts {
        .smark_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmcollopts {
        .rmcoll_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmdcollopts {
        .rmdcoll_opts.addopt `opt', passthru
    }
    - .n_depvars.Arrdropall
    - if ``numdepvars'' != "" {
    = if "0" != "" {
        - foreach ndep of local numdepvars {
            - .n_depvars.Arppush `ndep'
            = .n_depvars.Arppush 0
            - }
            - }
        - else .n_depvars.Arppush 1
        - .needequal = ``needequal''
        = .needequal = "needequal"
        - .wtypes = ``wtypes''

```

```

= .wtypes = ""
- .noneedvarlist = ``needvarlist''
= .noneedvarlist = "noneedvarlist"
- .nocons_ignore = ``ignorenonocons''
= .nocons_ignore = ""

> _____ end _eqlist._setu
> p _____
> _____ end _eqlist.ne
> w _____
    - .`eqlist'.parse `spec'
    = .__000006.parse (piq_timing_max: piq_timing_max=, ) ("lnalpha"
> :, freparm)
> _____ begin _eqlist.pars
> e _____
    - version 9.2
    - ._init
> _____ begin _eqlist._ini
> t _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""
    - .gl_in = ""
    - .gl_wgt = ""
    - .gl_options = ""
    - .eq_list = {}

> _____ end _eqlist._ini
> t _____
    - local MARKOPTLIST ```.mark_opts.dumpoptions"""
> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist ```optlist"""
    = sreturn local optlist `"""
    - class exit ```optlist"""
    = class exit `"""

```

```
> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `"""
- local SMARKOPTLIST `""`.smark_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""

> _____ end _optlist.dumpoption
> s _____
= local SMARKOPTLIST `"""
- local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""

> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
```

```

= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""

```

```

> _____ end _optlist.dumpoption
> s _____
= local RMDCOLLOPTLIST `"""
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARK0
> PTLIST' `RMDCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
= _parse expand EQ GL : 0, gweight common(      COLlinear )
- if `EQ_n' == 0 & "`noneedvarlist'" == "" {
= if 2 == 0 & "noneedvarlist" == "" {
    syntax varlist
}
- local rebind = `EQ_n' == 1
= local rebind = 2 == 1
- if `rebind' {
= if 0 {
    tokenize `""`0"""', parse(",(),[])")
    local rebind = `""`1""' != "(" & `""`2""' == "("
}
- if `rebind' {
= if 0 {
    while `:length local 0' {
        gettoken tok 0 : 0, parse(" ,") bind match(par)
        if "`par'" == "(" {
            gettoken nxt : 0
            local nxt = substr(`""`nxt""',1,1)
            if inlist(`""`nxt""', "#", "|") {
                local ZERO `""`ZERO' (`tok')"""
            }
            else {
                local ZERO `""`(`ZERO') (`tok') `0"""
                local 0
            }
        }
        else if inlist(``tok'', "if", "in", ",") {
            local ZERO `""`(`ZERO') `tok' `0"""
            local 0
        }
        else if inlist(substr(`""`tok""',1,1), "#", "|") {

```

```

        local ZERO `""`ZERO` `tok"""
    }
    else {
        local ZERO `""`ZERO` `tok"""
    }
}
_parse expand EQ GL : ZERO, gweight common( `MARKOPTLIST` `SMA
> RKOPTLIST` `RMCOLLOPTLIST` `RMDCOLLOPTLIST` COLlinear )
}
- forval i = 1/`EQ_n' {
= forval i = 1/2 {
- if `i' <= `n_depvars.arrnels' {
= if 1 <= 1 {
- local ndep = `n_depvars[`i']'
= local ndep = 0
- }
- .eq_list[`i'] = ._eqspec.new, numdepvars(`ndep') `needequal'
> `.noneedvarlist' wtypes(`wtypes') `nocons_ignore'
= .eq_list[1] = ._eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()
    -class {
        -instance:
        - double n_depvars
        - double needequal
        - double needvarlist
        - string wtypes
        - string name
        - string depvars
        - double hasequal
        - string indepvars
        - string other_markvars
        - double nocons
        - double nocons_ignore
        - string offset
        - double exposure
        - double freeparm
        - string if
        - string in
        - string wgt
        - string options
    -}

```

```

> _____ begin _eqspec.ne
> w _____
    - version 9.2
    - syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL no

```

```

> NEEDVARLIST WTYPES(string) IGNORENOCONS ]
    - .n_depvars = 1
    - if `:list sizeof numdepvars' {
    = if 1 {
        - .n_depvars = `numdepvars'
        = .n_depvars = 0
        - }
        - .needequal = ("`needequal'" != "")
        = .needequal = ("needequal" != "")
        - .needvarlist = ("`needvarlist'" == "")
        = .needvarlist = ("noneedvarlist" == "")
        - .nocons_ignore = ("`ignorenocons'" != "")
        = .nocons_ignore = ("" != "")
        - .wtypes = "`wtypes'"
        = .wtypes = ""



---


> _____ end _eqspec.ne
> w _____
    - .eq_list[`i'].parse `.eq_opts_allowed.objkey':`EQ_`i''
    = .eq_list[1].parse __key(600013850dc0):piq_timing_max: piq_timi
> ng_max=


---


> _____ begin _eqspec.pars
> e _____
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(600013850dc0):piq_timing_max: piq_timi
> ng_max=


---


> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par) quot
> es
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"`
        }
    - if `"`before'"' == ":" {
    = if `__key(600013850dc0)"' == ":" {
        sreturn local after `"`after"'
        exit
        }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {

```

```

= while `""' != ":" & `":piq_timing_max: piq_timing_max='` !
> = "" {
- gettoken COLON after : after, parse(":") bind match(par) q
> uotes
- if "`par'" != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if `"`COLON`"' != ":" {
= else if `":`" != ":" {
    local before `"`before' `COLON`"'
    local COLON
}
- }
- while `"`COLON`"' != ":" & `"`after`"' != "" {
= while `":`" != ":" & `":piq_timing_max: piq_timing_max='` !
> = "" {
    gettoken COLON after : after, parse(":") bind match(par) q
> uotes
    if "`par'" != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if `"`COLON`"' != ":" {
        local before `"`before' `COLON`"'
        local COLON
    }
    - if `"`COLON`"' != ":" {
= if `":`" != ":" {
        di as err "' found where ':' expected"
        exit 198
    }
    - sreturn local before `"`before`"'
= sreturn local before `"_key(600013850dc0)`"
- sreturn local after `"`after`"'
= sreturn local after `":piq_timing_max: piq_timing_max='`"


---


> _____ end _on_colon_pars
> e _____
- local ol `s(before)'
= local ol __key(600013850dc0)
- if `:list sizeof ol' {
= if 1 {
- local OPTLIST `"`.`ol'.dumpoptions`"'

```

```

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`options.arrnels' {
    = forval i = 1/4 {
    - local optlist `optlist' `options[`i']'
    = local optlist NOCONSTant
    - }
    - local optlist `optlist' `options[`i']'
    = local optlist NOCONSTant FREEParm
    - }
    - local optlist `optlist' `options[`i']'
    = local optlist NOCONSTant FREEParm OFFset(passthru)
    - }
    - local optlist `optlist' `options[`i']'
    = local optlist NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)
    - }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"$NOCONSTant FREEParm OFFset(passthru"
> u) EXPosure(passthru)"
    - class exit `""`optlist"""
    = class exit `"$NOCONSTant FREEParm OFFset(passthru) EXPosure
> (passthru)"
_____

```

```

> _____ end _optlist.dumpoption
> s _____
    = local OPTLIST `"$NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)"
    - local OPTNAMES `""`ol'.dumpnames"""
_____

```

```

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`names.arrnels' {
    = forval i = 1/4 {
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant
    - }
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant freeparm
    - }
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant freeparm offset

```

```

    - }
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant freparm offset exposure
    - }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `noconstant freparm offset exposu
> re"""
    - class exit `""`namelist"""
    = class exit `noconstant freparm offset exposure"""

> _____ end _optlist.dumpname
> s _____
    = local OPTNAMES `noconstant freparm offset exposure"'
    - local NOCONS constant noconstant
    - if `":list NOCONS & OPTNAMES'"' == "" {
    = if `noconstant'"' == "" {
        local NOCONS noCONSTant
    }
    - else local NOCONS
    }
    - local 0 `":s(after)"'
    = local 0 `piq_timing_max: piq_timing_max=''
    - if `".wtypes'"' != "" {
    = if `""'" != "" {
        local wgt "[`wtypes']"
    }
    - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NO
> ONS' *]
    = syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREEParm
> OFFset(passthru) EXPosure(passthru) *]
    - local HOLDIF `":if"'
    = local HOLDIF `"
    - local HOLDIN `":in"'
    = local HOLDIN `"
    - if `wgt'" != "" & `weight'" != "" {
    = if `"" != "" & `"" != "" {
        local HOLDWGT `"[`weight`exp']"
    }
    - gettoken NAME REST : anything, parse(":")
    - if trim(`NAME') == ":" {
    = if trim(`piq_timing_max') == ":" {
        di as err "nothing found where equation name expected"
        exit 198
    }
    - if `:list sizeof REST' {

```

```

= if 2 {
- if strpos(```NAME''', ":") {
= if strpos(`piq_timing_max'', ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname piq_timing_max


---


> _____ begin _eqspec._confirm_eqnam
> e _____
- version 9.2
- capture confirm number `0'
= capture confirm number piq_timing_max
- if (! c(rc)) exit
- local hasdot = strpos(``0`",".)
= local hasdot = strpos(`piq_timing_max`,".")
- if `hasdot' {
= if 0 {
    syntax varname(ts)
    exit
}
- capture syntax name(id="equation name")
- if (! c(rc)) exit


---


> _____ end _eqspec._confirm_eqnam
> e _____
- }
- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
    local NAME
}
- gettoken DEPVARS REST : anything, parse("=") bind
- if ``DEPVARS'' == "=" {
= if "piq_timing_max" == "=" {
    local REST : copy local anything
    local DEPVARS
}
- if (`:length local DEPVARS' == 0 & `.n_depvars') {
= if (14 == 0 & 0) {

```

```

        di as err "nothing found where depvar expected"
        exit 198
    }
- if ```REST''' == "" {
= if `"="' == "" {
    if 0` .needequal' {
        if ` .needvarlist' | (:length local DEPVARS' != 0 & ` .n_depv
> ars') {
            di as err "equal sign required to separate depvars from inde
> pvars"
            exit 198
        }
    }
    local DEPVARS
    local n_deps : list sizeof anything
    if `n_deps' != 0 | ` .needvarlist' {
        if `n_deps' < ` .n_depvars' {
            error 102
        }
        forval j = 1/` .n_depvars' {
            gettoken YY anything : anything
            local DEPVARS `DEPVARS' `YY'
        }
        local INDEPVARS : list retok anything
    }
    loca hasequal 0
}
- else {
- gettoken EQ INDEPVARS : REST, parse("=".)
- local hasequal 1
- }
- if ` :list sizeof DEPVARS' {
= if 1 {
- _fv_check_depvar `DEPVARS'
= _fv_check_depvar piq_timing_max
- tsunab DEPVARS : `DEPVARS'
= tsunab DEPVARS : piq_timing_max


---


> _____ begin tsuna
> b _____
- version 6
- gettoken user 0: 0, parse(" :")
- gettoken colon 0: 0, parse(" :")
- if ` ``colon''' != ":" { error 198 }
= if ` ":"' != ":" { error 198 }
- syntax [varlist(ts default=empty)] [, MIN(integer 1) MAX(i

```

```

> nteger 32000) NAME(string)]
    - c_local `user' `varlist'
    = c_local DEPVARS piq_timing_max
    - local n : word count `varlist'
    = local n : word count piq_timing_max
    - if `n'>=`min' & `n'<=`max' { exit }
    = if 1>=1 & 1<=32000 { exit }



---


> _____ end tsuna
> b _____
    - }
    - if `:list sizeof INDEPVARS' {
    = if 0 {
        ffunab INDEPVARS : `INDEPVARS'
    }
    - if inlist("noconstant", "`noconstant'", "`constant'")
    = if inlist("noconstant", "", "") {
        if "`INDEPVARS'" == "" & ! `.nocons_ignore' {
            di as err "independent variables are required when option no
> constant is specified"
            exit 102
        }
        if "`NOCONS'" != "" {
            local options `options' noconstant
        }
        local NOCONS 1
    }
    - else local NOCONS 0
    - if `"`offset`exposure'"' != "" {
    = if `""' != "" {
        .check_offset, `offset' `exposure'
        local OFFSET "`s(offset)'"
        local EXPOSURE = ("`exposure'" != "")"
        local OTHER `s(offset)'
    }
    - else local EXPOSURE 0
    - local FREEPARM = `"`freeparm'"' != ""
    = local FREEPARM = `""' != ""
    - local OPTIONS
    - local SPACE
    - foreach OPTNAME of local OPTNAMES {
    - if ```OPTNAME''' != "" {
    = if `""' != "" {
        local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'"
        local SPACE " "
    }

```

```

- }
- if ```OPTNAME'` != "" {
= if ```' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'``
    local SPACE " "
}
- }
- if ```OPTNAME'` != "" {
= if ```' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'``
    local SPACE " "
}
- }
- if ```OPTNAME'` != "" {
= if ```' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'``
    local SPACE " "
}
- }
- if ```options'` != "" {
= if ```' != "" {
    local OPTIONS ```OPTIONS``SPACE``options'``
}
- .name = ```NAME'``
= .name = `piq_timing_max``
- .depvars = ```DEPVARS'``
= .depvars = `piq_timing_max``
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ```:list retok INDEPVARS'``
= .indepvars = ```'
- .other_markvars = ```:list retok OTHER'``
= .other_markvars = ```'
- .nocons = `NOCONS'
= .nocons = 0
- .if = ```HOLDIF'``
= .if = ```'
- .in = ```HOLDIN'``
= .in = ```'
- .wgt = ```HOLDWGT'``
= .wgt = ```'
- .offset = ```OFFSET'``
= .offset = ```'
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'

```

```

= .freeparm = 0
- .options = `""`OPTIONS`````
= .options = `""````

> _____ end _eqspec.pars
> e _____
- }
- if `i' <= `.n_depvars.arrnels' {
= if 2 <= 1 {
    local ndep = `.n_depvars[`i']'
}
- .eq_list[`i'] = ._eqspec.new, numdepvars(`ndep') `.needequal'
> `.noneedvarlist' wtypes(`.wtypes') `nocons_ignore'
= .eq_list[2] = ._eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()

> _____ begin _eqspec.ne
> w _____
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL no
> NEEDVARLIST WTYPES(string) IGNORENOCONS ]
- .n_depvars = 1
- if `:list sizeof numdepvars' {
= if 1 {
- .n_depvars = `numdepvars'
= .n_depvars = 0
}
- .needequal = ("`needequal'" != "")
= .needequal = ("needequal" != "")
- .needvarlist = ("`needvarlist'" == "")
= .needvarlist = ("noneedvarlist" == "")
- .nocons_ignore = ("`ignorenocons'" != "")
= .nocons_ignore = ("" != "")
- .wtypes = "`wtypes'"
= .wtypes = ""

> _____ end _eqspec.ne
> w _____
- .eq_list[`i'].parse `eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[2].parse __key(600013850dc0):"lnalpha":, freeparm

> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(600013850dc0):"lnalpha":, freeparm

```

```
> _____ begin _on_colon_pars
> e _____
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quot
> es
- if ``par'' != "" {
= if "" != "" {
    local before `"(`before')``"
}
- if ```before'''' == ":" {
= if ``_key(600013850dc0)'''' == ":" {
    sreturn local after ```after'''''
    exit
}
- while ```COLON'''' != ":" & ```after'''' != "" {
= while ``''' != ":" & `":`lnalpha":, freeparm'''' != "" {
- gettoken COLON after : after, parse(":") bind match(par) q
> uotes
- if ``par'' != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if ```COLON'''' != ":" {
= else if `":``'' != ":" {
    local before ```before' `COLON'''''
    local COLON
}
- }
- while ```COLON'''' != ":" & ```after'''' != "" {
= while ````` != ":" & `""`lnalpha":, freeparm'''' != "" {
    gettoken COLON after : after, parse(":") bind match(par) q
> uotes
    if ``par'' != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if ```COLON'''' != ":" {
        local before ```before' `COLON'''''
        local COLON
    }
}
- if ```COLON'''' != ":" {
```

```

= if `":":' != ":" {
    di as err "' found where ':' expected"
    exit 198
}
- sreturn local before `"`before`"""
= sreturn local before `"_key(600013850dc0)`"""
- sreturn local after `"`after`"""
= sreturn local after `"""\lnalpha":, freparm"""

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013850dc0)
    - if `:list sizeof ol' {
    = if 1 {
        - local OPTLIST ```.`ol'.dumpoptions`"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/4 {
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant
        - }
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant FREEParm
        - }
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant FREEParm OFFset(passthru)
        - }
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant FREEParm OFFset(passthru) EXPosur
    > e(passthru)
        - }
        - local optlist : list uniq optlist
        - sreturn local optlist `"`optlist`"""
        = sreturn local optlist `"NOCONSTant FREEParm OFFset(passthru`"""

> u) EXPosure(passthru)"
    - class exit `"`optlist`"""
    = class exit `"NOCONSTant FREEParm OFFset(passthru) EXPosure
> (passthru)"

> _____ end _optlist.dumpoption
> s _____
    = local OPTLIST `"NOCONSTant FREEParm OFFset(passthru) EXPosur

```

```

> e(passthru)'''
      - local OPTNAMES `""'.`ol'.dumpnames''''


---


> _____ begin _optlist.dumpname
> s _____
      - version 9
      - forval i = 1/`.names.arrnels' {
      = forval i = 1/4 {
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freparm
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freparm offset
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freparm offset exposure
      - }
      - local namelist : list uniq namelist
      - sreturn local namelist `""`namelist"""
      = sreturn local namelist `""noconstant freparm offset exposu
> re"""
      - class exit `""`namelist"""
      = class exit `""noconstant freparm offset exposure"""



---


> _____ end _optlist.dumpname
> s _____
      = local OPTNAMES `""noconstant freparm offset exposure"""
      - local NOCONS constant noconstant
      - if `""`:list NOCONS & OPTNAMES"""" == "" {
      = if `""noconstant"" == "" {
          local NOCONS noCONSTant
          }
      - else local NOCONS
          }
      - local 0 `""`s(after)"""
      = local 0 `""lnalpha":, freparm"""
      - if `""`.wtypes"" != "" {
      = if `"""" != "" {
          local wgt "[`wtypes']"
          }
      - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NO
> ONS' *]
      = syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREEParm

```

```

> OFFset(passthru) EXposure(passthru)  */
    - local HOLDIF `""`if"""
    = local HOLDIF `"""
    - local HOLDIN `""`in"""
    = local HOLDIN `"""
    - if "`wgt'" != "" & "`weight'" != "" {
    = if "" != "" & "" != "" {
        local HOLDWGT `"[`weight'`exp']"""
        }
    - gettoken NAME REST : anything, parse(":")
    - if trim("`NAME'") == ":" {
    = if trim("lnalpha") == ":" {
        di as err "nothing found where equation name expected"
        exit 198
        }
    - if `:list sizeof REST' {
    = if 1 {
    - if strpos(`""NAME""',":") {
    = if strpos(`"lnalpha"',":") {
        capture _msparse `NAME'
        if c(rc) {
            di as err "{bf:`NAME'} invalid equation specification"
            exit 198
            }
        }
    - else {
    - ._confirm_eqname `NAME'
    = ._confirm_eqname lnalpha

```

```

> _____ begin _eqspec._confirm_eqnam
> e _____
    - version 9.2
    - capture confirm number `0'
    = capture confirm number lnalpha
    - if (! c(rc)) exit
    - local hasdot = strpos(`""0""',".")
    = local hasdot = strpos(`"lnalpha"',".")
    - if `hasdot' {
    = if 0 {
        syntax varname(ts)
        exit
        }
    - capture syntax name(id="equation name")
    - if (! c(rc)) exit

```

```
> _____ end _eqspec._confirm_eqnam
```

```

> e -----
    - }
    - local NAME : list retok NAME
    - gettoken COLON anything : REST, parse(":")
    - }
    - else {
        local NAME
    }
    - gettoken DEPVARS REST : anything, parse("=".)
    - if "`DEPVARS'" == "=" {
    = if "" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if `:length local DEPVARS' == 0 & `.n_depvars' ) {
    = if (0 == 0 & 0) {
        di as err "nothing found where depvar expected"
        exit 198
    }
    - if `"`REST`"' == "" {
    = if `""` == "" {
    - if 0` .needequal' {
    = if 01 {
    - if ` .needvarlist' | `:length local DEPVARS' != 0 & ` .n_depvs'
> ars') {
    = if 0 | (0 != 0 & 0) {
        di as err "equal sign required to separate depvars from inde
> pvars"
    exit 198
}
- }
- local DEPVARS
- local n_deps : list sizeof anything
- if `n_deps' != 0 | ` .needvarlist' {
= if 0 != 0 | 0 {
    if `n_deps' < ` .n_depvars' {
        error 102
    }
    forval j = 1/` .n_depvars' {
        gettoken YY anything : anything
        local DEPVARS `DEPVARS' `YY'
    }
    local INDEPVARS : list retok anything
}
- loca hasequal 0
- }

```

```

- else {
    gettoken EQ INDEPVARS : REST, parse("=") bind
    local hasequal 1
}
- if `:list sizeof DEPVARs' {
= if 0 {
    _fv_check_depvar `DEPVARs'
    tsunab DEPVARs : `DEPVARs'
}
- if `:list sizeof INDEPVARS' {
= if 0 {
    ffunab INDEPVARS : `INDEPVARS'
}
- if inlist("noconstant", "`noconstant'", "`constant') {
= if inlist("noconstant", "", "") {
    if "`INDEPVARS'" == "" & ! `nocons_ignore' {
        di as err "independent variables are required when option no
> constant is specified"
        exit 102
    }
    if "`NOCONS'" != "" {
        local options `options' noconstant
    }
    local NOCONS 1
}
- else local NOCONS 0
- if `"`offset`exposure'"' != "" {
= if `""' != "" {
    .check_offset, `offset' `exposure'
    local OFFSET "`s(offset)"
    local EXPOSURE = ("`exposure'" != "")"
    local OTHER `s(offset)"
}
- else local EXPOSURE 0
- local FREEPARM = `"`freeparm'"' != ""
= local FREEPARM = `freeparm'"' != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if ```OPTNAME'''' != "" {
= if `""' != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ```OPTNAME'''' != "" {

```

```

= if `"$freeparm" != "" {
- local OPTIONS ``OPTIONS``SPACE``OPTNAME"""
= local OPTIONS `"$freeparm"
- local SPACE " "
- }
- }
- if ````OPTNAME''' != "" {
= if `"" != "" {
  local OPTIONS ``OPTIONS``SPACE``OPTNAME"""
  local SPACE " "
}
- }
- if ````OPTNAME''' != "" {
= if `"" != "" {
  local OPTIONS ``OPTIONS``SPACE``OPTNAME"""
  local SPACE " "
}
- }
- if `"$options" != "" {
= if `"" != "" {
  local OPTIONS ``OPTIONS``SPACE``options"""
}
- .name = `"$NAME"
= .name = `lnalpha"
- .depvars = ``DEPVARS"""
= .depvars = `"""
- .hasequal = `hasequal'
= .hasequal = 0
- .indepvars = `:list retok INDEPVARS"""
= .indepvars = `"""
- .other_markvars = `:list retok OTHER"""
= .other_markvars = `"""
- .nocons = `NOCONS'
= .nocons = 0
- .if = `"$HOLDIF"""
= .if = `"""
- .in = `"$HOLDIN"""
= .in = `"""
- .wgt = `"$HOLDWGT"""
= .wgt = `"""
- .offset = `"$OFFSET"""
= .offset = `"""
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 1

```

```

- .options = `"`OPTIONS`"`
= .options = `"`freparm`"`

> _____ end _eqspec.pars
> e _____
- }
- local MARKOPTLIST `"`mark_opts.dumpoptions`"`

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `"`optlist`"`
= sreturn local optlist `""`"
- class exit `"`optlist`"`
= class exit `""`"

> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""`"
- local MARKOPTNAMES `"`mark_opts.dumpnames`"`

> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`.names.arrnels' {
= forval i = 1/0 {
    local namelist `namelist' `.`names[`i']'
}
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist`"`
= sreturn local namelist `""`"
- class exit `"`namelist`"`
= class exit `""`"

> _____ end _optlist.dumpname
> s _____
= local MARKOPTNAMES `""`"
- local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "(str
> ing asis)", all
- local SMARKOPTLIST `"`smark_opts.dumpoptions`"`

```

```

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

_____ end _optlist.dumpoption
> s _____
    = local SMARKOPTLIST `"""
    - local SMARKOPTNAMES `""`smark_opts.dumpnames"""

_____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""

_____ end _optlist.dumpname
> s _____
    = local SMARKOPTNAMES `"""
    - local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)" "(s
> tring asis)", all
    - local RMCOLLOPTLIST `""`rmcoll_opts.dumpoptions"""

_____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist

```

```

    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMCOLLOPTNAMES `""`.rmcoll_opts.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""



---


> _____ end _optlist.dumpname
> s _____
= local RMCOLLOPTNAMES `"""
- local OPTLIST2 : subinstr local RMCOLLOPTLIST "(passthru)" "(s
> tring asis)", all
    - local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""



---


> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local RMDCOLLOPTLIST `"""

```

```

- local RMDCOLLOPTNAMES `"\`rmdcoll_opts.dumpnames""'


---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/\`names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' \`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `"\`namelist""'
    = sreturn local namelist `""'
    - class exit `"\`namelist""'
    = class exit `""'



---


> _____ end _optlist.dumpname
> s _____
    = local RMDCOLLOPTNAMES `""'
    - local OPTLIST3 : subinstr local RMDCOLLOPTLIST "(passthru)" "(
> string asis)", all
        - local 0 `", `GL_op""'
        = local 0 `", ""
        - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLline
> ar noCONSTANT * ]
        = syntax [,      COLlinear noCONSTANT * ]
        - local GL_op `"\`options""'
        = local GL_op `""'
        - if `"\`collinear""' != "" {
        = if `""' != "" {
            local GL_op `"\`GL_op' `collinear""'
            .collinear = "`collinear"
        }
        - if `"\`constant""' != "" {
        = if `""' != "" {
            local GL_op `"\`GL_op' `constant""'
            .nocons = "`constant"
        }
        - local I 0
        - foreach OPT of local MARKOPTNAMES {
            if `:list sizeof `OPT' {
                .mark_list['++I'] = .eqspec.new, numdep(0) wtypes(`.wtypes')
                .mark_list['I'].parse "" : ``OPT''
                .mark_name.Arppush ``OPT''
            }
        }
        - local I 0

```

```

- foreach OPT of local SMARKOPTNAMES {
  if `:list sizeof `OPT'' {
    .smark_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtypes')
    .smark_list[`I'].parse "" : ``OPT''
    .smark_name.Arrpush ``OPT''
  }
}
- local I 0
- foreach OPT of local RMCOLLOPTNAMES {
  if `:list sizeof `OPT'' {
    .rmcoll_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtypes'
> )
    .rmcoll_list[`I'].parse "" : ``OPT''
    .rmcoll_name.Arrpush ``OPT''
  }
}
- local I 0
- foreach OPT of local RMDCOLLOPTNAMES {
  if `:list sizeof `OPT'' {
    .rmdcoll_list[`++I'] = ._eqspec.new, wtypes(`.wtypes')
    .rmdcoll_list[`I'].parse "" : ``OPT''
    .rmdcoll_name.Arrpush ``OPT''
  }
}
- .n_eq = `EQ_n'
= .n_eq = 2
- .gl_if = ```GL_if'''
= .gl_if = `'''
- .gl_in = ```GL_in'''
= .gl_in = `'''
- .gl_wgt = ```GL_wt'''
= .gl_wgt = `'''
- .gl_options = ```:list retok GL_op'''
= .gl_options = `''''

```

```
> _____ end _eqlist.pars
> e _____
```

```

- if ``subpop'' != "" & ``missing'' == "" {
= if "" != "" & "missing" == "" {
  if `interactive' {
    SetGlobalVar ML_samp : _MLtu
  }
  else {
    global ML_samp : tempvar
    if ``moptobj'' != "" {
      global ML_samp `moptobj'$ML_samp
    }
  }
}
```

```

    }
}
tempvar markuse
_svys_setup $ML_sample $ML_samp, svy subpop(`subpop')
quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000005
- if "`collinear'" == "" {
= if "collinear" == "" {
    .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if "`missing'" == "" {
= else if "missing" == "" {
    .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000005" != "__000005" {
    `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
    drop `markuse'
}
- local eq_n = `.`eqlist'.eq count'



---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
= if "count" == "count" {
    sreturn local value `".n_eq"'
    sreturn local value `"2"'
    class exit `"`s(value)'"'
= class exit `"2"'



---


> _____ end _eqlist.e
> q _____
    = local eq_n = 2
    - global ML_n : copy local eq_n
    - global ML_dim = `.`eqlist'.dim'



---


> _____ begin _eqlist.di
> m _____
    - version 9.2
    - syntax
    - local neq = `.eq count'

```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "count" == "count" {
    - sreturn local value ```.n_eq'''
    = sreturn local value ``2'''
    - class exit ```s(value)'''
    = class exit ``2'''

> _____ end _eqlist.e
> q _____
    = local neq = 2
    - forval i = 1/`neq' {
    = forval i = 1/2 {
    - local xvarsi ```.eq indepvars `i''''

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "indepvars" == "count" {
        sreturn local value ```.n_eq'''
        class exit ```s(value)'''
    }
    - else if 0 < `idx' & `idx' <= `.n_eq' {
    = else if 0 < 1 & 1 <= 2 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item indepvars

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, indepvars

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {

```

```

        = if 0 {
            local other other_markvars
        }
        - local item `name' `deptr' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
        = local item indepvars
        - if `:list sizeof item' != 1 {
        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item indepvars


---


> _____ end _eqspec._check_eq_item_name
> e _____
    - local value `""` `item`"""
    = local value `"""
    - sreturn local value `""` `value`"""
    = sreturn local value `"""
    - class exit `""` `value`"""
    = class exit `"""


---


> _____ end _eqspec.ite
> m _____
    - class exit `""` `s(value)`"""
    = class exit `"""


---


> _____ end _eqlist.e
> q _____
    = local xvarsi `"""
    - local noconsi `""` .eq nocons `i`"""


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if `item' == "count" {
    = if "nocons" == "count" {
        sreturn local value `""` .n_eq`"""
        class exit `""` `s(value)`"""
    }
    - else if 0 < `idx' & `idx' <= `n_eq' {
    = else if 0 < 1 & 1 <= 2 {
        - .eq_list[`idx'].item `item'
    = .eq_list[1].item nocons

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, nocons
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPposure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
    = local item      nocons
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item nocons
_____
> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`item"""
    = local value `""0"""
    - sreturn local value `""`value"""
    = sreturn local value `""0"""
    - class exit `""`value"""
    = class exit `""0"""
_____
> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `""0"""
_____
> _____ end _eqlist.e
> q _____
    = local noconsi `""0"""
    - local dim = `dim' + `:list sizeof xvars'
    = local dim =  + 0

```

```

- if "`nocons'" == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- local xvarsi `".eq indepvars `i`"


---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "indepvars" == "count" {
sreturn local value `".n_eq`"
class exit `s(value)`"
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item indepvars


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
local other other_markvars
}
- local item `name' `deptrs' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
error 198
}
- c_local `c_item' `item'

```

```

= c_local item indepvars


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""`item"""
= local value `"""
- sreturn local value `""`value"""
= sreturn local value `"""
- class exit `""`value"""
= class exit `"""



---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `"""



---


> _____ end _eqlist.e
> q _____
= local xvarsi `"""
- local noconsi `""`.eq nocons `i"""



---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "nocons" == "count" {
    sreturn local value `""`.n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `.`.n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item nocons



---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons



---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva

```

```

> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTIONS ]
      - if c(rc) error 198
      - if `:list sizeof other' {
      = if 0 {
          local other other_markvars
          }
          - local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
      = local item      nocons
      - if `:list sizeof item' != 1 {
      = if 1 != 1 {
          error 198
          }
          - c_local `c_item' `item'
      = c_local item nocons
      _____ end _eqspec._check_eq_item_name

> e _____ end _eqspec._check_eq_item_name
> m _____ end _eqspec.item
> q _____ end _eqlist.e
> q _____ end _eqlist.di

```

```

> m -----
= global ML_dim = 2
- forval i = 1/`eq_n' {
= forval i = 1/2 {
- local depvars `.``eqlist'.eq depvars `i''
```

```

> ----- begin _eqlist.e
> q -----
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "depvars" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `.`n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item depvars
```

```

> ----- begin _eqspec.ite
> m -----
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, depvars
```

```

> ----- begin _eqspec._check_eq_item_name
> e -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item depvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item depvars
```

```

> _____ end _eqspec._check_eq_item_name
> e _____
>   - local value `'''.`item''''
>   = local value `piq_timing_max'''
>   - sreturn local value `''`value''''
>   = sreturn local value `piq_timing_max''''
>   - class exit `''`value''''
>   = class exit `piq_timing_max''''
> _____ end _eqspec.item
> m _____
>   - class exit `''`s(value)''''
>   = class exit `piq_timing_max''''
> _____ end _eqlist.e
> q _____
>   = local depvars piq_timing_max
>   - local eq `.`.eqlist'.eq name `i''''
> _____ begin _eqlist.e
> q _____
>   - version 9.2
>   - args item idx
>   - if ``item'' == "count" {
>   = if "name" == "count" {
>       sreturn local value `'''.n_eq''''
>       class exit `''`s(value)''''
>   }
>   - else if 0 < `idx' & `idx' <= `n_eq' {
>   = else if 0 < 1 & 1 <= 2 {
>       .eq_list[`idx'].item `item'
>   = .eq_list[1].item name
> _____ begin _eqspec.item
> m _____
>   - version 9.2
>   - args item
>   - ._check_eq_item_name item, `item'
>   = ._check_eq_item_name item, name
> _____ begin _eqspec._check_eq_item_name
> e _____
>   - version 9.2
>   - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFSET EXPosure FREEParm OPTions ]

```

```

- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item name
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item name

> _____ end _eqspec._check_eq_item_nam
> e _____
- local value ```.item'''
= local value `piq_timing_max'
- sreturn local value ```value'''
= sreturn local value `piq_timing_max'
- class exit ```value'''
= class exit `piq_timing_max'

> _____ end _eqspec.ite
> m _____
- class exit ```s(value)'''
= class exit `piq_timing_max'

> _____ end _eqlist.e
> q _____
= local eq piq_timing_max
- if `:length local eq' {
= if !14 {
    local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
    di as err "equation ``eq'' multiply defined"
    exit 110
}
- local eqnames `eqnames' `eq'
= local eqnames piq_timing_max
- fexpand `.` `eqlist'.eq indepvars `i' if $ML_samp

> _____ begin _eqlist.e

```

```

> q -----
  - version 9.2
  - args item idx
  - if "`item'" == "count" {
= if "indepvars" == "count" {
    sreturn local value `".n_eq`"
    class exit `"$s(value)`"
}
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars
-----
```

```

> ----- begin _eqspec.ite
> m -----
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars
-----
```

```

> ----- begin _eqspec._check_eq_item_nam
> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
  - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
  - if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
  - c_local `c_item' `item'
= c_local item indepvars
-----
```

```

> ----- end _eqspec._check_eq_item_nam
> e -----
  - local value `"$s(item)`"
= local value `""`
  - sreturn local value `"$s(value)`"
= sreturn local value `""`
```

```

- class exit `""`value"""
= class exit `"""

> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `"""

> _____ end _eqlist.e
> q _____
= fvexpand if __000005
- if "`r(tsops)" == "true" {
= if "" == "true" {
    global ML_preserve no
}
- local eq_rhs`i' `""`r(varlist)"""
= local eq_rhs1 `"""
- local eq_nocons`i' `.`eqlist'.eq nocons `i'''

> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "nocons" == "count" {
    sreturn local value `""`.n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `.`n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item nocons

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198

```

```

- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item      nocons
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
- local value `""`.'item'"""
= local value `""0"""
- sreturn local value `""`value"""
= sreturn local value `""0"""
- class exit `""`value"""
= class exit `""0"""



---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `""0"""



---


> _____ end _eqlist.e
> q _____
= local eq_nocons1 0
- local eq_offset`i' `.`eqlist'.eq offset `i'



---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "offset" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item offset

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, offset


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item          offset
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item offset


---


> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`.'item'"""
    = local value `"""
    - sreturn local value `""`value"""
    = sreturn local value `"""
    - class exit `""`value"""
    = class exit `"""


---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `"""


---


> _____ end _eqlist.e
> q _____
    = local eq_offset1
    - local eq_exposure`i' `.`eqlist'.eq exposure `i''
```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "exposure" == "count" {
        sreturn local value `".n_eq"
        class exit `s(value)'
    }
    - else if 0 < `idx' & `idx' <= `.n_eq' {
    = else if 0 < 1 & 1 <= 2 {
        - .eq_list[`idx'].item `item'
        = .eq_list[1].item exposure

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, exposure

```

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item           exposure
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item exposure

```

```

> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `".`item'```
    = local value `0```

```

```

    - sreturn local value `""`value"""
    = sreturn local value `""0"""
    - class exit `""`value"""
    = class exit `""0"""

> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `""0"""

> _____ end _eqlist.e
> q _____
    = local eq_exposure1 0
    - local eq_freeparm`i' `.`eqlist'.eq freeparm `i'''

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "freeparm" == "count" {
        sreturn local value `""`n_eq"""
        class exit `""`s(value)"""
    }
    - else if 0 < `idx' & `idx' <= `.`n_eq' {
    = else if 0 < 1 & 1 <= 2 {
        - .eq_list[`idx'].item `item'
        = .eq_list[1].item freeparm

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, freeparm

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }

```

```

        - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
        = local item           freeparm
        - if `:list sizeof item' != 1 {
        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item freeparm


---


> _____ end _eqspec._check_eq_item_name
> e _____
        - local value `""`item"""
        = local value `""0"""
        - sreturn local value `""`value"""
        = sreturn local value `""0"""
        - class exit `""`value"""
        = class exit `""0"""



---


> _____ end _eqspec.ite
> m _____
        - class exit `""`s(value)"""
        = class exit `""0"""



---


> _____ end _eqlist.e
> q _____
        = local eq_freeparm1 0
        - local lhs `lhs' `depvars'
        = local lhs  piq_timing_max
        - local eq_names `eq_names' `eq'
        = local eq_names  piq_timing_max
        - local nxvars :list sizeof eq_rhs`i'
        = local nxvars :list sizeof eq_rhs1
        - local TMP : copy local eq_rhs`i'
        = local TMP : copy local eq_rhs1
        - forval j = 1/`nxvars' {
        = forval j = 1/0 {
            gettoken xvar TMP : TMP
            local colna `""`colna' `eq':`xvar"""
            }
        - if `eq_freeparm`i' {
        = if 0 {
            if `nxvars' {
                di as err "{it:xvars} not allowed with option {bf:freeparm}"
                exit 198
            }

```

```

if strpos(```eq''', ":") {
local colna ``colna' `/`eq'''
}
else {
local colna ``colna' /:`eq'''
}
}
- else if !`eq_nocons`i' {
= else if !0 {
- local colna ``colna' `eq':_cons''
= local colna `` piq_timing_max:_cons''
- }
- if ``moptobj'' != "" {
= if "" != "" {
    if ``eq_offset`i''' != "" {
        if usubstr(``eq_offset`i''', 1, 2) == "__" {
            capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
            local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
        }
    }
}
}
- }
- local depvars `.``eqlist'.eq depvars `i''

```

```
> _____ begin _eqlist.e
> q _____
```

```

- version 9.2
- args item idx
- if ``item'' == "count" {
= if "depvars" == "count" {
    sreturn local value ```.n_eq'''
    class exit ```s(value)'''
}
- else if 0 < `idx' & `idx' <= `.`.n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item depvars

```

```
> _____ begin _eqspec.ite
> m _____
```

```

- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, depvars

```

```
> _____ begin _eqspec._check_eq_item_nam
```

```

> e
      - version 9.2
      - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars]
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
      - if c(rc) error 198
      - if `:list sizeof other' {
= if 0 {
      local other other_markvars
}
      - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther` `nocons` `offset` `exposure` `freeparm` `options'
      = local item depvars
      - if `:list sizeof item' != 1 {
= if 1 != 1 {
      error 198
}
      - c_local `c_item' `item'
= c_local item depvars


---


> _____ end _eqspec._check_eq_item_name
> e
      - local value `""` `item`"""
= local value `"""
      - sreturn local value `""` `value`"""
= sreturn local value `"""
      - class exit `""` `value`"""
= class exit `"""


---


> _____ end _eqspec.item
> m
      - class exit `""` `s(value)`"""
= class exit `"""


---


> _____ end _eqlist.e
> q
      = local depvars
      - local eq `.` `eqlist`.eq name `i``


---


> _____ begin _eqlist.e
> q
      - version 9.2
      - args item idx
      - if `item` == "count" {
= if `name` == "count" {
      sreturn local value `""` `n_eq`"""
      class exit `""` `s(value)`"""

```

```

        }
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item name


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, name


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther` `nocons' `offset' `exposure' `freeparm' `options'
= local item name
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item name


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""`item"""
= local value `""lnalpha"""
- sreturn local value `""`value"""
= sreturn local value `""lnalpha"""
- class exit `""`value"""
= class exit `""lnalpha"""



---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `""lnalpha"""

```

```

> _____ end _eqlist.e
> q _____
= local eq lnalpha
- if `:length local eq' {
= if !7 {
    local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
    di as err "equation ``eq'' multiply defined"
    exit 110
}
- local eqnames `eqnames' `eq'
= local eqnames piq_timing_max lnalpha
- fvexpand `.`.eqlist'.eq indepvars `i'' if $ML_samp

```

```

> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "indepvars" == "count" {
    sreturn local value `".n_eq""'
    class exit `"$s(value)""'
}
- else if 0 < `idx' & `idx' <= `".n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item indepvars

```

```

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars

```

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {

```

```

        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item    indepvars
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item indepvars

```

```

> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`item"""
    = local value `"""
    - sreturn local value `""`value"""
    = sreturn local value `"""
    - class exit `""`value"""
    = class exit `"""

```

```

> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `"""

```

```

> _____ end _eqlist.e
> q _____
    = fexpand  if __000005
    - if "`r(tsops)' == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)`"""
    = local eq_rhs2 `"""
    - local eq_nocons`i' `.`eqlist'.eq nocons `i''
```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if `item'" == "count" {
    = if "nocons" == "count" {
        sreturn local value `""`.n_eq"""
        class exit `""`s(value)`"""
    }
```

```

- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item nocons


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item      nocons
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""`item"""
= local value `""0"""
- sreturn local value `""`value"""
= sreturn local value `""0"""
- class exit `""`value"""
= class exit `""0"""


---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)`"""
= class exit `""0"""


---



```

```

> _____ end _eqlist.e
> q _____
= local eq_nocons2 0
- local eq_offset`i' `.`eqlist'.eq offset `i'
_____
> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "offset" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item offset
_____
> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, offset
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freparm' `options'
= local item          offset
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item offset
_____
```



```

- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item           exposure
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item exposure


---


> _____ end _eqspec._check_eq_item_name
> e _____
- local value `""`.'item'"""
= local value `""0"""
- sreturn local value `""`value"""
= sreturn local value `""0"""
- class exit `""`value"""
= class exit `""0"""



---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `""0"""



---


> _____ end _eqlist.e
> q _____
= local eq_exposure2 0
- local eq_freeparm`i' `.`eqlist'.eq freeparm `i'''



---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "freeparm" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item freeparm

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, freparm


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPposure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freparm' `options'
    = local item           freparm
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item freparm


---


> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`.'item'"""
    = local value `""1"""
    - sreturn local value `""`value'"""
    = sreturn local value `""1"""
    - class exit `""`value'"""
    = class exit `""1"""


---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)'"""
    = class exit `""1"""


---


> _____ end _eqlist.e
> q _____
    = local eq_freparm2 1
    - local lhs `lhs' `depvars'

```

```

= local lhs piq_timing_max
- local eq_names `eq_names' `eq'
= local eq_names piq_timing_max lnalpha
- local nxvars :list sizeof eq_rhs`i'
= local nxvars :list sizeof eq_rhs2
- local TMP : copy local eq_rhs`i'
= local TMP : copy local eq_rhs2
- forval j = 1/`nxvars' {
= forval j = 1/0 {
    gettoken xvar TMP : TMP
    local colna `""`colna' `eq':`xvar''''
    }
- if `eq_freeparm`i'' {
= if 1 {
- if `nxvars' {
= if 0 {
    di as err "{it:xvars} not allowed with option {bf:freeparm}"
    exit 198
    }
- if strpos(`""`eq'''',":") {
= if strpos(`"lnalpha"',":") {
    local colna `""`colna' /`eq''''
    }
- else {
- local colna `""`colna' /:`eq''''
= local colna `"" piq_timing_max:_cons /:lnalpha''
- }
- }
- else if !`eq_nocons`i'' {
= else if !0 {
    local colna `""`colna' `eq':_cons''
    }
- if "`moptobj'" != "" {
= if "" != "" {
        if "`eq_offset`i'''" != "" {
            if usubstr("`eq_offset`i''",1,2)=="__" {
                capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
                local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
            }
        }
    }
- }
- if "`moptobj'" != "" {
= if "" != "" {
        foreach y of local lhs {
            if usubstr("`y'",1,2)=="__" {

```

```

capture clonevar `moptobj'`y' = `y'
local tmp `tmp' `moptobj'`y'
local dropmetoo `dropmetoo' `moptobj'`y'
}
else {
local tmp `tmp' `y'
}
}
local lhs `tmp'
}
- if `waldtest' > 0 & `:length local lf0' {
= if 0 > 0 & 0 {
    opts_exclusive "waldtest() lf0()"
}
- if `:length local continue' {
= if 0 {
    if !`:length local init' {
        tempname init
        local ub0 `init'
    }
    else tempname ub0
    mat `ub0' = e(b)
    tempname v0 iv0
    mat `v0' = e(V)
    mat `iv0' = syminv(`v0')
    global ML_rank0 = colsof(`v0') - diag0cnt(`iv0')
    if !`:length local lf0' & !missing(e(ll)) {
        local lf0 `=colsof(`ub0')' `e(ll)'
    }
    local ub0
}
- if `:length local init' {
= if 14 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000007 = J(1,2,0)
- matrix colna `b0' = `colna'
= matrix colna __000007 = piq_timing_max:_cons /:lnalpha
- `vv' _mkvec `b0', from(`init') update first error("initial vecto
> r")
= version 18: _mkvec __000007, from(__000003, copy) update first e
> rrer("initial vector")


---


> _____ begin _mkve
> c _____

```

```

- local vv : display "version " string(_caller()) ":""
- version 6
- gettoken matout 0 : 0, parse(", ")
- if "`matout'"=="" | "`matout'"=="," {
= if "__000007"=="" | "__000007"==",," {
    error 198
}
- syntax [, FROM(str) UPdate COLnames(str) ERRor(str) FIRST ]
- if "`update"!=""
= if "update"!=""
- if "`colname"!=""
= if ""!=""
    di in red "update and colnames() cannot both be " "specified"
    exit 198
}
- capture local colname : colfullnames `matout'
= capture local colname : colfullnames __000007
- if _rc {
    di in red "matrix `matout' not found"
    exit 111
}
- if rowsof(matrix(`matout')) != 1 {
= if rowsof(matrix(__000007)) != 1 {
    di in red "`matout' matrix to be updated must be " "a row vect
> or"
    exit 503
}
- local matin `matout'
= local matin __000007
-
- if `""`error"'"!=""
= if `""initial vector"'"!=""
- local error `""`error'; ""
= local error `""initial vector: ""
-
- tempname mat
- if `""`from"'"!=""
= if `""__000003, copy"'"!=""
- From `from'
= From __000003, copy


---


> _____ begin _mkvec.Fro
> m _____
- gettoken from 0 : 0, parse(",") bind
- sret clear
- sret local from `from'

```

```

= sret local from __000003
- if ```0'``!=``"
= if `", copy``!=``"
- syntax [, COPY SKIP ]
- }
- sret local copy `copy'
= sret local copy copy
- sret local skip `skip'
= sret local skip


---


> _____ end _mkvec.Fro
> m _____
- local copy `s(copy)'
= local copy copy
- local skip `s(skip)'
= local skip
- if ``copy``!=``"
= if "copy``!=``"
- CopyMat `mat` ``error`` `s(from)'
= CopyMat __000008 ``initial vector: '' __000003


---


> _____ begin _mkvec.CopyMa
> t _____
- args matall error
- tempname matadd
- local i 3
- while ```i'``!=``"
= while __000003``!=``"
- capture di matrix(``i''[1,1])
= capture di matrix(__000003[1,1])
- if _rc == 0 {
- ChkMat `matadd` ``i'' ``error``
= ChkMat __000009 __000003 ``initial vector: ''


---


> _____ begin _mkvec.ChkMa
> t _____
- args matout matin error
- capture di matrix(``matin''[1,1])
= capture di matrix(__000003[1,1])
- if _rc {
capture confirm number `matin'
if _rc {
di in red ```error'matrix `matin' not found''
exit 111
}
di in red ```error'list of numbers requires copy option''

```

```

        exit 198
    }
- if matrix(rowsof(`matin')!=1 & colsof(`matin')!=1) {
= if matrix(rowsof(__000003)!=1 & colsof(__000003)!=1) {
    di in red ``matin' " matrix(rowsof(`matin')) " x " matrix(
> colsof(`matin')) " is not a vector"
        exit 503
    }
- if matrix(rowsof(`matin')) == 1 {
= if matrix(rowsof(__000003)) == 1 {
- mat `matout' = `matin'
= mat __000009 = __000003
- }
- else mat `matout' = `matin''
= else mat __000009 = __000003

```

```

> _____ end _mkvec.ChkMa
> t _____
    - }
    - else {
        capture confirm number ``i''
        if _rc {
            di in red `""`error'copy option requires "" "either a matrix
> or a list of numbers"
                exit 198
            }
            mat `matadd' = J(1,1,``i'')
        }
        - mat `matall' = nullmat(`matall') , `matadd'
= mat __000008 = nullmat(__000008) , __000009
        - local i = `i' + 1
= local i = 3 + 1
        - }
        - while ``i''!= "" {
= while ""!= "" {
            capture di matrix(``i''[1,1])
            if _rc == 0 {
                ChkMat `matadd' ``i'' `""`error'"
            }
            else {
                capture confirm number ``i''
                if _rc {
                    di in red `""`error'copy option requires "" "either a matrix
> or a list of numbers"
                        exit 198
                }

```

```

    mat `matadd' = J(1,1,``i''
}
mat `matall' = nullmat(`matall') , `matadd'
local i = `i' + 1
}



---


> _____ end _mkvec.CopyMa
> t _____
- if ``colname''!=`` {
= if `piq_timing_max:_cons /lnalpha''!=`` {
- local dim : list sizeof colname
- if `dim' != colsof(matrix(`mat')) {
= if 2 != colsof(matrix(_000008)) {
    di in red ``error'matrix must '' ``be dimension '' `dim'
    exit 503
}
- `vv' mat colnames `mat' = `colname'
= version 18: mat colnames _000008 = piq_timing_max:_cons /lnal
> pha
- }
- }
- else {
`vv' BuildMat `mat' ``error'' ``skip'' `s(from)
if ``colname''!=`` {
`vv' ChkNames `mat' ``matin'' ``colname'' ``error'' ``skip
> ``first''
    local fill `s(k_fill)'
}
}
}
- }
- else {
    local fill 0
    if ``update''!=`` {
        mat `mat' = `matin'
    }
    else if ``colname''!=`` {
        local dim : list sizeof colname
        mat `mat' = J(1,`dim',0)
        `vv' mat colnames `mat' = `colname'
    }
    else {
        di in red "from() must be specified"
        exit 198
    }
}
- sret clear

```

```

    - sret local copy `copy'
    = sret local copy copy
    - sret local skip `skip'
    = sret local skip
    - sret local k = colsof(matrix(`mat'))
    = sret local k = colsof(matrix(_000008))
    - if "`fill'"!=""
    = if ""!= ""
        sret local k_fill `fill'
    }
    - else sret local k_fill = colsof(matrix(`mat'))
    = else sret local k_fill = colsof(matrix(_000008))
    - matrix rename `mat' `matout', replace
    = matrix rename _000008 _000007, replace


---


> _____ end _mkve
> c _____
    -
    - tempname bomit
    - matrix `bomit' = J(1,:list sizeof colna',0)
    = matrix _000008 = J(1,2,0)
    - matrix colna `bomit' = `colna'
    = matrix colna _000008 = piq_timing_max:_cons /:lnalpha
    - _ms OMIT_info `bomit'
    = _ms OMIT_info _000008
    - if r(k OMIT) | `:length local constraints' {
    = if r(k OMIT) | 0 {
        nobreak {
        capture noisily break {
        _b_post0 `colna'
        local clist : subinstr local constraints ", " " ", all
        `vv' makecns `clist', `cnsnotes'
        local constraints `""`r(clist)"""
        local k_autoCns = e(k_autoCns)
        tempname C
        capture matrix `C' = e(Cns)
        local rcc = c(rc)
        }
        local rc = c(rc)
        ereturn clear
        }
        if (`rc') exit `rc'
        if (`rcc') {
        local C
        local k_autoCns
        }

```

```

        }
- if `:length local constraints' {
= if 0 {
    local lf0
}
- local vce `vce' `robust' `cluster'
= local vce  robust
- if `:length local vce' {
= if 6 {
    - _vce_parse, argoptlist(CLuster) optlist(0IM OPG Robust) old : `w
> t', `vce'
        = _vce_parse, argoptlist(CLuster) optlist(0IM OPG Robust) old : ,
> robust


---


> _____ begin _vce_pars
> e _____
    - version 10
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(CLuster) optlist(0IM OPG Robust)
> old : , robust


---


> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before """
    - sreturn local after """
    - gettoken before after : 0, parse(":") bind match(par) quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"`
    }
    - if `"`before'"' == ":" {
    = if `", argoptlist(CLuster) optlist(0IM OPG Robust) old "' ==
> ":" {
        sreturn local after `"`after`"
        exit
    }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `""' != ":" & `": , robust"' != "" {
        - gettoken COLON after : after, parse(":") bind match(par) quo
> tes
    - if "`par'" != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
    }

```

```

    - else if `"\`COLON`"" != ":" {
    = else if `":`" != ":" {
        local before `"\`before`" `"\`COLON`"
        local COLON
    }
}
- }
- while `"\`COLON`"" != ":" & `"\`after`"" != "" {
= while `":`" != ":" & `", robust`" != "" {
    gettoken COLON after : after, parse(":") bind match(par) quo
> tes
    if "`par`" != "" {
        local before `"\`before`" (`"\`COLON`")
        local COLON
    }
    else if `"\`COLON`"" != ":" {
        local before `"\`before`" `"\`COLON`"
        local COLON
    }
}
- if `"\`COLON`"" != ":" {
= if `":`" != ":" {
    di as err `"\` found where `":` expected"
    exit 198
}
- sreturn local before `"\`before`"
= sreturn local before `", argoptlist(CLuster) optlist(OIM OPG
> Robust) old `"
    - sreturn local after `"\`after`"
    = sreturn local after `", robust`"

```

```

> _____ end _on_colon_pars
> e _____
    - local 0 `"\`s(before)`"
    = local 0 `", argoptlist(CLuster) optlist(OIM OPG Robust) old `"
    - local user `"\`s(after)`"
    = local user `", robust`"
    - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist
> (namelist) PWhallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
    - local touse `varlist'
    = local touse
    - tempname o a
    - .`o' = ._optlist.new
    = .__000009 = ._optlist.new
    - local optlist : list uniq optlist
    - foreach name of local optlist {
    - .`o'.addopt `name'

```

```

= .__000009.addopt OIM


---


> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec'')
    = local mname = lower("OIM")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "OIM"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "oim"


---


> _____ end _optlist.addop
> t _____
    - }
    - .`o'.addopt `name'
= .__000009.addopt OPG


---


> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec'')
    = local mname = lower("OPG")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "OPG"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "opg"


---


> _____ end _optlist.addop
> t _____
    - }
    - .`o'.addopt `name'
= .__000009.addopt Robust


---


> _____ begin _optlist.addop
> t _____

```

```

- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec`)
= local mname = lower("Robust")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec`"
= .options.Arrpush "Robust"
- .names.Arrpush "`mname`"
= .names.Arrpush "robust"


---


> _____ end _optlist.addop
> t _____
- }
- `a' = ._optlist.new
= __0000A = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- `a'.adopt `name'
= __0000A.adopt CLuster


---


> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec`)
= local mname = lower("CLuster")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec`"
= .options.Arrpush "CLuster"
- .names.Arrpush "`mname`"
= .names.Arrpush "cluster"


---


> _____ end _optlist.addop
> t _____
- }
- local OPTNAMES ``.`o'.dumpnames```


---


> _____ begin _optlist.dumpname
> s _____
- version 9

```

```

- forval i = 1/`names.arrnels' {
= forval i = 1/3 {
- local namelist `namelist' `names[`i']'
= local namelist oim
- }
- local namelist `namelist' `names[`i']'
= local namelist oim opg
- }
- local namelist `namelist' `names[`i']'
= local namelist oim opg robust
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist```"
= sreturn local namelist `"`oim opg robust```"
- class exit `"`namelist```"
= class exit `"`oim opg robust```"

```

```

> _____ end _optlist.dumpname
> s _____
= local OPTNAMES `"`oim opg robust```"
- local ARGOPTNAMES `"``a'.dumpnames```"

```

```

> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`names.arrnels' {
= forval i = 1/1 {
- local namelist `namelist' `names[`i']'
= local namelist cluster
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist```"
= sreturn local namelist `"`cluster```"
- class exit `"`namelist```"
= class exit `"`cluster```"

```

```

> _____ end _optlist.dumpname
> s _____
= local ARGOPTNAMES `"`cluster```"
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
    di as err "vcetype `:word 1 of `AND'`' specified twice"
    exit 198
}
- local pswallowed : list uniq pswallowed

```

```

- local pwlist robust cluster
- foreach n of local pwallowed {
    local lc = lower(`n`)
    local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
- }
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
- }
- }
- local 0 `""`user"""
= local 0 `", robust"
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varnam
> e) ]
- if `""`vce""' != "" {
= if `""' != "" {
    gettoken name args : vce, parse(" ,")
    local args : list retok args
    capture ParseVCE `o' `a' , `name'
    if c(rc) {
        di as err "vcetype {bf:`name'} not allowed"
        exit 198
    }
    local name `r(vce)'
    if `weight'" == "pweight" & !`:list name in pwlist' {
        di as err "pweights are not allowed with vce(`name')"
        exit 198
    }
    return add
    if `""`robust""' != "" & !inlist(`name","",,"robust","eim","oi
> m","cluster") {
        opts_exclusive "`robust' vce(`name')"
    }
    if `name'" == "cluster" {
        if `args'" == "" {
            di as err "invalid vce(cluster) option"
            exit 198
    }
}

```

```

}
confirm var `args'
unab args : `args'
local markout `args'
if "`cluster'" != "" {
if !`:list args == cluster' {
di as err "options cluster() and vce(cluster) are in conflict"
exit 100
}
}
}
else if "`cluster'" != "" & !inlist("`name'", "eim", "oim") {
opts_exclusive "cluster() vce(`name')"
}
if `"`args'"' != "" {
if !`:list name in ARGOPTNAMES' {
di as err "invalid vce() option"
exit 198
}
if "`name'" == "hc2" {
confirm var `args'
unab args : `args'
local markout `args'
}
return local vceargs `":list retok args'"
}
else if `:list name in ARGOPTNAMES' {
if "`noargopt_is_ok'" == "" {
di as err "invalid vce() option"
exit 198
}
}
}
}
- else {
- if "`weight'" == "pweight" | "`robust'" != "" {
= if "" == "pweight" | "robust" != "" {
- local vce robust
- }
- if "`cluster'" != "" {
= if "" != "" {
local vce cluster
local args `cluster'
local markout `cluster'
}
- return local vce `"`vce'"
= return local vce `"`robust'"

```

```

    - return local vceargs `"`args`"
= return local vceargs `"""
- }
- if "`return(vce)`" != "" {
= if "robust" != "" {
- if `"`return(vceargs)`" != "" {
= if `""` != "" {
    local ss "
}
- return local vceopt `"vce(`return(vce)`ss`return(vceargs)`)"
> '
= return local vceopt `"vce(robust)`
- }
- if "`return(vce)`" == "cluster" {
= if "robust" == "cluster" {
    return local cluster `return(vceargs)`
}
- if inlist("`return(vce)`", "robust", "cluster") {
= if inlist("robust", "robust", "cluster") {
- return local robust robust
}
- if "`touse`" != "" {
= if `""` != "" {
    if "`markout`" != "" {
        markout `touse` `markout`, strok
    }
}

```

```

> _____ end _vce_pars
> e _____
    - local vce `r(vce)'
= local vce robust
- }
- else if "`weight`" == "pweight" {
= else if `""` == "pweight" {
    local vce robust
}
- if `:length local svy` {
= if 0 {
    local vce svy
}
- if `"`vce`" == "cluster" {
= if `"`robust`" == "cluster" {
    local cluster `r(cluster)'
    markout $ML_sample `cluster', strok
}

```

```

- if `:length local group' {
= if 0 {
    markout $ML_sample `group', strok
    global ML_group : copy local group
    if bsubstr(`:type `group`',1,3) == "str" {
        if `interactive' {
            SetGlobalVar ML_grp : _MLgr
        }
        else {
            global ML_grp : tempvar
            if `moptobj' != "" {
                global ML_grp `moptobj'$ML_grp
            }
        }
        quietly egen $ML_grp = group(`group')
        if ! `:length local cluster' {
            local cluster : copy global ML_grp
        }
        else {
            if ! `:length local cluster' {
                local cluster : copy global ML_group
            }
        }
    }
- if "$ML_samp" != "$ML_sample" {
= if "__000005" != "__000005" {
    quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
- if `:length local vce' == 0 {
= if 6 == 0 {
    if `technique' == "bhhh" {
        local vce opg
    }
    else local vce oim
}
- if inlist(`vce', "robust", "cluster") & bsubstr(`evaltype',1
>,1) == "d" {
= if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1) ==
>"d" {
    local optname = cond(`svy'=="","`vce(`vce')','svy")
    di as err "option `optname' is not allowed with evaltype `evalty
> pe'"
        exit 198
}
- if `:length local crittype' == 0 {

```

```

= if 0 == 0 {
- if inlist("`vce'", "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
- local crittype "log pseudolikelihood"
- }
- else local crittype "log likelihood"
- }
- global ML_waldtest `waldtest'
= global ML_waldtest 0
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {
        SetGlobalVar ML_w : _MLw
    }
    else {
        global ML_w : tempvar
        if `""`moptobj""' != ""' {
            global ML_w `moptobj'$ML_w
        }
    }
}
- if `:length local weight' {
= if 0 {
    if `""`moptobj""' != ""' {
        cap drop $ML_w
    }
    quietly gen double $ML_w `exp' if $ML_samp
    local wtype `""`weight""'
    local wexp `""`exp""'
    global ML_wtyp : copy local wtype
    global ML_wexp : copy local wexp
    if `wtype'" == "iweight" | `svy'" != ""' {
        local zeroweight zeroweight
    }
}
- if inlist("`vce'", "svy", "cluster") {
= if inlist("robust", "svy", "cluster") {
    if `interactive' {
        SetGlobalVar ML_subv : _MLsu
    }
    else {
        global ML_subv : tempvar
        if `""`moptobj""' != ""' {
            global ML_subv `moptobj'$ML_subv
        }
    }
}

```

```

    }
- quietly count if $ML_sample
= quietly count if __000005
- if r(N) == 0 {
    error 2000
}
- if `"`weight`" != "" {
= if `"" != "" {
    quietly count if $ML_sample & $ML_w != 0
    if r(N) == 0 {
        di in gr "all observation have zero weights"
        exit 2000
    }
}
- if `:length local lf0' {
= if 0 {
    if `:list sizeof lf0' != 2 {
        di as err "lf0(`lf0') invalid"
        exit 198
    }
    global ML_k0 : word 1 of `lf0'
    global ML_ll_0 : word 2 of `lf0'
    confirm integer number $ML_k0
    confirm number $ML_ll_0
    if $ML_k0 < 0 {
        di as err "lf0(`lf0') invalid"
        exit 198
    }
}
- if "`obs'" == "" {
= if "" == "" {
- if "`wtype'" != "fweight" {
= if "" != "fweight" {
- quietly count if $ML_sample
= quietly count if __000005
- local obs = r(N)
-
- else {
    sum $ML_w if $ML_sample, mean
    local obs = r(sum)
}
-
- if `:length local iterid' {
= if 0 {
    local iterid = trim(bsubstr(`"`iterid`"',1,32))
}

```

```

- if `:length local crittype' {
= if 20 {
- local crittype = trim(bsubstr(`"crittype'",1,32))
= local crittype = trim(bsubstr(`"log pseudolikelihood'",1,32))
- }
- if `:length local derivscale' {
= if 0 {
    confirm matrix `derivscale'
}
- if `:length local derivh' {
= if 0 {
    confirm matrix `derivh'
}
- local l : strlen local deriv
- ParseUsemin, `deriv' len(`l')
= ParseUsemin, len(0)



---


> _____ begin mopt.ParseUsemi
> n _____
      - capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2 mis
> singokay) NOMIN MIN]
      - if (_rc) {
          syntax [, LEN(integer 0) MIN1(string) NOMIN MIN]
      }
      - if `"`min1`"' != "" & `"`nomin`"' != "" {
= if `""' != "" & `""' != "" {
          di as err "options {bf:min()} and {bf:nomin} are mutually excl
> usive"
          exit 198
      }
      - if `"`min`"' != "" & `"`nomin`"' != "" {
= if `""' != "" & `""' != "" {
          di as err "options {bf:min} and {bf:nomin} are mutually exclus
> ive"
          exit 198
      }
      - if (`"`min1`"' != "") {
= if (`""' != "") {
          if (_rc) {
              capture confirm matrix `min1'
          if (_rc) {
              di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
              exit 198
          }
      }

```

```

        local deriv `min1'
    }
- else if (```min''' != "") {
= else if (`''' != "") {
    if (`len' > length(```min'')) {
        di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
        exit 198
    }
    local deriv 1
}
- else {
- if (`len' > 0) {
= if (0 > 0) {
    if ("`nomin'" == "") {
        di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
        exit 198
    }
    else if (`len' > length(``nomin'')) {
        di as err "options {bf:min()} and {bf:nomin} are mutually excl
> usive"
        exit 198
    }
    else {
        local deriv 0
    }
}
- else {
- local deriv 0
- }
- }
- sreturn local deriv `deriv'
= sreturn local deriv 0

```

```

> _____ end mopt.ParseUseli
> n _____
- local deriv = s(deriv)
- if `:length local gnwmatrix' {
= if 0 {
    confirm matrix `gnwmatrix'
}
- `vv' mata: Mopt_model()
= version 18: mata: Mopt_model()

```

```

> _____ begin mopt_check_progra

```

```

> m -----
    - version 10
    - args name
    - capture confirm name `name'
    = capture confirm name nbreg_lf
    - if c(rc) {
        di as err "unrecognized command: `name' invalid command name
> "
        exit 199
    }
    - capture which `name'
    = capture which nbreg_lf
    - if !c(rc) {
    - exit

-----
> ----- end mopt_check_program
> m -----
    - global ML_stat model
    - if !`interactive' {
    = if !0 {
    - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptob
> j ')
    = version 18: MaxMin maximize, nooutput search(off) moptobj()

-----
> ----- begin mopt.MaxMi
> n -----
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - ChkMacros

-----
> ----- begin mopt.ChkMacro
> s -----
    - if "$ML_stat" != "model" {
    = if "model" != "model" {
        di as err "you must issue -ml model- first"
        exit 198
    }
    - capture confirm var $ML_samp $ML_w $ML_subv
    = capture confirm var __000005 __000005
    - if c(rc) {
        di as err "Since issuing the -ml model- statement, you have
> done something to drop" _n "temporary variables ml added to your data. You
> must start again."
        Clear
        exit 111
    }

```

```

> _____ end mopt.ChkMacro
> s _____
  - syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0)
> LTOLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) Q
> TOLerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numlist m
> ax=1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly DOOPT S
> EArch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCLEAR
> NOL0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GRADie
> nt Hessian noSKIpline noOUTput Level(cilevel) moptobj(string) * ]
  - if `:length local nrtolerance' {
= if 0 {
  opts_exclusive "nrtolerance() `nonnrtolerance'"
}
  - if `:length local qtolerance' {
= if 0 {
  opts_exclusive "qtolerance() `nonnrtolerance'"
}
  - opts_exclusive "`nonnrtolerance' `shownnrtolerance'"
= opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
  - exit

```

```

> _____ end opts_exclusiv
> e _____
  - if `:length local shownnrtolerance' {
= if 0 {
  local showtolerance showtolerance
}
  - if "$ML_preserve" != "no" {
= if "no" != "no" {
  if `:length local score' {

```

```

        di as smcl as err "May not specify {bf:score()} option unless"
> _n "      a) estimation subsample is the entire data in memory, or" _n "
> b) you specify option {bf:nopreserve} on {bf:ml model} statement (meaning"
> _n "          your evaluation program explicitly restricts itself to obs" _n
> "          for which {bf:$}" "{bf:ML_samp==1}.""
        exit 198
    }
preserve
local N = c(N)
quietly keep if $ML_sample
if (`N' != c(N)) {
    mata: Mopt_init_regetviews()
}
}
- if `:length local score' {
= if 0 {
    SetupScore `"$ML_evaltype"' `"`score'"' $ML_n $ML_dim
    local scores "`s(scores)'"
}
- _parse_iterlog, `nolog' `log'
= _parse_iterlog,

```

```

> _____ begin _parse_iterlo
> g _____
    - version 16
    - syntax [, NOLOG LOG]
    - if "`log'`nolog'" != "" {
= if "" != "" {
    opts_exclusive "`log' `nolog'"
}
- else if "`c(iterlog)'" == "on" {
= else if "on" == "on" {
    - local log log
}
- else {
    local nolog nolog
}
- sreturn local log `log'
= sreturn local log log
- sreturn local nolog `nolog'
= sreturn local nolog

```

```

> _____ end _parse_iterlo
> g _____
    - local log "`s(nolog)'"
= local log ""

```

```

    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `
> coefdiffs'
    = local tropts
    - if "`tropts'" != "nolog" {
    = if "" != "nolog" {
    - local tropts `tropts' `gradient' `hessian'
    = local tropts
    - if "`skipline'" == "" {
    = if "" == "" {
    - if "`iterate'" != "0" | `:length local tropts' {
    = if "" != "0" | 0 {
    - di

    - }
    - }
    - }
    - else {
        local gradient
        local hessian
        local nolog nolog
    }
    - if "`search'" != "off" & "`iterate'" != "0" {
    = if "off" != "off" & "" != "0" {
        if "`search'" == "quietly" {
            local sopts nolog
        }
        else {
            if `:length local tropts' {
                if "`tropts'" != "nolog" {
                    local sopts trace
                }
                else local sopts nolog
            }
        }
        if "`search'" == "norescale" {
            local sopts `sopts' norescale
        }
        Search `bounds', nopreserve `sopts' `repeat' `maxmin'
    }
    - tempname value b V iV
    - `vv' mata: Mopt_maxmin()
    = version 18: mata: Mopt_maxmin()



---


> _____ begin nbreg_l
> f _____
    - version 6.0

```

```

- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000Q = __00000J, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000R = __00000J, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
    - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsu __00000K = lngamma(__00000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)
> ) - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 2 == 0 | __00000K==. { exit }
    - tempfile alpha
    - tempvar mu p
    - quietly {
        - gen double `mu' = exp(`xb') if $ML_samp
        = gen double __00000U = exp(__00000Q) if __000005
        - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
        = gen double __00000V = 1/(1+exp(__00000Q+__00000R)) if __0000
> 05
        - if `lnalpha'<-20 {
        = if __00000R<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp
        }
        - else {
            - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
            = replace __00000N = __00000V*(piq_timing_max-__00000U) if __0
> 00005
                - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
                    = replace __00000 = __00000S*(digamma(__00000S) - digamma(piq
> _timing_max+__00000S) - ln(__00000V)) + __00000V*(piq_timing_max-__00000U) i
> f __000005

```

```

        - }
        - }
        - $ML_ec tempname g1 g2
        = * tempname g1 g2
        - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
        = * mlvecsum __00000K = __00000N, eq(1)
        - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
        = * mlvecsum __00000K = __000000, eq(2)
        - $ML_ec matrix `g' = (`g1',`g2')
        = * matrix __00000L = (,,
        - if `todo' == 1 | `lnf'==. { exit }
        = if 2 == 1 | __00000K==. { exit }
        - tempname alpha d11 d12 d22
        - scalar `alpha' = exp(`lnalpha')
        = scalar __00000W = exp(__00000R)
        - if `lnalpha' < -20 {
        = if __00000R < -20 {
            mlmatsum `lnf' `d11' = `mu', eq(1)
            mlmatsum `lnf' `d12' = 0, eq(1,2)
            mlmatsum `lnf' `d22' = 0, eq(2)
        }
        - else {
        - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __00000K __00000X = __00000U*__00000V*(__00000W*__0
> 0000V*(piq_timing_max-__00000U)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(p
> iq_timing_max-__00000U), eq(1,2)
        - mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m)*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __00000K __00000Z = __00000S*(digamma(__00000S) - d
> igamma(piq_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(piq_timi
> ng_max+__00000S) - trigamma(__00000S)) + __00000U*__00000V*(__00000W*__0000
> 0V*(piq_timing_max-__00000U)- 1), eq(2)
        - }
        - matrix `H' = (`d11','`d12'\ `d12'',`d22')
        = matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)

> _____ end nbreg_l
> f _____
Iteration 0: Log pseudolikelihood = -455.8057
> _____ begin nbreg_l

```

```

> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsum __00000K = lngamma(__00000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)
> ) - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __00000K==. { exit }

_____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {

```

```

        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__0000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__0000S) - __0000S*ln1p(exp(__0000Q+__0000R)
> ) - piq_timing_max*ln1p(exp(-__0000Q-__0000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __0000K==. { exit }



---


> _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __0000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __0000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __0000S = exp(-__0000R)
    - if `lnalpha' < -20 {
    = if __0000R < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__0000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__0000S) - __0000S*ln1p(exp(__0000Q+__0000R)
> ) - piq_timing_max*ln1p(exp(-__0000Q-__0000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __0000K==. { exit }



---


> _____ end nbreg_l
> f _____

```

```

> ----- begin nbreg_l -----
> f -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__00000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)
> ) - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __00000K==. { exit }
        - tempfile alpha
        - tempvar mu p
        - quietly {
            - gen double `mu' = exp(`xb') if $ML_samp
            = gen double __00000U = exp(__00000Q) if __000005
            - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
            = gen double __00000V = 1/(1+exp(__00000Q+__00000R)) if __0000
> 05
        - if `lnalpha'<-20 {
        = if __00000R<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp
        }
        - else {
            - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
            = replace __00000N = __00000V*(piq_timing_max-__00000U) if __0
> 00005
            - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp

```

```

= replace __000000 = __00000S*(digamma(__00000S) - digamma(piq
> _timing_max+__00000S) - ln(__00000V)) + __00000V*(piq_timing_max-__00000U) i
> f __000005
    -
    -
    - $ML_ec tempfile g1 g2
    = * tempfile g1 g2
    - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
    = * mlvecsum __00000K = __00000N, eq(1)
    - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
    = * mlvecsum __00000K = __000000, eq(2)
    - $ML_ec matrix `g' = (`g1',`g2')
    = * matrix __00000L = (,)
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __00000K==. { exit }
    - tempfile alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __00000W = exp(__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlmatsum `lnf' `d11' = `mu', eq(1)
        mlmatsum `lnf' `d12' = 0, eq(1,2)
        mlmatsum `lnf' `d22' = 0, eq(2)
    }
    - else {
        - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __00000K __00000X = __00000U*__00000V*(__00000W*__0
> 0000V*(piq_timing_max-__00000U)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(p
> iq_timing_max-__00000U), eq(1,2)
        - mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __00000K __00000Z = __00000S*(digamma(__00000S) - d
> igamma(piq_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(piq_timi
> ng_max+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__0000
> 0V*(piq_timing_max-__00000U)- 1), eq(2)
        -
        - matrix `H' = (`d11','`d12' \ `d12'' ,`d22')
        = matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)

> _____ end nbreg_l
> f _____

```

Iteration 1: Log pseudolikelihood = **-442.72954**

```
> _____ begin nbreg_l  
> f _____  
    - version 6.0  
    - args todo b lnf g H sc1 sc2  
    - tempvar xb  
    - tempname lnalpha m  
    - mleval `xb' = `b', eq(1)  
    = mleval __00000Q = __00000J, eq(1)  
    - mleval `lnalpha' = `b', eq(2) scalar  
    = mleval __00000R = __00000J, eq(2) scalar  
    - local y "$ML_y1"  
    = local y "piq_timing_max"  
    - scalar `m' = exp(-`lnalpha')  
    = scalar __00000S = exp(-__00000R)  
    - if `lnalpha' < -20 {  
    = if __00000R < -20 {  
        mlsu  
        msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'  
        }  
    - else {  
        mlsu  
        msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m'  
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))  
        = mlsu  
        msum __00000K = lngamma(__00000S+piq_timing_max) - lngamma(  
> piq_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)  
> ) - piq_timing_max*ln1p(exp(-__00000Q-__00000R))  
        - }  
        - if `todo' == 0 | `lnf'==. { exit }  
        = if 0 == 0 | __00000K==. { exit }  
    _____
```

```
> _____ end nbreg_l  
> f _____  
_____
```

```
> _____ begin nbreg_l  
> f _____  
    - version 6.0  
    - args todo b lnf g H sc1 sc2  
    - tempvar xb  
    - tempname lnalpha m  
    - mleval `xb' = `b', eq(1)  
    = mleval __00000Q = __00000J, eq(1)  
    - mleval `lnalpha' = `b', eq(2) scalar  
    = mleval __00000R = __00000J, eq(2) scalar  
    - local y "$ML_y1"  
    = local y "piq_timing_max"  
    - scalar `m' = exp(-`lnalpha')
```

```

= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(`xb'-`lnalpha'))
= mlsum __00000K = lngamma(__00000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)
> ) - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000K==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000Q = __00000J, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000R = __00000J, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(`xb'-`lnalpha'))
= mlsum __00000K = lngamma(__00000S+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)
> ) - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __00000K==. { exit }
- tempfile alpha

```

```

- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000U = exp(__00000Q) if __000005
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000V = 1/(1+exp(__00000Q+__00000R)) if __0000
> 05
- if `lnalpha'<-20 {
= if __00000R<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000N = __00000V*(piq_timing_max-__00000U) if __0
> 00005
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000 = __00000S*(digamma(__00000S) - digamma(piq
> _timing_max+__00000S) - ln(__00000V)) + __00000V*(piq_timing_max-__00000U) i
> f __00005
- }
- }
- $ML_ec tempname g1 g2
= * tempname g1 g2
- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
= * mlvecsum __00000K = __00000N, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __00000K = __00000, eq(2)
- $ML_ec matrix `g' = (`g1','g2')
= * matrix __00000L = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __00000K==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __00000W = exp(__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlmatsum `lnf' `d11' = `mu', eq(1)
    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
= mlmatsum __00000K __00000X = __00000U*__00000V*(__00000W*__0

```

```

> 0000V*(piq_timing_max-_00000U)+1), eq(1)
      - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
      = mlmatsum __00000K __00000Y = __0000W*__00000U*__00000V^2*(p
> iq_timing_max-_00000U), eq(1,2)
      - mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m)*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p`*(`alpha`*`p'
> *(`y'-`mu')- 1), eq(2)
      = mlmatsum __00000K __0000Z = __0000S*(digamma(__0000S) - d
> igamma(piq_timing_max+_00000S) - ln(__00000V) - __0000S*(trigamma(piq_timi
> ng_max+_00000S) - trigamma(__0000S))) + __0000U*__00000V*(__0000W*__0000
> 0V*(piq_timing_max-_00000U)- 1), eq(2)
      - }
      - matrix `H' = (`d11','d12' \ `d12','`d22')
      = matrix __0000M = (__0000X,__0000Y \ __0000Y',__0000Z)


---


> _____ end nbreg_l
> f _____
Iteration 2: Log pseudolikelihood = -442.72952


---


> _____ begin mopt_pos
> t _____
      - args b V C wgt touse depvar
      - if `:length local touse' {
      = if 8 {
      - tempname esamp
      - quietly gen byte `esamp' = `touse'
      = quietly gen byte __0000S = __00005
      - }
      - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname(`de
> pvar') buildfvinfo
      = ereturn post __0000Q __0000R [], esample(__0000S) depnam
> e(piq_timing_max) buildfvinfo


---


> _____ end mopt_pos
> t _____
      - ereturn scalar k_eq_model = abs($ML_waldtest)
      = ereturn scalar k_eq_model = abs(0)
      - if `:length global ML_ll_0' {
      = if 0 {
      ereturn scalar ll_0 = $ML_ll_0
      if `:length global ML_rank0' {
      ereturn scalar rank0 = $ML_rank0
      ereturn scalar df_m = e(rank) - $ML_rank0
      }
      else ereturn scalar df_m = e(rank) - $ML_k0

```

```

        }
        - if !`:length global ML_ll_0' | inlist(e(vce), "robust", "clust
> er", "linearized") {
            = if !0 | inlist(e(vce), "robust", "cluster", "linearized") {
            - if "$ML_svy" == "" {
            = if "" == "" {
            - _prefix_model_test, minimum
            _____ begin _prefix_model_tes
> t _____
            - version 9
            - syntax [name(name=cmd)] [, svy noADJust noSVYadjust MINimum
> ]
            - if (inlist(`cmd',"asmixlogit","cmmixlogit","cmxtmixlogit")
> ) {
                = if (inlist("", "asmixlogit", "cmmixlogit", "cmxtmixlogit")) {
                    _asmixtest, `svy' `adjust' `svyadjust'
                    exit
                }
                - local K = 1
                - if "`e(k_eq_model)' != "" {
                = if "0" != "" {
                    - capture confirm integer number `e(k_eq_model)'
                    = capture confirm integer number 0
                    - if ! c(rc) {
                    - local K = e(k_eq_model)
                    - }
                    - }
                    - if "`e(k_eq_model_skip)' != "" {
                    = if "" != "" {
                        capture confirm integer number `e(k_eq_model_skip)'
                        if ! c(rc) {
                        local skip = e(k_eq_model_skip)
                        }
                    }
                    - ereturn local df_m
                    - ereturn local F
                    - ereturn local chi2
                    - ereturn local chi2type
                    - ereturn local p
                    - if (`K' == 0) {
                    = if (0 == 0) {
                    - exit
                    _____ end _prefix_model_tes
> t _____

```

```

- }
- else {
    _prefix_model_test, $ML_svy $ML_noadj
}
-
- else if `:length global ML_ll_0' {
= else if 0 {
    if `"`maxmin`"' == "minimize" {
        ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
    }
    else {
        ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
    }
    ereturn scalar p = chi2tail(e(df_m), e(chi2))
    ereturn local chi2type "LR"
}
-
- if `:length global ML_wexp' {
= if 0 {
    ereturn local wtype `"$ML_wtyp"'
    ereturn local wexp `"$ML_wexp"'
}
-
- if `:length global ML_group' {
= if 0 {
    ereturn local group `"$ML_group"'
    if `"`e(clustvar)`"' == "$ML_grp" & "$ML_grp" != "" {
        ereturn local clustvar `"$ML_group"'
    }
}
-
- ereturn local cmd "ml"
-
- if `:length local score' {
= if 0 {
    mata: Mopt_score(0)
    ereturn local scorevars `scores'
}
-
- if "$ML_preserve" != "no" {
= if "no" != "no" {
    restore
    if "`e(prefix)`'" == "svy" & e(N_strataomit) {
        tempname v
        quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v')
> subpop(`e(subpop)') touse($ML_sample)
}
        ereturn repost, esample($ML_sample)
}
-
- if `"`moptobj`"' != "" {
= if `""' != "" {

```

```

        local clear noclear
    }
- if `:length local clear' {
= if !0 {
- Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop __000005
    - capture drop $ML_samp
    = capture drop __000005
    - capture drop $ML_sample
    = capture drop __000005
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*


---


> _____ end mopt.Clea
> r _____
    - }
    - else {
        capture confirm var $ML_sample
        if c(rc) {
            quietly gen byte $ML_sample = e(sample)
        }
    }
    - if `:length local output' == 0 {
= if 8 == 0 {
        Display, level(`level') `options'
    }


---


> _____ end mopt.MaxMi
> n _____
    - }


---


> _____ end mopt.Mode
> l _____
    - if c(rc) {
        local rc = c(rc)
        Clear
        exit `rc'

```

```

        }
    - exit


---


> _____ end mop
> t _____
    - exit


---


> _____ end m
> l _____
    - mat `b0' = e(b)
    = mat __000003 = e(b)
    - scalar `ll0' = e(ll)
    = scalar __000004 = e(ll)
    - local continu "continue"
    - }
    - if `""`from'""=="" {
    = if `""'=="" {
    - if `constan'""=="" {
    = if ""=="" {
    - local dim = colsof(`bp')
    = local dim = colsof(__000002)
    - if `dim' > 1 {
    = if 8 > 1 {
    - tempvar xb
    - qui mat score `xb' = `bp' if `touse'
    = qui mat score __000005 = __000002 if __000000
    - if `weight'""!="" {
    = if ""!="" {
        local wt `"[aw`exp]"'
    }
    - summarize `xb' `wt' if `touse', meanonly
    = summarize __000005 if __000000, meanonly
    - if `offset'""!="" {
    = if ""!="" {
        qui replace `xb' = `xb' + `b0'[1,1] - r(mean) + `offset'
    }
    - else {
    - qui replace `xb' = `xb' + `b0'[1,1] - r(mean)
    = qui replace __000005 = __000005 + __000003[1,1] - r(mean)
    - }
    - mat `bp'[1,`dim'] = `bp'[1,`dim'] + `b0'[1,1] - r(mean)
    = mat __000002[1,8] = __000002[1,8] + __000003[1,1] - r(mean)
    - mat `bp' = (`bp', `b0'[1,2..2])
    = mat __000002 = (__000002, __000003[1,2..2])
    - `LLprog' `y' `xb' `b0'[1,2] [`weight``exp'] if `touse', nobs(`r(N)')
    = LLalpha piq_timing_max __000005 __000003[1,2] [] if __000000, nobs(218

```

```

> )


---


> _____ begin nbreg.LLalph
> a _____
    - gettoken y 0 : 0
    - gettoken z 0 : 0
    - gettoken b0 0 : 0
    - syntax [fw aw pw iw] [if], Nobs(string)
    - if "`weight'"!="`"
    = if ""!="`"
        if "`weight'"=="fweight" {
            local wt `"[fw`exp']``"
        }
        else local wt `"[aw`exp']``"
    }
    - tempfile lalpha m
    - scalar `lalpha' = `b0'
    = scalar __00006 = __00003[1,2]
    - local bound -20
    - if `lalpha' < `bound' { scalar `lalpha' = `bound' }
    = if __00006 < -20 { scalar __00006 = -20 }
    - scalar `m' = exp(-`lalpha')
    = scalar __00007 = exp(-__00006)
    - qui replace `z' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m') -
> `m'*ln1p(exp(`z'+`lalpha')) - `y'*ln1p(exp(-`z'-`lalpha')) `if'
        = qui replace __00005 = lngamma(__00007+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00007) - __00007*ln1p(exp(__00005+__00006))
> - piq_timing_max*ln1p(exp(-__00005-__00006)) if __00000
        - summarize `z' `wt' `if', meanonly
        = summarize __00005 if __00000, meanonly
        - if r(N) != `nobs' { exit }
        = if r(N) != 218 { exit }
        - if "`weight'"=="aweight" {
        = if ""=="aweight" {
            ret scalar lnf = r(N)*r(mean)
        }
        - else ret scalar lnf = r(sum)


---


> _____ end nbreg.LLalph
> a _____
    - if r(lnf) > `ll0' & r(lnf)<. {
    = if r(lnf) > __00004 & r(lnf)<. {
        - local initopt "init(`bp')"
        = local initopt "init(__00002)"
        - }
        - }

```

```

- if "`initopt'"=="" {
= if "init(_000002)"=="" {
  local initopt "init(`b0')"
}
-
- else {
  tempfile b0
  mat `b0' = (0)
  if _caller() < 15 {
  mat colnames `b0' = ln`parm':_cons
}
else {
  mat colnames `b0' = /ln`parm'
}
mat `bp' = (`bp',`b0')
local initopt "init(`bp')"
}
`nohead' di in gr _n "Fitting full model:"
= di in gr _n "Fitting full model:"

```

Fitting full model:

```

- }
- else local initopt `"init(`from')"
= else local initopt `"init()"
- `vv' ml model `mm' `prog' (`yname': `y'=`xvars', `constan' `offopt') /
> ln`parm' if `touse' [`weight``exp'], collinear missing max nooutput nopreser
> ve `initopt' search(off) `mlopts' `scopt' `robust' `vce' `continu' title(`ti
> tle') diparm(ln`parm', exp label(``parm'')) `negh' `moptobj'
= version 18: ml model e2 nbreg_lf (piq_timing_max: piq_timing_max=cb_au
> thors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, )
> /lnalpha if __000000 [], collinear missing max nooutput nopreserve init(__00
> 0002) search(off) robust vce(robust) continue title(Negative binomial regr
> ession) diparm(lnalpha, exp label("alpha")) negh

```

```

> _____ begin m
> l _____

```

```

- if _caller()>=11 {
- mopt `0'
= mopt model e2 nbreg_lf (piq_timing_max: piq_timing_max=cb_authors_ex
> t vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, ) /lnalpha
> if __000000 [], collinear missing max nooutput nopreserve init(__000002) se
> arch(off) robust vce(robust) continue title(Negative binomial regression)
> diparm(lnalpha, exp label("alpha")) negh

```

```

> _____ begin mop
> t _____

```

```

- local vv : di "version" string(_caller()) ":""
- version 12
- gettokn subcmd 0 : 0, parse(" ,")
- local lcnd : length local subcmd
- if ``subcmd'' == "clear" {
= if "model" == "clear" {
    Clear
    exit
}
- if ``subcmd''' == "hold" {
= if ``model''' == "hold" {
    ml_hold `0'
    exit
}
- if ``subcmd''' == "unhold" {
= if ``model''' == "unhold" {
    ml_unhold `0'
    exit
}
- if ``subcmd'' == "score" {
= if "model" == "score" {
    if _caller() > 12 {
        `vv' Score `0'
    }
    else {
        Score `0'
    }
    exit
}
- if ``subcmd'' == "count" {
= if "model" == "count" {
    Count `0'
    exit
}
- if ``subcmd'' == "trace" {
= if "model" == "trace" {
    Trace `0'
    exit
}
- if ``subcmd'' == bsubstr("graph",1,max(2,`lcnd')) {
= if "model" == bsubstr("graph",1,max(2,5)) {
    Graph `0'
    exit
}
- if ``subcmd'' == "init" {
= if "model" == "init" {

```

```

Interactive 0
`vv' Init `0'
exit
}
- if ``subcmd'' == bsubstr("maximize",1,max(3,`lcmd')) {
= if "model" == bsubstr("maximize",1,max(3,5)) {
    Interactive 1
    `vv' MaxMin maximize `0'
    exit
}
- if ``subcmd'' == bsubstr("minimize",1,max(3,`lcmd')) {
= if "model" == bsubstr("minimize",1,max(3,5)) {
    Interactive 1
    `vv' MaxMin minimize `0'
    exit
}
- if ``subcmd'' == bsubstr("display",1,max(2,`lcmd')) {
= if "model" == bsubstr("display",1,max(2,5)) {
    Display `0'
    exit
}
- if ``subcmd'' == bsubstr("footnote",1,max(4,`lcmd')) {
= if "model" == bsubstr("footnote",1,max(4,5)) {
    ml_footnote `0'
    exit
}
- if ``subcmd'' == "," {
= if "model" == "," {
    Display, `0'
    exit
}
- if ``subcmd'' == "model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'
    = version 18: capture noi Model e2 nbreg_lf (piq_timing_max: piq_ti
> ming_max=cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo
> open wlth, ) /lnalpha if __000000 [], collinear missing max nooutput nopres
> erve init(__00002) search(off) robust vce(robust) continue title(Negative
> binomial regression) diparm(lnalpha, exp label("alpha")) negh


---


> l _____ begin mopt.Mode
> l _____
    - local version = string(_caller())
    - local vv : di "version `version':"
    = local vv : di "version 18:"
    - version 12

```

```

    - syntax anything(id="model" name=spec) [if] [in] [fw aw pw iw] [, 
> BRACKET COLLinear MISSING CONTinue lf0(string) INIT(string) CONSTraints(str
> ing) noCNSNOTes VCE(passthru) NEGH NOPREserve TECHnique(string) ITERID(strin
> g) CRITtype(string) OBS(numlist max=1 >0) TItle(string) WALDtest(integer -1)
> SVY SUBpop(string) SRSsubpop noSVYadjust SCore(passthru) noOUTput noSCVARS
> GROUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIVSC
> ALE(string) DERIV(string) nrderiv GNWMATrix(string) KAUxiliary(numlist int >
> =0) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru) m
> optobj(string) USEVIEWS * ]
    - if ```moptobj''' == "" {
= if `""' == "" {
    - Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop
    - capture drop $ML_samp
    = capture drop
    - capture drop $ML_sample
    = capture drop
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*


---


> _____ end mopt.Clea
> r _____
    - }
    - local maxmin `minimize' `maximize'
    = local maxmin maximize
    - opts_exclusive "`maxmin'"
    = opts_exclusive "maximize"


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts maximize
    - local n 0
    - while ```opts''' != "" {
    = while `"maximize"' != "" {

```

```

- local ++n
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if `:length local maxmin' {
= if 8 {
- local interactive 0
- }
- else local interactive 1
- _get_diparmopts, diparmopts(`options') soptions syntaxonly
= _get_diparmopts, diparmopts(search(off) diparm(lnalpha, exp labe
> l("alpha")) soptions syntaxonly


---


> _____ begin _get_diparmopt
> s _____
- if _caller() < 8.2 {
    _get_diparmopts_8 `0'
    exit
}
- version 9
- local version : di "version " string(_caller()) ":""
- syntax [, diparmopts(string asis) EXECute soptions bottom plus
> SYNTAXonly * ]
- local goptions `options'
= local goptions
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk ,


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
- syntax name(id="macro name" name=c_diparm) [, diparm(string
> asis) Level(cilevel) dof(passthru) syntaxonly ]
- if `""`dof"" == "" & `""`e(df_r)`"" != "" {
= if `""` == "" & `""` != "" {
    capture confirm integer number `e(df_r)'

```

```

if !c(rc) {
local gdof dof(`e(df_r)')
}
capture
}
- else local gdof `"`dof`"""
= else local gdof `"""
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (`""`diparm`""` == "") exit
= if (`""` == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts`"""
= local 0 `", search(off) diparm(lnalpha, exp label("alpha"))`"""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while `""`diparm`""` != "" {
= while `""`lnalpha, exp label("alpha")`""` != "" {
- local ++k
- local single 1
- local after
- capture _on_colon_parse `diparm'
= capture _on_colon_parse lnalpha, exp label("alpha")


---


> _____ begin _on_colon_pars
> e _____
- version 8.2
- sreturn local before """
- sreturn local after """
- gettoken before after : 0, parse(":") bind match(par) quotes
- if `par` != "" {
= if `""` != "" {
    local before `"(`before')`"
}
- if `""`before`""` == ":" {
= if `""`lnalpha, exp label("alpha")`""` == ":" {
    sreturn local after `""`after`"""
    exit
}
- while `""`COLON`""` != ":" & `""`after`""` != "" {
= while `""` != ":" & `""` != "" {

```

```

        gettoken COLON after : after, parse(":") bind match(par) quo
> tes
    if "`par'" != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if `"`COLON`"' != ":" {
        local before `"`before' `COLON`"'
        local COLON
    }
    }
    - if `"`COLON`"' != ":" {
    = if `""' != ":" {
        - di as err `'' found where `:' expected"
        - exit 198
    }


---


> _____ end _on_colon_pars
> e _____
    - if !c(rc) {
        local single 0
        local diparm `"`s(before)`"'
        local after `"`s(after)`"'
    }
    - capture
    - SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptions
> '
    = SpliceGlobals diparm , diparm(lnalpha, exp label("alpha")) syn
> taxonly


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
    - syntax name(id="macro name" name=c_diparm) [, diparm(string
> asis) Level(cilevel) dof(passthru) syntaxonly ]
    - if `"`dof`"' == "" & `"`e(df_r)`"' != "" {
    = if `""' == "" & `""' != "" {
        capture confirm integer number `e(df_r)'
        if !c(rc) {
            local gdof dof(`e(df_r)')
        }
        capture
    }
    - else local gdof `"`dof`"'
    = else local gdof `""'
    - local glevel `level'
    = local glevel 95

```

```

- local lopt level(`glevel')
= local lopt level(95)
- if (`"`diparm'"' == "") exit
= if (`"lnalpha, exp label("alpha")'"' == "") exit
- local 0 `diparm'
= local 0 lnalpha, exp label("alpha")
- syntax anything(id="eqname(s)" name=eqspecs) [, Level(passth
> ru) dof(passthru) * ]
    - if ("`eqspecs'"' == "__sep__") exit
    = if ("lnalpha" == "__sep__") exit
    - if "`level'"' == "" {
    = if "" == "" {
        - local lopt level(`glevel')
        = local lopt level(95)
        - }
        - else local lopt `level'
        = else local lopt
        - if '`dof'"' == "" {
        = if `""'" == "" {
            - local dof `gdoF'"'
            = local dof `""'
            - }
            - if "`syntaxonly'"' == "" {
            = if "syntaxonly" == "" {
                c_local `c_diparm' ```eqspecs', `options' `lopt' `dof'"'
                }
            - else {
            - c_local `c_diparm' ```diparm'"'
            = c_local diparm `"lnalpha, exp label("alpha")'"'
            - }
    
```

```

> _____ end _get_diparmopts.SpliceGlobal
> s _____

```

```

- local diparm`k' ```diparm'"'
= local diparm1 `"lnalpha, exp label("alpha")'"'
- local diparmopts ```diparmopts' : `diparm'"'
= local diparmopts `": lnalpha, exp label("alpha")'"'
- if `single' | `":list retok after'"' == "" {
= if 1 | `""'" == "" {
- local 0 `", `options'"'
= local 0 `", search(off)"'
- syntax [, diparm(string asis) * ]
- }
- else {
    local diparm ```after'"'
    }

```

```

- }
- while `""`diparm`"" != "" {
= while `""` != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm `""`s(before)`"""
        local after `""`s(after)`"""
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `options
> '
    local diparm`k` `""`diparm`"""
    local diparmopts `""`diparmopts' : `diparm`"""
    if `single' | `""`:list retok after`""` == "" {
        local 0 `", `options`"""
        syntax [, diparm(string asis) * ]
    }
    else {
        local diparm `""`after`"""
    }
    }
- if `""`soptions`""` == "" {
= if `""`soptions`""` == "" {
    syntax [, diparm(string asis) ]
}
- if (`execute`"" == "") {
= if (`"" == "") {
- sreturn clear
- sreturn local options `""`options`"""
= sreturn local options `""`search(off)`"""
- sreturn local diparm `""`diparmopts`"""
= sreturn local diparm `": lalpha, exp label("alpha")`"""
- forval i = 1/`k` {
= forval i = 1/1 {
- sreturn local diparm`i` `""`diparm`i`"""
= sreturn local diparm1 `": lalpha, exp label("alpha")`"""
- }
- sreturn local k `k`
= sreturn local k 1
- exit

```

```
> _____ end _get_diparmopt
```

```
> s _____  
- forval k = 1/\`s(k)' {  
= forval k = 1/1 {  
- local diparm`k' `""`s(diparm`k')""'  
= local diparm1 `", exp label("alpha")>"'  
- }  
- local ndiparm `s(k)'  
= local ndiparm 1  
- local options `""`s(options)""'  
= local options `"- if `interactive' & `:length local options' {  
= if 0 & 11 {  
    local 0 , `options'  
    syntax [, NOTANOPTION]  
}  
- if `:length local nopreserve' | `:length local score' {  
= if 10 | 0 {  
- global ML_preserve no  
- }  
- else global ML_preserve yes  
- gettoken evaltype spec : spec  
- confirm name `evaltype'  
= confirm name e2  
- gettoken evaluator spec : spec  
- global ML_evaltype : copy local evaltype  
- if `:length local srssubpop' {  
= if 0 {  
    local 0 , srssubpop  
    syntax [, NONOPTION]  
    exit 198  
}  
- if `:length local subpop' {  
= if 0 {  
    local svy svy  
}  
- if `:length local svy' {  
= if 0 {  
    opts_exclusive "`vce' `svy'" vce  
    if `:length local weight' {  
        di as err "svy option not allowed with weights"  
        exit 198  
    }  
    global ML_noadj : copy local svyadjust  
}  
- global ML_svy : copy local svy  
- if _caller() >= 15 & c(userversion) >= 15 {
```

```

- local fparm ", freeparm"
- }
- local eqspec : copy local spec
- local ieq 0
- while `:length local eqspec' {
= while 122 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq'),1,1) == "/" {
= if bsubstr(trim("(piq_timing_max: piq_timing_max=cb_authors_ext
> vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, )"),1,1) ==
> "/" {
        local eq = bsubstr(trim(`eq'),2,.)
        local spec : subinstr local spec `/eq'" `"(`eq':`fparm')"' , w
> ord
    }
- else {
- gettoken p1 p2 : eq, parse("()")
- local p2 = trim(`p2')
= local p2 = trim(`piq_timing_max: piq_timing_max=cb_authors_ext
> vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, )')
- if bsubstr(`p2',1,1) == "," {
= if bsubstr("piq_timing_max: piq_timing_max=cb_authors_ext vint_l
> ate estimated stky_pr_rotemberg stky_pr_calvo open wlth, ),1,1) == "," {
        gettoken comma p2 : p2, parse(",")
        local p2 = trim(`p2')
    }
- if `p1` `p2' == "()" {
= if `(piq_timing_max: piq_timing_max=cb_authors_ext vint_late es
> timated stky_pr_rotemberg stky_pr_calvo open wlth, )' == "()" {
        local spec : subinstr local spec `/eq'" "(eq`ieq':)", word
    }
- }
- }
- while `:length local eqspec' {
= while 9 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq'),1,1) == "/" {
= if bsubstr(trim("/lnalpha"),1,1) == "/" {
- local eq = bsubstr(trim(`eq'),2,.)
= local eq = bsubstr(trim("/lnalpha"),2,.)
- local spec : subinstr local spec `/eq'" `"(`eq':`fparm')"' , w
> ord
    = local spec : subinstr local spec `/lnalpha'" `"(`lnalpha':, freep
> arm)', word

```

```

- }
- else {
  gettoken p1 p2 : eq, parse("(")
  local p2 = trim(``p2```)
  if bsubstr(``p2``,1,1) == "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim(``p2```)
  }
  if ``p1``p2`` == "()" {
    local spec : subinstr local spec ``eq`` "(eq`ieq':)", word
  }
}
-
- while `:length local eqspec' {
= while 0 {
  local ++ieq
  gettoken eq eqspec : eqspec, bind
  if bsubstr(trim(``eq``),1,1) == "/" {
    local eq = bsubstr(trim(``eq``),2,.)
    local spec : subinstr local spec `/`eq`` `"(``eq``:`fparm')``", w
> ord
  }
  else {
    gettoken p1 p2 : eq, parse("(")
    local p2 = trim(``p2```)
    if bsubstr(``p2``,1,1) == "," {
      gettoken comma p2 : p2, parse(",")
      local p2 = trim(``p2```)
    }
    if ``p1``p2`` == "()" {
      local spec : subinstr local spec ``eq`` "(eq`ieq':)", word
    }
  }
}
-
- if `interactive' {
= if 0 {
  SetGlobalVar ML_sample : _MLtua
}
-
- else {
- global ML_sample : tempvar
- if ``moptobj`` != "" {
= if `""` != "" {
  global ML_sample `moptobj'$ML_sample
}
-
- if ``moptobj`` != "" {

```

```

= if `""` != "" {
    cap drop $ML_sample
}
- `vv' mark $ML_sample `if' `in' [`weight``exp'], `zeroweight'
= version 18: mark __000006 if __000000    [],
- tempname eqlist
- .`eqlist' = ._eqlist.new, eqopts(NOCNStant FREEParm) eqargopts(
> OFFset EXposure) noneedvarlist numdepvars(0) needequal
= __000007 = ._eqlist.new, eqopts(NOCNStant FREEParm) eqargopts(
> OFFset EXposure) noneedvarlist numdepvars(0) needequal
    -class {
        -instance:
            -      array          n_depvars
            -      string         needequal
            -      string         noneedvarlist
            -      string         wtypes
            -      string         collinear
            -      string         nocons
            -      string         nocons_ignore
            -      double         n_eq
            -      string         gl_if
            -      string         gl_in
            -      string         gl_wgt
            -      string         gl_options
            -      _optlist       eq_opts_allowed
        -class {
            -instance:
                -      array options   = {}
                -      array names     = {}
            -}
            -      array          eq_list
            -      _optlist       mark_opts
            -      array          mark_list
            -      array          mark_name
            -      _optlist       smark_opts
            -      array          smark_list
            -      array          smark_name
            -      _optlist       rmcoll_opts
            -      array          rmcoll_list
            -      array          rmcoll_name
            -      _optlist       rmdcoll_opts
            -      array          rmdcoll_list
            -      array          rmdcoll_name
        -}
    -}

```

> _____ begin _eqlist.ne

```
> w _____  
      - version 9.2  
      - ._init  


---

  
> _____ begin _eqlist._ini  
> t _____  
      - version 9.2  
      - .n_eq = 0  
      - .gl_if = ""  
      - .gl_in = ""  
      - .gl_wgt = ""  
      - .gl_options = ""  
      - .eq_list = {}  


---

  
> _____ end _eqlist._ini  
> t _____  
      - ._setup `0'  
      = ._setup , eqopts(NOCONSTant FREEParm) eqargopts(OFFset EXPosur  
> e) noneedvarlist numdepvars(0) needequal  


---

  
> _____ begin _eqlist._setu  
> p _____  
      - version 9.2  
      - .mark_list = {}  
      - .mark_name = {}  
      - .mark_opts.reset  


---

  
> _____ begin _optlist.rese  
> t _____  
      - version 9  
      - .options = {}  
      - .names = {}  


---

  
> _____ end _optlist.rese  
> t _____  
      - .smark_list = {}  
      - .smark_name = {}  
      - .smark_opts.reset  


---

  
> _____ begin _optlist.rese  
> t _____  
      - version 9  
      - .options = {}  
      - .names = {}  


---

  
> _____ end _optlist.rese
```

```

> t _____
    - .rmcoll_list = {}
    - .rmcoll_name = {}
    - .rmcoll_opts.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
_____
> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
_____
> _____ end _optlist.rese
> t _____
    - syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVARLIST
> COMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLopts(n
> amelist) RMDCOLLOpts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL WTY
> PES(string) IGNORENOCONS ]
        - .eq_opts_allowed.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
_____
> _____ end _optlist.rese
> t _____
    - foreach opt of local eqopts {
        - .eq_opts_allowed.adopt `opt'
    = .eq_opts_allowed.adopt NOCONSTant
_____
> _____ begin _optlist.addop
> t _____
    - version 9

```

```

- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec')
= local mname = lower("NOCONSTant")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec'"
= .options.Arrpush "NOCONSTant"
- .names.Arrpush "`mname'"
= .names.Arrpush "noconstant"

> _____ end _optlist.addop
> t _____
- }
- .eq_opts_allowed.adopt `opt'
= .eq_opts_allowed.adopt FREEParm

> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec')
= local mname = lower("FREEParm")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec'"
= .options.Arrpush "FREEParm"
- .names.Arrpush "`mname'"
= .names.Arrpush "freeparm"

> _____ end _optlist.addop
> t _____
- }
- foreach opt of local eqargopts {
- .eq_opts_allowed.adopt `opt', passthru
= .eq_opts_allowed.adopt OFFset, passthru

> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec')
= local mname = lower("OFFset")

```

```

- if "`passthru'" != "" {
= if "passthru" != "" {
- local optspec `optspec'(passthru)
= local optspec OFFset(passthru)
- }
- .options.Arrpush "`optspec'"
= .options.Arrpush "OFFSET(passthru)"
- .names.Arrpush "`mname'"
= .names.Arrpush "offset"


---


> _____ end _optlist.addop
> t _____
- }
- .eq_opts_allowed.addopt `opt', passthru
= .eq_opts_allowed.addopt EXPosure, passthru


---


> _____ begin _optlist.addop
> t _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower("`optspec'")
= local mname = lower("EXPosure")
- if "`passthru'" != "" {
= if "passthru" != "" {
- local optspec `optspec'(passthru)
= local optspec EXPosure(passthru)
- }
- .options.Arrpush "`optspec'"
= .options.Arrpush "EXPosure(passthru)"
- .names.Arrpush "`mname'"
= .names.Arrpush "exposure"


---


> _____ end _optlist.addop
> t _____
- }
- local i 0
- foreach opt of local markopts {
  .mark_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local smarkopts {
  .smark_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmcollopts {
  .rmcoll_opts.addopt `opt', passthru
}

```

```

        }
        - local i 0
        - foreach opt of local rmdcollopts {
            .rmdcoll_opts.addopt `opt', passthru
        }
        - .n_depvars.Arrdropall
        - if "`numdepvars'" != "" {
            = if "0" != "" {
                - foreach ndep of local numdepvars {
                    - .n_depvars.Arrpush `ndep'
                    = .n_depvars.Arrpush 0
                    - }
                    - }
                - else .n_depvars.Arrpush 1
                - .needequal = "`needequal'"
                = .needequal = "needequal"
                - .wtypes = "`wtypes'"
                = .wtypes = ""
                - .noneedvarlist = "`needvarlist'"
                = .noneedvarlist = "noneedvarlist"
                - .nocons_ignore = "`ignorenocons'"
                = .nocons_ignore = ""



---


> _____ end _eqlist._setu
> p _____


---


> _____ end _eqlist.ne
> w _____
    - .`eqlist'.parse `spec'
    = .__000007.parse (piq_timing_max: piq_timing_max=cb_authors_ext
> vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth, ) ("lnalpha"
> :, freeparm)


---


> _____ begin _eqlist.pars
> e _____
    - version 9.2
    - ._init


---


> _____ begin _eqlist._ini
> t _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""
    - .gl_in = ""
    - .gl_wgt = ""
    - .gl_options = ""

```

```

- .eq_list = {}

> _____ end _eqlist._ini
> t _____
- local MARKOPTLIST `".mark_opts.dumpoptions"`

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `"`optlist`"
= sreturn local optlist `""'
- class exit `"`optlist`"
= class exit `""'

> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""'
- local SMARKOPTLIST `".smark_opts.dumpoptions"`

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `"`optlist`"
= sreturn local optlist `""'
- class exit `"`optlist`"
= class exit `""'

> _____ end _optlist.dumpoption
> s _____
= local SMARKOPTLIST `""'
- local RMCOLLOPTLIST `".rmcoll_opts.dumpoptions"`

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {

```

```

        = forval i = 1/0 {
            local optlist `optlist' `.`options[`i']'
        }
        - local optlist : list uniq optlist
        - sreturn local optlist `""`optlist"""
        = sreturn local optlist `"""
        - class exit `""`optlist"""
        = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
    = local RMCOLLOPTLIST `"""
    - local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""



---


> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.`options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
    = local RMDCOLLOPTLIST `"""
    - _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARKO
> PTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
    = _parse expand EQ GL : 0, gweight common(      COLlinear )
    - if `EQ_n' == 0 & "`noneedvarlist'" == "" {
    = if 2 == 0 & "noneedvarlist" == "" {
        syntax varlist
    }
    - local rebind = `EQ_n' == 1
    = local rebind = 2 == 1
    - if `rebind' {
    = if 0 {
        tokenize `""`0""", parse(",(),[]")"
        local rebind = `""`1""" != "(" & `""`2""" == "("
    }
    - if `rebind' {
    = if 0 {

```

```

        while `:length local 0' {
            gettoken tok 0 : 0, parse(",") bind match(par)
            if "`par'" == "(" {
                gettoken nxt : 0
                local nxt = substr(```nxt''',1,1)
                if inlist(```nxt''', "#", "|") {
                    local ZERO ```ZERO'(`tok')'''
                }
                else {
                    local ZERO ``(`ZERO')(`tok')`0''''
                }
            }
            else if inlist(``tok'", "if", "in", ",") {
                local ZERO ``(`ZERO')(`tok')`0''''
            }
            else if inlist(substr(```tok''',1,1), "#", "|") {
                local ZERO ```ZERO'`tok'''
            }
            else {
                local ZERO ```ZERO'`tok'''
            }
        }
        _parse expand EQ GL : ZERO, gweight common(`MARKOPTLIST` `SMA
> RKOPTLIST` `RMCOLLOPTLIST` `RMDCOLLOPTLIST` COLlinear )
    }
    - forval i = 1/`EQ_n' {
    = forval i = 1/2 {
    - if `i' <= `n_depvars.arrnels' {
    = if 1 <= 1 {
    - local ndep = `n_depvars[`i']'
    = local ndep = 0
    - }
    - .eq_list[`i'] = .eqspec.new, numdepvars(`ndep') `needequal'
> `noneedvarlist' wtypes(`wtypes') `nocons_ignore'
    = .eq_list[1] = .eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()
    -class {
    -instance:
    -      double n_depvars
    -      double needequal
    -      double needvarlist
    -      string wtypes
    -      string name
    -      string depvars

```

```

-      double  hasequal
-      string  indepvars
-      string  other_markvars
-      double  nocons
-      double  nocons_ignore
-      string  offset
-      double  exposure
-      double  freeparm
-      string  if
-      string  in
-      string  wgt
-      string  options
-}



---


> _____ begin _eqspec.ne
> w _____
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL no
> NEEDVARLIST WTYPES(string) IGNORENOCONS ]
- .n_depvars = 1
- if `:list sizeof numdepvars' {
= if 1 {
- .n_depvars = `numdepvars'
= .n_depvars = 0
- }
- .needequal = ("`needequal'" != "")
= .needequal = ("needequal" != "")
- .needvarlist = ("`needvarlist'" == "")
= .needvarlist = ("noneedvarlist" == "")
- .nocons_ignore = ("`ignorenocons'" != "")
= .nocons_ignore = ("" != "")
- .wtypes = "`wtypes'"
= .wtypes = ""



---


> _____ end _eqspec.ne
> w _____
- .eq_list['i'].parse `.eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[1].parse __key(600013851ec0):piq_timing_max: piq_timi
> ng_max=cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo op
> en wlth



---


> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(600013851ec0):piq_timing_max: piq_timi

```

```

> ng_max=cb_authors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo op
> en wlth
> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par) quot
> es
    - if "`par'" != "" {
= if "" != "" {
    local before `"(before)"'
}
- if `"`before'"' == ":" {
= if `"_key(600013851ec0)"' == ":" {
    sreturn local after `"`after'"'
    exit
}
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `""'" != ":" & `":piq_timing_max: piq_timing_max=cb_a
> uthors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth" !
> = "" {
    - gettoken COLON after : after, parse(":") bind match(par) q
> uotes
    - if "`par'" != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if `"`COLON'"' != ":" {
= else if `":":"' != ":" {
    local before `"`before' `COLON'"'
    local COLON
}
- }
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `":":"' != ":" & `":piq_timing_max: piq_timing_max=cb_a
> uthors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth" !
> = "" {
    gettoken COLON after : after, parse(":") bind match(par) q
> uotes
    if "`par'" != "" {
    local before `before' (`COLON')
    local COLON
}

```

```

else if `""`COLON"" != ":" {
    local before `""`before`"`COLON"""
    local COLON
}
}
-
if `""`COLON"" != ":" {
= if `":;" != ":" {
    di as err "" found where ':' expected"
    exit 198
}
-
sreturn local before `""`before"""
= sreturn local before `""`_key(600013851ec0)"""
-
sreturn local after `""`after"""
= sreturn local after `""`piq_timing_max: piq_timing_max=cb_au
> thors_ext vint_late estimated stky_pr_rotemberg stky_pr_calvo open wlth"""

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)`
    = local ol __key(600013851ec0)
    - if `:list sizeof ol' {
    = if 1 {
        - local OPTLIST `""`.`ol`.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/4 {
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant
    - }
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant FREEParm
    - }
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant FREEParm OFFset(passthru)
    - }
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)
    - }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `""`NOCONSTant FREEParm OFFset(passthru)
> u) EXPosure(passthru)"""

```

```

        - class exit `""`optlist"""
        = class exit `""NOCONSTant FREEParm OFFset(passthru) EXPosure
> (passthru)""


---


> _____ end _optlist.dumpoption
> s _____
>         = local OPTLIST `""NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)""
>             - local OPTNAMES `""`ol'.dumpnames"""


---


> _____ begin _optlist.dumpname
> s _____
>             - version 9
>             - forval i = 1/`.names.arrnels' {
>             = forval i = 1/4 {
>                 - local namelist `namelist' `.`names[`i']'
>                 = local namelist noconstant
>                 - }
>                 - local namelist `namelist' `.`names[`i']'
>                 = local namelist noconstant freparm
>                 - }
>                 - local namelist `namelist' `.`names[`i']'
>                 = local namelist noconstant freparm offset
>                 - }
>                 - local namelist `namelist' `.`names[`i']'
>                 = local namelist noconstant freparm offset exposure
>                 - }
>                 - local namelist : list uniq namelist
>                 - sreturn local namelist `""`namelist"""
>                 = sreturn local namelist `""noconstant freparm offset exposu
> re"""
>             - class exit `""`namelist"""
>             = class exit `""noconstant freparm offset exposure"""


---


> _____ end _optlist.dumpname
> s _____
>             = local OPTNAMES `""noconstant freparm offset exposure"""
>             - local NOCONS constant noconstant
>             - if `""`:list NOCONS & OPTNAMES""` == ""` {
>             = if `""noconstant""` == ""` {
>                 local NOCONS noCONSTant
>                 }
>                 - else local NOCONS
>                 - }
>                 - local 0 `""`s(after)"""
>                 = local 0 `""piq_timing_max: piq_timing_max=cb_authors_ext vint

```

```

> _late estimated stky_pr_rotemberg stky_pr_calvo open wlth"
  - if `".wtypes"" != "" {
  = if `"" != "" {
    local wgt "[`wtypes']"
  }
  - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NO
> ONS' *]
  = syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREEParm
> OFFset(passthru) EXPosure(passthru) *]
  - local HOLDIF ```if```
  = local HOLDIF ```'
  - local HOLDIN ```in```
  = local HOLDIN ```'
  - if "`wgt'" != "" & "`weight'" != "" {
  = if "" != "" & "" != "" {
    local HOLDWGT `"[`weight``exp']``"
  }
  - gettok NAME REST : anything, parse(":")
  - if trim(`NAME') == ":" {
  = if trim("piq_timing_max") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
  }
  - if `:list sizeof REST' {
  = if 8 {
    - if strpos(`NAME', ":") {
    = if strpos(`piq_timing_max', ":") {
      capture _msparse `NAME'
      if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
      }
    }
    - else {
      - ._confirm_eqname `NAME'
    = ._confirm_eqname piq_timing_max

```

```

> _____ begin _eqspec._confirm_eqnam
> e _____
  - version 9.2
  - capture confirm number `0'
  = capture confirm number piq_timing_max
  - if (! c(rc)) exit
  - local hasdot = strpos(``0'', ".")
  = local hasdot = strpos(`piq_timing_max', ".")
  - if `hasdot' {

```

```

= if 0 {
    syntax varname(ts)
    exit
}
- capture syntax name(id="equation name")
- if (! c(rc)) exit


---


> _____ end _eqspec._confirm_eqnam
> e _____
    - }
    - local NAME : list retok NAME
    - gettoken COLON anything : REST, parse(":")
    - }
    - else {
        local NAME
    }
    - gettoken DEPVARS REST : anything, parse("=".) bind
    - if "`DEPVARS'" == "=" {
= if "piq_timing_max" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if (`:length local DEPVARS' == 0 & `.n_depdevs') {
= if (14 == 0 & 0) {
        di as err "nothing found where depvar expected"
        exit 198
    }
    - if `"`REST`"' == "" {
        = if `"`=cb_authors_ext vint_late estimated stky_pr_rotemberg s
> tky_pr_calvo open wlth`' == "" {
            if 0`needequal' {
                if `needvarlist' | (`:length local DEPVARS' != 0 & `.n_depdevs'
> ars') {
                    di as err "equal sign required to separate depvars from inde
> pvars"
                    exit 198
                }
            }
            local DEPVARS
            local n_deps : list sizeof anything
            if `n_deps' != 0 | `needvarlist' {
                if `n_deps' < `n_depdevs' {
                    error 102
                }
                forval j = 1/`.n_depdevs' {
                    gettoken YY anything : anything

```

```

        local DEPVARS `DEPVARS' `YY'
    }
    local INDEPVARS : list retok anything
}
local hasequal 0
}
- else {
- gettoken EQ INDEPVARS : REST, parse("=") bind
- local hasequal 1
-
- if `:list sizeof DEPVARS' {
= if 1 {
- _fv_check_depvar `DEPVARS'
= _fv_check_depvar piq_timing_max
- tsunab DEPVARS : `DEPVARS'
= tsunab DEPVARS : piq_timing_max


---


> _____ begin tsuna
> b _____
- version 6
- gettoken user 0: 0, parse(":")
- gettoken colon 0: 0, parse(":")
- if `"`colon`" != ":" { error 198 }
= if `":` != ":" { error 198 }
- syntax [varlist(ts default=empty)] [, MIN(integer 1) MAX(i
> nteger 32000) NAME(string)]
- c_local `user' `varlist'
= c_local DEPVARS piq_timing_max
- local n : word count `varlist'
= local n : word count piq_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }


---


> _____ end tsuna
> b _____
- }
- if `:list sizeof INDEPVARS' {
= if 7 {
- fvunab INDEPVARS : `INDEPVARS'
= fvunab INDEPVARS : cb_authors_ext vint_late estimated stky_p
> r_rotemberg stky_pr_calvo open wlth


---


> _____ begin fvuna
> b _____
- version 11
- _on_colon_parse `0'

```

```

= _onColonParse INDEPVARS : cb_authors_ext vint_late estim
> ated stky_pr_rotemberg stky_pr_calvo open wlth


---


> _____ begin _onColonParse
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par) qu
> otes
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"`
    }
    - if `"`before'"' == ":" {
    = if `"`INDEPVARS'"' == ":" {
        sreturn local after `"`after'"'
        exit
    }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `""'" != ":" & `":` cb_authors_ext vint_late estimat
> ed stky_pr_rotemberg stky_pr_calvo open wlth"'" != "" {
    - gettoken COLON after : after, parse(":") bind match(par)
> quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `before` (`COLON')
        local COLON
    }
    - else if `"`COLON'"' != ":" {
    = else if `":'" != ":" {
        local before `"`before` `COLON'"'
        local COLON
    }
    - }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `":'" != ":" & `"` cb_authors_ext vint_late estimat
> ed stky_pr_rotemberg stky_pr_calvo open wlth"'" != "" {
    gettoken COLON after : after, parse(":") bind match(par)
> quotes
    if "`par'" != "" {
        local before `before` (`COLON')
        local COLON
    }
    else if `"`COLON'"' != ":" {
        local before `"`before` `COLON'"'

```

```

        local COLON
    }
}
-
- if `"`COLON`"" != ":" {
= if `":`" != ":" {
    di as err `'' found where `:' expected"
    exit 198
}
-
- sreturn local before `"`before`""
= sreturn local before `"`INDEPVARS `"
-
- sreturn local after `"`after`""
= sreturn local after `"` cb_authors_ext vint_late estimate
> d stky_pr_rotemberg stky_pr_calvo open wlth"


---


> _____ end _on_colon_pars
> e _____
    - local 0 `"`s(before)`""
= local 0 `"`INDEPVARS `"
-
syntax name(id="macro name" name=user)
-
local 0 `"`s(after)`""
= local 0 `"` cb_authors_ext vint_late estimated stky_pr_rote
> mberg stky_pr_calvo open wlth"
    - syntax [varlist(ts fv default=none)] [, MIN(integer 1) MAX
> (integer 32000) NAME(string) ]
    - c_local `user' `varlist'
= c_local INDEPVARS cb_authors_ext vint_late estimated stky_
> pr_rotemberg stky_pr_calvo open wlth
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
= if (1 <= 7 & 7 <= 32000) exit


---


> _____ end fvuna
> b _____
    -
- if inlist("noconstant", "`noconstant'", "`constant'") {
= if inlist("noconstant", "", "") {
    if `INDEPVARS' == "" & ! `nocons_ignore' {
        di as err "independent variables are required when option no
> constant is specified"
        exit 102
    }
    if `NOCONS' != "" {
        local options `options' noconstant
    }
    local NOCONS 1
}

```

```

- else local NOCONS 0
- if `"`offset`"exposure`" != "" {
= if `""` != "" {
    ._check_offset, `offset` `exposure'
local OFFSET ``s(offset)`"
local EXPOSURE = ("`exposure`" != "")"
local OTHER ``s(offset)`"
}
- else local EXPOSURE 0
- local FREEPARM = `"`freeparm`" != ""
= local FREEPARM = `""` != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS`"SPACE`"OPTNAME`"
    local SPACE " "
}
- }
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS`"SPACE`"OPTNAME`"
    local SPACE " "
}
- }
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS`"SPACE`"OPTNAME`"
    local SPACE " "
}
- }
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS`"SPACE`"OPTNAME`"
    local SPACE " "
}
- }
- if `"`options`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS`"SPACE`"options`"
}
- .name = `"`NAME`"
= .name = `piq_timing_max`"
- .depvars = `"`DEPVARS`"
= .depvars = `piq_timing_max`"

```

```

- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = `":list retok INDEPVARS"'
= .indepvars = `cb_authors_ext vint_late estimated stky_pr_ro
> temberg stky_pr_calvo open wlth"
- .other_markvars = `":list retok OTHER"'
= .other_markvars = `""'
- .nocons = `NOCONS'
= .nocons = 0
- .if = `":HOLDIF"'
= .if = `""'
- .in = `":HOLDIN"'
= .in = `""'
- .wgt = `":HOLDWGT"'
= .wgt = `""'
- .offset = `":OFFSET"'
= .offset = `""'
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 0
- .options = `":OPTIONS"'
= .options = `""'



---


> _____ end _eqspec.pars
> e _____
- }
- if `i' <= `.n_depvars.arrnels' {
= if 2 <= 1 {
  local ndep = `.n_depvars[`i']'
}
- .eq_list[`i'] = ._eqspec.new, numdepvars(`ndep') `.needequal'
> `.noneedvarlist' wtypes(`.wtypes') `.nocons_ignore'
= .eq_list[2] = ._eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()



---


> _____ begin _eqspec.ne
> w _____
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL no
> NEEDVARLIST WTYPES(string) IGNORENOCONS ]
- .n_depvars = 1
- if `:list sizeof numdepvars' {
= if 1 {
- .n_depvars = `numdepvars'
= .n_depvars = 0

```

```

    - }
    - .needequal = ("`needequal'" != "")
    = .needequal = ("needequal" != "")
    - .needvarlist = ("`needvarlist'" == "")
    = .needvarlist = ("noneedvarlist" == "")
    - .nocons_ignore = ("`ignorerenocons'" != "")
    = .nocons_ignore = ("" != "")
    - .wtypes = "`wtypes'"
    = .wtypes = ""



---


> _____ end _eqspec.ne
> w _____
    - .eq_list[`i'].parse `.eq_opts_allowed.objkey':`EQ_`i''
    = .eq_list[2].parse __key(600013851ec0):"lnalpha":, freeparm



---


> _____ begin _eqspec.pars
> e _____
    - version 9.2
    - _onColon_parse `0'
    = _onColon_parse __key(600013851ec0):"lnalpha":, freeparm



---


> _____ begin _onColon_pars
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par) quot

> es
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"'"
        }
    - if `"`before'"' == ":" {
    = if `__key(600013851ec0)"'" == ":" {
        sreturn local after `"`after'"'
        exit
        }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `""'" != ":" & `":`lnalpha":, freeparm"" != "" {
        - gettoken COLON after : after, parse(":") bind match(par) q

> uotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
        }

```

```

- else if `"\`COLON`"" != ":" {
= else if `":`" != ":" {
    local before `"\`before` `COLON`"
    local COLON
}
-
- while `"\`COLON`"" != ":" & `"\`after`"" != "" {
= while `":`" != ":" & `"\`lnalpha`:", freeparm`" != "" {
    gettoken COLON after : after, parse(":") bind match(par) q
> uotes
    if `"\`par`"" != "" {
        local before `"\`before`(`COLON`)"
        local COLON
    }
    else if `"\`COLON`"" != ":" {
        local before `"\`before` `COLON`"
        local COLON
    }
}
-
- if `"\`COLON`"" != ":" {
= if `":`" != ":" {
    di as err `"\` found where `":` expected"
    exit 198
}
-
- sreturn local before `"\`before`"
= sreturn local before `"\`_key(600013851ec0)`"
-
- sreturn local after `"\`after`"
= sreturn local after `"\`lnalpha`:", freeparm`"

```

```

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)`
= local ol __key(600013851ec0)
    - if `:list sizeof ol` {
= if 1 {
    - local OPTLIST `"\`.\`ol`.dumpoptions`"

```

```

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.\`options.arrnels` {
= forval i = 1/4 {
    - local optlist `optlist` `.\`options[`i`]'
= local optlist NOCONSTANT
    -
- local optlist `optlist` `.\`options[`i`]'

```

```

= local optlist NOCONSTant FREEParm
- }
- local optlist `optlist' `options[`i']'
= local optlist NOCONSTant FREEParm OFFset(passthru)
- }
- local optlist `optlist' `options[`i']'
= local optlist NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)
- }
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `""NOCONSTant FREEParm OFFset(passthru
> u) EXPosure(passthru)"
- class exit `""`optlist"""
= class exit `""NOCONSTant FREEParm OFFset(passthru) EXPosure
> (passthru)"
_____
> _____ end _optlist.dumpoption
> s _____
= local OPTLIST `""NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)"
- local OPTNAMES `""`ol'.dumpnames"""
_____
> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`.names.arrnels' {
= forval i = 1/4 {
- local namelist `namelist' `names[`i']'
= local namelist noconstant
- }
- local namelist `namelist' `names[`i']'
= local namelist noconstant freparm
- }
- local namelist `namelist' `names[`i']'
= local namelist noconstant freparm offset
- }
- local namelist `namelist' `names[`i']'
= local namelist noconstant freparm offset exposure
- }
- local namelist : list uniq namelist
- sreturn local namelist `""`namelist"""
= sreturn local namelist `""noconstant freparm offset exposu
> re"
- class exit `""`namelist"""
= class exit `""noconstant freparm offset exposure"""

```

```
> _____ end _optlist.dumpname
> s _____
= local OPTNAMES `"noconstant freparm offset exposure"`
- local NOCONS constant noconstant
- if `":list NOCONS & OPTNAMES`" == "" {
= if `"noconstant`" == "" {
    local NOCONS noCONSTant
}
- else local NOCONS
}
- local 0 `"`s(after)`"`
= local 0 `""lnalpha":, freparm"`
- if `".wtypes`" != "" {
= if `""` != "" {
    local wgt "[`wtypes']"
}
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NO
> ONS` *]
= syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREEParm
> OFFset(passthru) EXPosure(passthru) *]
- local HOLDIF `"`if`"`
= local HOLDIF `""`
- local HOLDIN `"`in`"`
= local HOLDIN `""`
- if ``wgt`" != "" & ``weight`" != "" {
= if `""` != "" & `""` != "" {
    local HOLDWGT `"[`weight`exp']"`
}
- gettok NAME REST : anything, parse(":")
- if trim(`NAME`) == ":" {
= if trim(`lnalpha`) == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST` {
= if 1 {
- if strpos(`NAME`, ":") {
= if strpos(`lnalpha`, ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
```

```

- ._confirm_eqname `NAME'
= ._confirm_eqname lnalpha


---


> _____ begin _eqspec._confirm_eqnam
> e _____
    - version 9.2
    - capture confirm number `0'
    = capture confirm number lnalpha
    - if (! c(rc)) exit
    - local hasdot = strpos(```0''', ".")
    = local hasdot = strpos(``lnalpha'', ".")
    - if `hasdot' {
    = if 0 {
        syntax varname(ts)
        exit
    }
    - capture syntax name(id="equation name")
    - if (! c(rc)) exit


---


> _____ end _eqspec._confirm_eqnam
> e _____
    - }
    - local NAME : list retok NAME
    - gettoken COLON anything : REST, parse(":")
    - }
    - else {
        local NAME
    }
    - gettoken DEPVARS REST : anything, parse("=") bind
    - if ``DEPVARS'' == "=" {
    = if "" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if (`:length local DEPVARS' == 0 & `.n_depdevs') {
    = if (0 == 0 & 0) {
        di as err "nothing found where depvar expected"
        exit 198
    }
    - if ``REST'' == "" {
    = if `''' == "" {
        - if 0` .needequal' {
        = if 01 {
            - if ` .needvarlist' | (:length local DEPVARS' != 0 & ` .n_depv
> ars') {
                = if 0 | (0 != 0 & 0) {

```

```

        di as err "equal sign required to separate depvars from inde
> pvars"
        exit 198
    }
}
-
local DEPVARSLIST
local n_deps : list sizeof anything
if `n_deps' != 0 | `.`needvarlist' {
    if 0 != 0 | 0 {
        if `n_deps' < `.`n_depvars' {
            error 102
        }
        forval j = 1/`.`n_depvars' {
            gettoken YY anything : anything
            local DEPVARSLIST `DEPVARSLIST' `YY'
        }
        local INDEPVARS : list retok anything
    }
}
local hasequal 0
-
else {
    gettoken EQ INDEPVARS : REST, parse("=") bind
    local hasequal 1
}
if `:list sizeof DEPVARSLIST' {
    if 0 {
        _fv_check_depvar `DEPVARSLIST'
        tsunab DEPVARSLIST : `DEPVARSLIST'
    }
}
if `:list sizeof INDEPVARS' {
    if 0 {
        ffunab INDEPVARS : `INDEPVARS'
    }
}
if inlist("noconstant", "`noconstant'", "`constant'") {
    if inlist("noconstant", "", "") {
        if "`INDEPVARS'" == "" & !`.`nocons_ignore' {
            di as err "independent variables are required when option no
> constant is specified"
            exit 102
        }
        if "`NOCONS'" != "" {
            local options `options' noconstant
        }
        local NOCONS 1
    }
}
else local NOCONS 0

```

```

- if ``offset`` exposure''' != "" {
= if `""' != "" {
    .check_offset, `offset` `exposure'
    local OFFSET ``s(offset)''
    local EXPOSURE = ("`exposure'" != "")"
    local OTHER `s(offset)'
}
- else local EXPOSURE 0
- local FREEPARM = ``freeparm''' != ""
= local FREEPARM = "freeparm'" != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if ``OPTNAME'''' != "" {
= if `""' != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ``OPTNAME'''' != "" {
= if "freeparm'" != "" {
- local OPTIONS ``OPTIONS``SPACE``OPTNAME'''''
= local OPTIONS ``freeparm''
- local SPACE " "
}
- }
- if ``OPTNAME'''' != "" {
= if `""' != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ``OPTNAME'''' != "" {
= if `""' != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ``options'''' != "" {
= if `""' != "" {
    local OPTIONS ``OPTIONS``SPACE``options'''''
}
- .name = ``NAME'''''
= .name = "lnalpha"
- .depvars = ``DEPVARS'''''
= .depvars = """"

```

```

- .hasequal = `hasequal'
= .hasequal = 0
- .indepvars = `":list retok INDEPVARS"'
= .indepvars = `""'
- .other_markvars = `":list retok OTHER"'
= .other_markvars = `""'
- .nocons = `NOCONS'
= .nocons = 0
- .if = `":HOLDIF"'
= .if = `""'
- .in = `":HOLDIN"'
= .in = `""'
- .wgt = `":HOLDWGT"'
= .wgt = `""'
- .offset = `":OFFSET"'
= .offset = `""'
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 1
- .options = `":OPTIONS"'
= .options = `freeparm'



---


> _____ end _eqspec.pars
> e _____
- }
- local MARKOPTLIST `".mark_opts.dumpoptions"'



---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `":optlist"'
= sreturn local optlist `""'
- class exit `":optlist"'
= class exit `""'



---


> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""'
- local MARKOPTNAMES `".mark_opts.dumpnames"'



---



```

```

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`names.arnels' {
    = forval i = 1/0 {
        local namelist `namelist' `names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""

> _____ end _optlist.dumpname
> s _____
    = local MARKOPTNAMES `"""
    - local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "(str
> ing asis)", all
    - local SMARKOPTLIST `""`smark_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`options.arnels' {
    = forval i = 1/0 {
        local optlist `optlist' `options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

> _____ end _optlist.dumpoption
> s _____
    = local SMARKOPTLIST `"""
    - local SMARKOPTNAMES `""`smark_opts.dumpnames"""

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`names.arnels' {
    = forval i = 1/0 {
        local namelist `namelist' `names[`i']'
    }
    - local namelist : list uniq namelist

```

```

    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""

> _____ end _optlist.dumpname
> s _____
    = local SMARKOPTNAMES `"""
    - local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)" "(s
> tring asis)", all
    - local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

> _____ end _optlist.dumpoption
> s _____
    = local RMCOLLOPTLIST `"""
    - local RMCOLLOPTNAMES `""`.rmcoll_opts.dumpnames"""

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""

> _____ end _optlist.dumpname
> s _____
    = local RMCOLLOPTNAMES `"""

```

```

        - local OPTLIST2 : subinstr local RMDCOLLOPTLIST "(passthru)" "(s
> tring asis)", all
        - local RMDCOLLOPTLIST `"\`rmcoll_opts.dumpoptions""'


---


> _____ begin _optlist.dumpoption
> s _____
        - version 9
        - forval i = 1/\`options.arrnels' {
        = forval i = 1/0 {
            local optlist `optlist' `\`options[`i']'
        }
        - local optlist : list uniq optlist
        - sreturn local optlist `"\`optlist""'
        = sreturn local optlist `""'
        - class exit `"\`optlist""'
        = class exit `""'


---


> _____ end _optlist.dumpoption
> s _____
        = local RMDCOLLOPTLIST `""'
        - local RMDCOLLOPTNAMES `"\`rmcoll_opts.dumpnames""'


---


> _____ begin _optlist.dumpname
> s _____
        - version 9
        - forval i = 1/\`names.arrnels' {
        = forval i = 1/0 {
            local namelist `namelist' `\`names[`i']'
        }
        - local namelist : list uniq namelist
        - sreturn local namelist `"\`namelist""'
        = sreturn local namelist `""'
        - class exit `"\`namelist""'
        = class exit `""'


---


> _____ end _optlist.dumpname
> s _____
        = local RMDCOLLOPTNAMES `""'
        - local OPTLIST3 : subinstr local RMDCOLLOPTLIST "(passthru)" "(s
> string asis)", all
        - local 0 `", `GL_op""'
        = local 0 `", ""
        - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLline
> ar noCONSTant *
        = syntax [,     COLlinear noCONSTant * ]
        - local GL_op `"\`options""'

```

```

= local GL_op `"""
- if `"`collinear`"" != "" {
= if `""` != "" {
    local GL_op `"`GL_op`" `collinear`"
    .collinear = `collinear`"
}
- if `"`constant`"" != "" {
= if `""` != "" {
    local GL_op `"`GL_op`" `constant`"
    .nocons = `constant`"
}
- local I 0
- foreach OPT of local MARKOPTNAMES {
    if `:list sizeof `OPT` {
        .mark_list[`++I`] = .eqspec.new, numdep(0) wtypes(`.wtypes`)
        .mark_list[`I`].parse "" : ``OPT``
        .mark_name.Arrpush ``OPT``
    }
}
- local I 0
- foreach OPT of local SMARKOPTNAMES {
    if `:list sizeof `OPT` {
        .smark_list[`++I`] = .eqspec.new, numdep(0) wtypes(`.wtypes`)
        .smark_list[`I`].parse "" : ``OPT``
        .smark_name.Arrpush ``OPT``
    }
}
- local I 0
- foreach OPT of local RMCOLLOPTNAMES {
    if `:list sizeof `OPT` {
        .rmcoll_list[`++I`] = .eqspec.new, numdep(0) wtypes(`.wtypes`
> )
        .rmcoll_list[`I`].parse "" : ``OPT``
        .rmcoll_name.Arrpush ``OPT``
    }
}
- local I 0
- foreach OPT of local RMDCOLLOPTNAMES {
    if `:list sizeof `OPT` {
        .rmdcoll_list[`++I`] = .eqspec.new, wtypes(`.wtypes`)
        .rmdcoll_list[`I`].parse "" : ``OPT``
        .rmdcoll_name.Arrpush ``OPT``
    }
}
- .n_eq = `EQ_n'
= .n_eq = 2

```

```

- .gl_if = `"\`GL_if\""
= .gl_if = `"""
- .gl_in = `"\`GL_in\""
= .gl_in = `"""
- .gl_wgt = `"\`GL_wt\""
= .gl_wgt = `"""
- .gl_options = `"\`list retok GL_op\""
= .gl_options = `"""

> _____ end _eqlist.pars
> e _____
- if "`subpop'" != "" & "`missing'" == "" {
= if "" != "" & "missing" == "" {
    if `interactive' {
        SetGlobalVar ML_samp : _MLtu
    }
    else {
        global ML_samp : tempvar
        if `"\`moptobj'" != "" {
            global ML_samp `moptobj'$ML_samp
        }
    }
    tempvar markuse
    _svy_setup $ML_sample $ML_samp, svy subpop(`subpop')
    quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000006
- if "`collinear'" == "" {
= if "collinear" == "" {
    .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if "`missing'" == "" {
= else if "missing" == "" {
    .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000006" != "__000006" {
    `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
    drop `markuse'
}
- local eq_n = `.`eqlist'.eq count'

> _____ begin _eqlist.e
> q _____
- version 9.2

```

```

    - args item idx
    - if "`item'" == "count" {
    = if "count" == "count" {
    - sreturn local value `".n_eq`"
    = sreturn local value `"2"`
    - class exit `"`s(value)`"`
    = class exit `"2"`



---


> _____ end _eqlist.e
> q _____
= local eq_n = 2
- global ML_n : copy local eq_n
- global ML_dim = `.`eqlist'.dim'



---


> _____ begin _eqlist.di
> m _____
- version 9.2
- syntax
- local neq = `.`eq count'



---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "count" == "count" {
- sreturn local value `".n_eq`"
= sreturn local value `"2"`
- class exit `"`s(value)`"`
= class exit `"2"`



---


> _____ end _eqlist.e
> q _____
= local neq = 2
- forval i = 1/`neq' {
= forval i = 1/2 {
- local xvars `.`eq indepvars `i`"



---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "indepvars" == "count" {
    sreturn local value `".n_eq`"
    class exit `"`s(value)`"`

```

```

        }
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPposure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item indepvars


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""` `item`"""
= local value `""` cb_authors_ext vint_late estimated stky_pr_r
> otemberg stky_pr_calvo open wlth"""
- sreturn local value `""` value`"""
= sreturn local value `""` cb_authors_ext vint_late estimated s
> tky_pr_rotemberg stky_pr_calvo open wlth"""
- class exit `""` value`"""
= class exit `""` cb_authors_ext vint_late estimated stky_pr_ro
> temberg stky_pr_calvo open wlth"""


---


> _____ end _eqspec.ite

```

```

> m _____
    - class exit `""`s(value)`"""
    = class exit `""`cb_authors_ext vint_late estimated stky_pr_rote
> mberg stky_pr_calvo open wlth"""
_____
> _____ end _eqlist.e
> q _____
    = local xvarsi `""`cb_authors_ext vint_late estimated stky_pr_rote
> mberg stky_pr_calvo open wlth"""
    - local noconsi `""`.eq nocons `i"""
_____
> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if `item` == "count" {
    = if "nocons" == "count" {
        sreturn local value `""`.n_eq"""
        class exit `""`s(value)`"""
    }
    - else if 0 < `idx` & `idx` <= `n_eq` {
    = else if 0 < 1 & 1 <= 2 {
        - .eq_list[`idx`].item `item`
        = .eq_list[1].item nocons
_____
> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, nocons
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other` {
    = if 0 {
        local other other_markvars
    }
    - local item `name` `depvars` `indepvars` `if` `in` `wgt'
> `other` `nocons` `offset` `exposure` `freeparm` `options`
    = local item      nocons
    - if `:list sizeof item` != 1 {

```

```

= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`item"""
    = local value `""0"""
    - sreturn local value `""`value"""
    = sreturn local value `""0"""
    - class exit `""`value"""
    = class exit `""0"""



---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `""0"""



---


> _____ end _eqlist.e
> q _____
    = local noconsi `""0"""
    - local dim = `dim' + `:list sizeof xvars'
    = local dim =  + 7
    - if "`noconsi'" == "0" {
    = if "0" == "0" {
        - local ++dim
        - }
        - }
    - local xvars `""`eq indepvars `i"""



---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "indepvars" == "count" {
        sreturn local value `""`n_eq"""
        class exit `""`s(value)"""
    }
    - else if 0 < `idx' & `idx' <= `n_eq' {
    = else if 0 < 2 & 2 <= 2 {
        - .eq_list[`idx'].item `item'
    = .eq_list[2].item indepvars

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, indepvars
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPposure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
    = local item indepvars
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item indepvars
_____
> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`."`item`"""
    = local value `"""
    - sreturn local value `""`value`"""
    = sreturn local value `"""
    - class exit `""`value`"""
    = class exit `"""
_____
> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)`"""
    = class exit `"""
_____
> _____ end _eqlist.e
> q _____
    = local xvars `"""
    - local noconsi `""`.eq nocons `i`"""
_____

```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "nocons" == "count" {
        sreturn local value `".n_eq`"
        class exit `s(value)`"
    }
    - else if 0 < `idx' & `idx' <= `.n_eq' {
    = else if 0 < 2 & 2 <= 2 {
        - .eq_list[`idx'].item `item'
        = .eq_list[2].item nocons
    }

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, nocons

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freparm' `options'
    = local item      nocons
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item nocons

> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `.` `item`"
    = local value `0`"
    - sreturn local value `value`"

```

```

        = sreturn local value `"0"'
        - class exit `""`value"""
        = class exit `"0"'



---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `"0"'



---


> _____ end _eqlist.e
> q _____
    = local noconsi `"0"'
    - local dim = `dim' + `:list sizeof xvars'
    = local dim = 8 + 0
    - if "`noconsi'" == "0" {
    = if "0" == "0" {
        - local ++dim
        - }
        - }
    - sreturn local value `""`dim"""
    = sreturn local value `"9"'
    - class exit `""`s(value)"""
    = class exit `"9"'



---


> _____ end _eqlist.di
> m _____
    = global ML_dim = 9
    - forval i = 1/`eq_n' {
    = forval i = 1/2 {
        - local depvars `.``eqlist'.eq depvars `i''



---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "depvars" == "count" {
        sreturn local value `""`.n_eq"""
        class exit `""`s(value)"""
    }
    - else if 0 < `idx' & `idx' <= `.`.n_eq' {
    = else if 0 < 1 & 1 <= 2 {
        - .eq_list[`idx'].item `item'
    = .eq_list[1].item depvars



---


> _____ begin _eqspec.ite

```

```

> m
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, depvars


---


> _____ begin _eqspec._check_eq_item_nam
> e
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars]
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther` `nocons` `offset` `exposure` `freeparm` `options'
    = local item depvars
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item depvars


---


> _____ end _eqspec._check_eq_item_nam
> e
    - local value `""`.'item'"""
    = local value `piq_timing_max"""
    - sreturn local value `""`value"""
    = sreturn local value `piq_timing_max"""
    - class exit `""`value"""
    = class exit `piq_timing_max"""


---


> _____ end _eqspec.ite
> m
    - class exit `""`s(value)"""
    = class exit `piq_timing_max"""


---


> _____ end _eqlist.e
> q
    = local depvars piq_timing_max
    - local eq `.`.`eqlist'.eq name `i'


---


> _____ begin _eqlist.e

```

```

> q -----
  - version 9.2
  - args item idx
  - if "`item'" == "count" {
= if "name" == "count" {
    sreturn local value `".n_eq`"
    class exit `"(value)`"
}
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item name
----- begin _eqspec.ite

> m -----
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, name
----- begin _eqspec._check_eq_item_nam

> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
  - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item name
  - if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
  - c_local `c_item' `item'
= c_local item name
----- end _eqspec._check_eq_item_nam

> e -----
  - local value `".`item`"
= local value `"(piq_timing_max)`"
  - sreturn local value `"(value)`"
= sreturn local value `"(piq_timing_max)`"

```

```

- class exit `""`value"""
= class exit `"`"
```

```
> _____ end _eqspec.ite
```

```
> m _____
```

```
- class exit `""`s(value)"""
= class exit `"`"
```

```
> _____ end _eqlist.e
```

```
> q _____
```

```
= local eq piq_timing_max
- if !`:length local eq' {
= if !14 {
    local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
    di as err "equation `eq' multiply defined"
    exit 110
}
- local eqnames `eqnames' `eq'
= local eqnames piq_timing_max
- fvexpand `.`.eqlist'.eq indepvars `i'' if $ML_samp
```

```
> _____ begin _eqlist.e
```

```
> q _____
```

```
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "indepvars" == "count" {
    sreturn local value `".n_eq"`
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars
```

```
> _____ begin _eqspec.ite
```

```
> m _____
```

```
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars
```

```
> _____ begin _eqspec._check_eq_item_name
```

```

> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item indepvars
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item indepvars
_____
> _____ end _eqspec._check_eq_item_name
> e _____
    - local value `""`.'item'"""
    = local value `cb_authors_ext vint_late estimated stky_pr_rot
> emberg stky_pr_calvo open wlth"
    - sreturn local value `""`value"""
    = sreturn local value `cb_authors_ext vint_late estimated stk
> y_pr_rotemberg stky_pr_calvo open wlth"
    - class exit `""`value"""
    = class exit `cb_authors_ext vint_late estimated stky_pr_rote
> mberg stky_pr_calvo open wlth"
_____
> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `cb_authors_ext vint_late estimated stky_pr_rotemb
> erg stky_pr_calvo open wlth"
_____
> _____ end _eqlist.e
> q _____
    = fvexpand cb_authors_ext vint_late estimated stky_pr_rotemberg st
> ky_pr_calvo open wlth if __000006
    - if "`r(tsops)' == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)"""

```

```

        = local eq_rhs1 `cb_authors_ext vint_late estimated stky_pr_rotem
> berg stky_pr_calvo open wlth"
    - local eq_nocons`i' `.`eqlist'.eq nocons `i'


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "nocons" == "count" {
        sreturn local value `".n_eq`"
        class exit `s(value)`"
    }
    - else if 0 < `idx' & `idx' <= `n_eq' {
    = else if 0 < 1 & 1 <= 2 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item nocons


---


> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, nocons


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item      nocons
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item nocons


---


> _____ end _eqspec._check_eq_item_nam

```

```

> e -----
    - local value `""`.'item'"""
    = local value `"0"""
    - sreturn local value `""`value'"""
    = sreturn local value `"0"""
    - class exit `""`value'"""
    = class exit `"0"""

-----
> ----- end _eqspec.ite
> m -----
    - class exit `""`s(value)'"""
    = class exit `"0"""

-----
> ----- end _eqlist.e
> q -----
    = local eq_nocons1 0
    - local eq_offset`i` `.`eqlist'.eq offset `i"""

-----
> ----- begin _eqlist.e
> q -----
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "offset" == "count" {
        sreturn local value `""`n_eq'"""
        class exit `""`s(value)'"""
    }
    - else if 0 < `idx' & `idx' <= `n_eq' {
    = else if 0 < 1 & 1 <= 2 {
        .eq_list[`idx'].item `item'
        = .eq_list[1].item offset

-----
> ----- begin _eqspec.ite
> m -----
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, offset

-----
> ----- begin _eqspec._check_eq_item_nam
> e -----
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {

```

```

= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item          offset
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item offset


---


> _____ end _eqspec._check_eq_item_name
> e _____
    - local value `""`.'item'"""
= local value `"""
- sreturn local value `""`value"""
= sreturn local value `"""
- class exit `""`value"""
= class exit `"""


---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
= class exit `"""


---


> _____ end _eqlist.e
> q _____
    = local eq_offset1
    - local eq_exposure`i' `.`eqlist'.eq exposure `i''


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
= if "exposure" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item exposure

```

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, exposure
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item           exposure
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item exposure
_____
> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `"\`item`"'
    = local value `"\0"'
    - sreturn local value `"\`value`"'
    = sreturn local value `"\0"'
    - class exit `"\`value`"'
    = class exit `"\0"'
_____
> _____ end _eqspec.ite
> m _____
    - class exit `"\`s(value)`"'
    = class exit `"\0"'
_____
> _____ end _eqlist.e
> q _____
    = local eq_exposure1 0
    - local eq_freeparm`i' `.\`eqlist'.eq freeparm `i'
_____

```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "freeparm" == "count" {
        sreturn local value ```n_eq'''
        class exit ```s(value)''''
    }
    - else if 0 < `idx' & `idx' <= `n_eq' {
    = else if 0 < 1 & 1 <= 2 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item freeparm
    _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, freeparm
    _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item           freeparm
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item freeparm
    _____ end _eqspec._check_eq_item_nam
> e _____
    - local value ```item''''
    = local value ``0'''
    - sreturn local value ```value''''

```

```

        = sreturn local value `"0"
        - class exit `"`value`""
        = class exit `"0"

> _____ end _eqspec.ite
> m _____
    - class exit `"`s(value)`""
    = class exit `"0"

> _____ end _eqlist.e
> q _____
    = local eq_freeparm1 0
    - local lhs `lhs` `depvars'
    = local lhs  piq_timing_max
    - local eq_names `eq_names` `eq'
    = local eq_names  piq_timing_max
    - local nxvars :list sizeof eq_rhs`i'
    = local nxvars :list sizeof eq_rhs1
    - local TMP : copy local eq_rhs`i'
    = local TMP : copy local eq_rhs1
    - forval j = 1/`nxvars' {
    = forval j = 1/7 {
        - gettoken xvar TMP : TMP
        - local colna `"`colna` `eq':`xvar`""
        = local colna `"` piq_timing_max:cb_authors_ext`""
        - }
        - gettoken xvar TMP : TMP
        - local colna `"`colna` `eq':`xvar`""
        = local colna `"` piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"`colna` `eq':`xvar`""
    = local colna `"` piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late piq_timing_max:estimated"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"`colna` `eq':`xvar`""
    = local colna `"` piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"`colna` `eq':`xvar`""
    = local colna `"` piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timing_m
> ax:stky_pr_calvo"

```

```

    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar`"
    = local colna `"\`piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timing_m
> ax:stky_pr_calvo piq_timing_max:open"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar`"
    = local colna `"\`piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timing_m
> ax:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth"
    - }
    - if `eq_freeparm`i'' {
    = if 0 {
        if `nxvars' {
            di as err "{it:xvars} not allowed with option {bf:freeparm}"
            exit 198
        }
        if strpos(`"\`eq`", ":")) {
            local colna `"\`colna' /`eq`"
        }
        else {
            local colna `"\`colna' /:`eq`"
        }
    }
    - else if !`eq_nocons`i'' {
    = else if !0 {
        - local colna `"\`colna' `eq':_cons"
        = local colna `"\`piq_timing_max:cb_authors_ext piq_timing_max:vint
> _late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timing_m
> ax:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timing_max:_con
> s"
        - }
        - if "`moptobj'" != "" {
        = if "" != "" {
            if "`eq_offset`i'" != "" {
                if usubstr("`eq_offset`i'", 1, 2) == "__" {
                    capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
                    local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
                }
            }
        }
    }
    - }
    - local depvars `.``eqlist'.eq depvars `i'

```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "depvars" == "count" {
        sreturn local value `".n_eq"
        class exit `s(value)'
    }
    - else if 0 < `idx' & `idx' <= `.n_eq' {
    = else if 0 < 2 & 2 <= 2 {
    - .eq_list[`idx'].item `item'
    = .eq_list[2].item depvars
    _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, depvars
    _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item depvars
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item depvars
    _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `.` `item'
    = local value `'
    - sreturn local value `value'

```

```

        = sreturn local value `"""
        - class exit `""`value"""
        = class exit `"""

> _____ end _eqspec.ite
> m _____
        - class exit `""`s(value)"""
        = class exit `"""

> _____ end _eqlist.e
> q _____
        = local depvars
        - local eq `.`.eqlist'.eq name `i'''

> _____ begin _eqlist.e
> q _____
        - version 9.2
        - args item idx
        - if "`item'" == "count" {
        = if "name" == "count" {
            sreturn local value `""`.n_eq"""
            class exit `""`s(value)"""
        }
        - else if 0 < `idx' & `idx' <= `.n_eq' {
        = else if 0 < 2 & 2 <= 2 {
            - .eq_list[`idx'].item `item'
            = .eq_list[2].item name

> _____ begin _eqspec.ite
> m _____
        - version 9.2
        - args item
        - ._check_eq_item_name item, `item'
        = ._check_eq_item_name item, name

> _____ begin _eqspec._check_eq_item_nam
> e _____
        - version 9.2
        - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
        - if c(rc) error 198
        - if `:list sizeof other' {
        = if 0 {
            local other other_markvars
        }
        - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o

```

```

> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item name
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item name


---


> _____ end _eqspec._check_eq_item_name
> e _____
    - local value ```.item'''
    = local value `lnalpha'
    - sreturn local value ```value'''
    = sreturn local value `lnalpha'
    - class exit ```value'''
    = class exit `lnalpha'


---


> _____ end _eqspec.ite
> m _____
    - class exit ```s(value)'''
    = class exit `lnalpha'


---


> _____ end _eqlist.e
> q _____
    = local eq lnalpha
    - if `:length local eq' {
    = if !7 {
        local eq eq`i'
    }
    - if `:list eq in eqnames' {
    = if 0 {
        di as err "equation ``eq'' multiply defined"
        exit 110
    }
    - local eqnames `eqnames' `eq'
    = local eqnames piq_timing_max lnalpha
    - fvrexpand `.` `eqlist'.eq indepvars `i' if $ML_samp


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "indepvars" == "count" {
        sreturn local value ```.n_eq'''
```

```

        class exit `""`s(value)"""
    }
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item indepvars


---


> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPposure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
= if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
    - if `:list sizeof item' != 1 {
= if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
= c_local item indepvars


---


> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`.`item`"""
= local value `"""
    - sreturn local value `""`value`"""
= sreturn local value `"""
    - class exit `""`value`"""
= class exit `"""


---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)`"""

```

```

= class exit `"""
_____
> _____ end _eqlist.e
> q _____
= fvexpand if __000006
- if "`r(tsops)" == "true" {
= if "" == "true" {
    global ML_preserve no
}
- local eq_rhs`i' ```r(varlist)`"""
= local eq_rhs2 `"""
- local eq_nocons`i' `.`eqlist'.eq nocons `i``
_____
> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "nocons" == "count" {
    sreturn local value `".n_eq`"""
    class exit `"`s(value)`"""
}
- else if 0 < `idx' & `idx' <= `".n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item nocons
_____
> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freparm' `options'

```

```

= local item      nocons
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
- local value `""`item"""
= local value `""0"""
- sreturn local value `""`value"""
= sreturn local value `""0"""
- class exit `""`value"""
= class exit `""0"""


---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `""0"""


---


> _____ end _eqlist.e
> q _____
= local eq_nocons2 0
- local eq_offset`i' `.`eq_list'.eq offset `i'


---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "offset" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `.`n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item offset


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'

```

```

= ._check_eq_item_name item, offset


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther` `nocons' `offset' `exposure' `freeparm' `options'
    = local item      offset
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item offset


---


> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value ```item`````
    = local value ````
    - sreturn local value ```value`````
    = sreturn local value ````
    - class exit ```value`````
    = class exit ````


---


> _____ end _eqspec.ite
> m _____
    - class exit ```s(value)`````
    = class exit ````


---


> _____ end _eqlist.e
> q _____
    = local eq_offset2
    - local eq_exposure`i' `.` `eqlist'.eq exposure `i``


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item`` == "count" {

```

```

= if "exposure" == "count" {
    sreturn local value `".n_eq`"
    class exit `"$s(value)`"
}
- else if 0 < `idx` & `idx` <= `.n_eq` {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx`].item `item'
= .eq_list[2].item exposure


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, exposure


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item exposure
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item exposure


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `".`item`"
= local value `"$0`"
- sreturn local value `"$`value`"
= sreturn local value `"$0`"
- class exit `"$`value`"
= class exit `"$0`"


---


> _____ end _eqspec.ite

```

```

> m -----
  - class exit `""`s(value)"""
  = class exit `"0"""

> ----- end _eqlist.e
> q -----
  = local eq_exposure2 0
  - local eq_freeparm`i' `.`eqlist'.eq freeparm `i''

> ----- begin _eqlist.e
> q -----
  - version 9.2
  - args item idx
  - if "`item'" == "count" {
  = if "freeparm" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
  }
  - else if 0 < `idx' & `idx' <= `n_eq' {
  = else if 0 < 2 & 2 <= 2 {
    - .eq_list[`idx'].item `item'
    = .eq_list[2].item freeparm

> ----- begin _eqspec.ite
> m -----
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
  = ._check_eq_item_name item, freeparm

> ----- begin _eqspec._check_eq_item_nam
> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
  = if 0 {
    local other other_markvars
  }
  - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
  = local item           freeparm
  - if `:list sizeof item' != 1 {
  = if 1 != 1 {
    error 198

```

```

        }
- c_local `c_item' `item'
= c_local item freparm


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value ``.`item'''
= local value ``1'''
- sreturn local value ```value'''
= sreturn local value ``1'''
- class exit ```value'''
= class exit ``1'''



---


> _____ end _eqspec.ite
> m _____
- class exit ```s(value)'''
= class exit ``1'''



---


> _____ end _eqlist.e
> q _____
= local eq_freeparm2 1
- local lhs `lhs' `depvars'
= local lhs piq_timing_max
- local eq_names `eq_names' `eq'
= local eq_names piq_timing_max lnalpha
- local nxvars :list sizeof eq_rhs`i'
= local nxvars :list sizeof eq_rhs2
- local TMP : copy local eq_rhs`i'
= local TMP : copy local eq_rhs2
- forval j = 1/`nxvars' {
= forval j = 1/0 {
    gettoken xvar TMP : TMP
    local colna ```colna' `eq':`xvar''''
}
- if `eq_freeparm`i' {
= if 1 {
- if `nxvars' {
= if 0 {
    di as err "{it:xvars} not allowed with option {bf:freeparm}"
    exit 198
}
- if strpos(```eq''', ":") {
= if strpos(``lnalpha'', ":") {
    local colna ```colna' `/`eq''''
}
- else {

```

```

- local colna `""`colna' /:`eq'"
= local colna `"

```

```

- else tempname ub0
- mat `ub0' = e(b)
= mat __000008 = e(b)
- tempname v0 iv0
- mat `v0' = e(V)
= mat __000009 = e(V)
- mat `iv0' = syminv(`v0')
= mat __00000A = syminv(__000009)
- global ML_rank0 = colsof(`v0') - diag0cnt(`iv0')
= global ML_rank0 = colsof(__000009) - diag0cnt(__00000A)
- if !`:length local lf0' & !missing(e(ll)) {
= if !0 & !missing(e(ll)) {
- local lf0 `=colsof(`ub0')' `e(ll)'
= local lf0 2 -442.7295221007071
- }
- local ub0
- }
- if `:length local init' {
= if 8 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __00000B = J(1,9,0)
- matrix colna `b0' = `colna'
= matrix colna __00000B = piq_timing_max:cb_authors_ext piq_timin
> g_max:vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg pi
> q_timing_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timin
> g_max:_cons /:lnalpha
- `vv' _mkvec `b0', from(`init') update first error("initial vecto
> r")
= version 18: _mkvec __00000B, from(__000002) update first error("initial vector")


---


> _____ begin _mkve
> c _____
- local vv : display "version " string(_caller()) ":""
- version 6
- gettoken matout 0 : 0, parse(", ")
- if "`matout'"=="" | "`matout'"=="," {
= if "__00000B"=="" | "__00000B"=="," {
    error 198
}
- syntax [, FROM(str) UPdate COLnames(str) ERRor(str) FIRST ]
- if "`update'"!=""
= if "update"!=""
- if "`colname'"!=""

```

```

= if ""!="" {
    di in red "update and colnames() cannot both be " "specified"
    exit 198
}
- capture local colname : colfullnames `matout'
= capture local colname : colfullnames __00000B
- if _rc {
    di in red "matrix `matout' not found"
    exit 111
}
- if rowsof(matrix(`matout')) != 1 {
= if rowsof(matrix(__00000B)) != 1 {
    di in red "`matout' matrix to be updated must be " "a row vect
> or"
    exit 503
}
- local matin `matout'
= local matin __00000B
-
- if `"`error"'"!="" {
= if `initial vector"'"!="" {
- local error `"`error': "
= local error `initial vector: "
-
- tempname mat
- if `"`from"'"!="" {
= if `__000002"'"!="" {
- From `from'
= From __000002


---


> _____ begin _mkvec.Fro
> m _____
    - gettoken from 0 : 0, parse(",") bind
    - sret clear
    - sret local from `from'
= sret local from __000002
    - if `"`0"'"!="" {
= if `""'"!="" {
        syntax [, COPY SKIP ]
    }
    - sret local copy `copy'
= sret local copy
    - sret local skip `skip'
= sret local skip


---


> _____ end _mkvec.Fro

```

```
> m _____  
- local copy `s(copy)  
= local copy  
- local skip `s(skip)  
= local skip  
- if ``copy'!= "" {  
= if ""!= "" {  
CopyMat `mat' ``error''` `s(from)  
if ``colname'!= "" {  
local dim : list sizeof colname  
if `dim' != colsof(matrix(`mat')) {  
di in red ``error'matrix must '' ``be dimension '' `dim'  
exit 503  
}  
'vv' mat colnames `mat' = `colname'  
}  
}  
- else {  
- 'vv' BuildMat `mat' ``error''` `skip'` `s(from)  
= version 18: BuildMat _00000C ``initial vector: "" "" _000002
```

```
> _____ begin _mkvec.BuildMa  
> t _____  
- local vv : display "version " string(_caller()) ":"  
- version 6  
- args matall error skip  
- macro shift 3  
- tokenize ``*'', parse(" =")  
= tokenize ``_000002'', parse(" =")  
- tempname matadd  
- local i 1  
- while ``i'!= "" {  
= while ``_000002'!= "" {  
- local k = `i' + 1  
= local k = 1 + 1  
- if ``k'==="" {  
= if ""==="" {  
local j = `i' + 2  
'vv' MkMat `matadd' ``i'' ``j'' `skip'  
local i = `i' + 3  
}  
- else {  
- ChkMat `matadd' ``i'' ``error''  
= ChkMat _00000D _000002 ``initial vector: ""
```

```
> _____ begin _mkvec.ChkMa
```

```

> t -----
    - args matout matin error
    - capture di matrix(`matin'[1,1])
    = capture di matrix(__000002[1,1])
    - if _rc {
        capture confirm number `matin'
        if _rc {
            di in red `error'matrix `matin' not found"
            exit 111
        }
        di in red `error'list of numbers requires copy option"
        exit 198
    }
    - if matrix(rowsof(`matin'))!=1 & colsof(`matin')!=1) {
    = if matrix(rowsof(__000002))!=1 & colsof(__000002)!=1) {
        di in red "`matin'" matrix(rowsof(`matin')) " x " matrix(
> colsof(`matin')) " is not a vector"
        exit 503
    }
    - if matrix(rowsof(`matin')) == 1 {
    = if matrix(rowsof(__000002)) == 1 {
        - mat `matout' = `matin'
        = mat __00000D = __000002
        - }
        - else mat `matout' = `matin''
        = else mat __00000D = __000002'

```

```

> ----- end _mkvec.ChkMa
> t -----
    - local i = `i' + 1
    = local i = 1 + 1
    - }
    - mat `matall' = nullmat(`matall') , `matadd'
    = mat __00000C = nullmat(__00000C) , __00000D
    - }
    - while ``i''!=``' {
    = while ``!=``' {
        local k = `i' + 1
        if ``k''==``=' {
            local j = `i' + 2
            `vv' MkMat `matadd' ``i'' ``j'' `skip'
            local i = `i' + 3
        }
        else {
            ChkMat `matadd' ``i'' ``error''
            local i = `i' + 1

```

```

        }
        mat `matall' = nullmat(`matall') , `matadd'
    }



---


> _____ end _mkvec.BuildMa
> t _____
- if `"`colname""!="" {
= if `piq_timing_max:cb_authors_ext piq_timing_max:vint_late pi
> q_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timing_max:stky_
> pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timing_max:_cons /lnalp
> ha""!="" {
- `vv' ChkNames `mat' "`matin" `"`colname"" `"`error"" "skip
> "" "`first"
= version 18: ChkNames __00000C __00000B `piq_timing_max:cb_a
> uthors_ext piq_timing_max:vint_late piq_timing_max:estimated piq_timing_max:
> stky_pr_rotemberg piq_timing_max:stky_pr_calvo piq_timing_max:open piq_timin
> g_max:wlth piq_timing_max:_cons /lnalpha" "initial vector: "" "" "first"


---


> _____ begin _mkvec.ChkName
> s _____
- local vv : display "version " string(_caller()) ":""
- version 6
- args mat matin names error skip first
- local dim = colsof(matrix(`mat'))
= local dim = colsof(matrix(__00000C))
- if "`first""!="" {
= if "first"!="" {
- gettoken name : names
- local eq1 = bsubstr(``name'',1,index(``name'',""))
= local eq1 = bsubstr(`piq_timing_max:cb_authors_ext',1,inde
> x(`piq_timing_max:cb_authors_ext","",":")
- }
- tempname new fill x
- local k : list sizeof names
- if "`matin""!="" {
= if "__00000B"!="" {
- mat `new' = `matin'
= mat __00000D = __00000B
- }
- else {
        mat `new' = J(1,`k',0)
        `vv' mat colnames `new' = `names'
    }
- mat `fill' = J(1,`k',0)
= mat __00000E = J(1,9,0)
- local i 1

```

```

- while `i' <= `dim' {
= while 1 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,1..1]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:cb_authors_ext"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:cb_authors_ext"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse cb_authors_ext, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__0000D,"piq_timing_max:cb_a
> uthors_ext")
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/piq_timing_max:cb_authors_ext" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''''=="_" & ``eq1''''!="" {
= if 1==. & "piq_timing_max"=="_" & "piq_timing_max:"!=""
> {
    `vv' local j = colnumb(`new','`eq1``name')

```

```

if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`eq1``oname''')
}
}
-
if `j'!=. {
= if 1!=. {
-
if `fill'[1,`j'] {
= if __0000E[1,1] {
_ms_parse_parts `name'
if !r(omit) {
if "`eq'"=="_"
di in red `"`error'duplicate'"'" entries for `name' found"""
}
else di in red `"`error'"'"'" duplicate entries for `eq':`nam
> e' found"""
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
-
else mat `fill'[1,`j'] = 1
= else mat __0000E[1,1] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,1] = __0000C[1,1]
-
-
else if "`skip'"=="" {
= else if ""=="" {
if "`eq'"=="_"
local spec : copy local name
}
di in red `"`error'extra parameter'"'"`spec' found"" _n "s
> pecify skip option if necessary"
exit 111
}
-
local i = `i' + 1
= local i = 1 + 1
-
-
while `i' <= `dim' {
= while 2 <= 9 {
-
mat `x' = `mat'[1,`i'..`i']
= mat __0000F = __0000C[1,2..2]
-
local eq : coleq `x'
= local eq : coleq __0000F
-
local name : colname `x'
= local name : colname __0000F

```

```

- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
  local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:vint_late"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:vint_late"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse vint_late, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname `r(stripes)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:vint
> _late'')
- if `j' == . & "`oname'" != "" {
= if 2 == . & "" != "" {
  `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 2 == . & "/piq_timing_max:vint_late" != "" {
  `vv' local j = colnumb(`new','`sspec'')
}
- if `j'==. & ``eq''==_ & ``eq1''!="" {
= if 2==. & "piq_timing_max"==_ & "piq_timing_max":!= ""
> {
  `vv' local j = colnumb(`new','`eq1``name'')
  if `j' == . & "`oname'" != "" {
  `vv' local j = colnumb(`new','`eq1``oname'')
}
- if `j'!=. {
= if 2!=. {
- if `fill'[1,`j'] {
= if __00000E[1,2] {

```

```

_ms_parse_parts `name'
if !r(omit) {
if ``eq'=='_'' {
di in red ```error'duplicate '' ``entries for `name' found''
}
else di in red ```error''' ``duplicate entries for `eq':`nam
> e' found''
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat _00000E[1,2] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat _00000D[1,2] = _00000C[1,2]
- }
- else if ``skip''=="" {
= else if ""=="" {
if ``eq'=='_'' {
local spec : copy local name
}
di in red ```error'extra parameter '' ``spec' found'' _n "s
> pecify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 2 + 1
-
- while `i' <= `dim' {
= while 3 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat _00000F = _00000C[1,3..3]
- local eq : coleq `x'
= local eq : coleq _00000F
- local name : colname `x'
= local name : colname _00000F
- if ``eq'' == "/" {
= if "piq_timing_max" == "/" {
local spec "/`name'"
}
- else {
- local spec ```eq':`name'"
= local spec "piq_timing_max:estimated"
- if (usubstr(``eq'',1,1) != "/") {

```

```

= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:estimated"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse estimated, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000D,"piq_timing_max:esti
> mated")
- if `j' == . & "`oname'" != "" {
= if 3 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 3 == . & "/piq_timing_max:estimated" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''== "_" & ``eq1''!="" {
= if 3==. & "piq_timing_max"== "_" & "piq_timing_max:"!= ""
> {
    `vv' local j = colnumb(`new','`eq1``name')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1``oname')
    }
}
- if `j'!=. {
= if 3!=. {
- if `fill'[1,`j'] {
= if __00000E[1,3] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ``eq''== "_" {
            di in red ``error'duplicate '' ``entries for `name' found''
        }
        else di in red ``error''' ``duplicate entries for `eq':`nam
> e' found"
exit 507

```

```

}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
-
else mat `fill'[1,`j'] = 1
= else mat __00000E[1,3] = 1
-
mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,3] = __00000C[1,3]
-
-
else if "`skip'"==""
= else if ""==""
if "`eq'"=="_"
local spec : copy local name
di in red `""`error'extra parameter "' `""`spec' found"' _n "s
> pecify skip option if necessary"
exit 111
}
-
local i = `i' + 1
= local i = 3 + 1
-
-
while `i' <= `dim'
= while 4 <= 9 {
-
mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,4..4]
-
local eq : coleq `x'
= local eq : coleq __00000F
-
local name : colname `x'
= local name : colname __00000F
-
if "`eq'" == "/"
= if "piq_timing_max" == "/" {
local spec "/`name'"
}
-
else {
-
local spec "`eq':`name'"
= local spec "piq_timing_max:stky_pr_rotemberg"
-
if (usubstr("`eq'",1,1) != "/") {
=
if (usubstr("piq_timing_max",1,1) != "/") {
-
local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:stky_pr_rotemberg"
-
}
-
-
local oname
-
local ospec
-
capture _msparse `name', noomit

```

```

= capture _msparse_stky_pr_rotemberg, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(strip)`"
    local ospec `eq':`oname"'
    }
}
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000D,"piq_timing_max:stky
> _pr_rotemberg")
- if `j' == . & "`oname'" != "" {
= if 4 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 4 == . & "/piq_timing_max:stky_pr_rotemberg" != "" {
    `vv' local j = colnumb(`new','`sspec'')
}
- if `j'==. & `eq'=="_" & `eq1'!=""
= if 4==. & `piq_timing_max'=="_" & `piq_timing_max'!=""
> {
    `vv' local j = colnumb(`new','`eq1``name'')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1``oname'')
    }
}
- if `j'!=. {
= if 4!=. {
- if `fill'[1,`j'] {
= if __00000E[1,4] {
    _ms_parse_parts `name'
    if !r(omit) {
        if `eq'=="_"
            di in red `error'duplicate ``entries for `name' found``
        }
        else di in red `error'`"duplicate entries for `eq':`nam
> e' found``
    exit 507
}
else if !missing(`new'[1,`j']) {
    matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000E[1,4] = 1
- mat `new'[1,`j'] = `mat'[1,`i']

```

```

= mat __00000D[1,4] = __00000C[1,4]
- }
- else if "`skip'"=="" {
= else if ""=="" {
    if "`eq'"=="_"
        local spec : copy local name
    }
    di in red `"'`error'extra parameter "'`spec' found'" _n "s
> pecify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 4 + 1
- }
- while `i' <= `dim' {
= while 5 <= 9 {
    - mat `x' = `mat'[1,`i'..`i']
    = mat __00000F = __00000C[1,5..5]
    - local eq : coleq `x'
    = local eq : coleq __00000F
    - local name : colname `x'
    = local name : colname __00000F
    - if "`eq'" == "/" {
    = if "piq_timing_max" == "/" {
        local spec "/`name'"
    }
    - else {
        - local spec "`eq':`name'"
        = local spec "piq_timing_max:stky_pr_calvo"
        - if (usubstr("`eq'",1,1) != "/") {
        = if (usubstr("piq_timing_max",1,1) != "/") {
            - local sspec "/`eq':`name'"
            = local sspec "/piq_timing_max:stky_pr_calvo"
            - }
            - }
            - local oname
            - local ospec
            - capture _msparse `name', noomit
            = capture _msparse stky_pr_calvo, noomit
            - if c(rc) == 0 {
            - if r(omit) {
                local oname `r(stripes)'"
                local ospec "`eq':`oname'"
            }
            - }
            - `vv' local j = colnumb(`new','`spec')"

```

```

= version 18: local j = colnumb(__00000D,"piq_timing_max:stky
> _pr_calvo")
- if `j' == . & "`oname'" != "" {
= if 5 == . & "" != "" {
`vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 5 == . & "/piq_timing_max:stky_pr_calvo" != "" {
`vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & `"\`eq'"=="_" & `"\`eq1'"!=" {
= if 5==. & `"\`piq_timing_max'"=="_" & `"\`piq_timing_max:"!="
> {
`vv' local j = colnumb(`new','`name')
if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`eq1``oname')
}
}
- if `j'!=. {
= if 5!=. {
- if `fill'[1,`j'] {
= if __00000E[1,5] {
_ms_parse_parts `name'
if !r(omit) {
if `"\`eq'"=="_"
di in red `"\`error'duplicate '' ``entries for `name' found'''
}
else di in red `"\`error''' ``duplicate entries for `eq':`nam
> e' found'''
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000E[1,5] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,5] = __00000C[1,5]
-
- else if `"\`skip'"==""
= else if ""==""
if `"\`eq'"=="_"
local spec : copy local name
}
di in red `"\`error'extra parameter '' ``spec' found'' _n "s

```

```

> pecify skip option if necessary"
      exit 111
    }
  - local i = `i' + 1
  = local i = 5 + 1
  - }
  - while `i' <= `dim' {
  = while 6 <= 9 {
  - mat `x' = `mat'[1,`i'..`i']
  = mat __00000F = __00000C[1,6..6]
  - local eq : coleq `x'
  = local eq : coleq __00000F
  - local name : colname `x'
  = local name : colname __00000F
  - if "`eq'" == "/" {
  = if "piq_timing_max" == "/" {
    local spec "/`name'"
  }
  - else {
  - local spec "`eq':`name'"
  = local spec "piq_timing_max:open"
  - if (usubstr("`eq'",1,1) != "/") {
  = if (usubstr("piq_timing_max",1,1) != "/") {
  - local sspec "/`eq':`name'"
  = local sspec "/piq_timing_max:open"
  - }
  - }
  - local oname
  - local ospec
  - capture _msparse `name', noomit
  = capture _msparse open, noomit
  - if c(rc) == 0 {
  - if r(omit) {
    local oname ``r(stripes)''
    local ospec "`eq':`oname'"
  }
  - }
  - `vv' local j = colnumb(`new','`spec')
  = version 18: local j = colnumb(__00000D,"piq_timing_max:open"
> '')
  - if `j' == . & "`oname'" != "" {
  = if 6 == . & "" != "" {
  `vv' local j = colnumb(`new','`ospec')
  }
  - if `j' == . & "`sspec'" != "" {
  = if 6 == . & "/piq_timing_max:open" != "" {

```

```

`vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''''=="_" & ``eq1''''!="" {
= if 6==. & "piq_timing_max"=="_" & "piq_timing_max:"'!="
> {
    `vv' local j = colnumb(`new','`eq1``name')
    if `j' == . & ``oname'" != "" {
        `vv' local j = colnumb(`new','`eq1``oname')
    }
}
- if `j'!=. {
= if 6!=. {
- if `fill'[1,`j'] {
= if __0000E[1,6] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ``eq''''=="_"
            di in red ``error'duplicate "' ``entries for `name' found'"
        }
        else di in red ``error'''' ``duplicate entries for `eq':`nam
    > e' found'''
        exit 507
    }
    else if !missing(`new'[1,`j']) {
        matrix `mat'[1,`i'] = `new'[1,`j']
    }
}
- else mat `fill'[1,`j'] = 1
= else mat __0000E[1,6] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,6] = __0000C[1,6]
- }
- else if ``skip''''=="" {
= else if ""=="" {
    if ``eq''''=="_"
        local spec : copy local name
    }
    di in red ``error'extra parameter "' ``spec' found'" _n "s
> pecify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 6 + 1
- }
- while `i' <= `dim' {
= while 7 <= 9 {

```

```

- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,7..7]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:wlth"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:wlth"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wlth, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripes)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000D,"piq_timing_max:wlth
> ")
- if `j' == . & "`oname'" != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/piq_timing_max:wlth" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''==_ & ``eq1'''!="" {
= if 7==. & "piq_timing_max"==_ & "piq_timing_max":!= ""
- `vv' local j = colnumb(`new','`eq1``name')
if `j' == . & "`oname'" != "" {
    `vv' local j = colnumb(`new','`eq1``oname')

```

```

        }
    }
- if `j'!=. {
= if 7!=. {
- if `fill'[1,`j'] {
= if __0000E[1,7] {
    _ms_parse_parts `name'
    if !r(omit) {
        if "`eq'"=="_"
            di in red `""`error'duplicate "' `""entries for `name' found'"
        }
        else di in red `""`error""' `""duplicate entries for `eq':`nam
> e' found""
        exit 507
    }
    else if !missing(`new'[1,`j']) {
        matrix `mat'[1,`i'] = `new'[1,`j']
    }
}
- else mat `fill'[1,`j'] = 1
= else mat __0000E[1,7] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,7] = __0000C[1,7]
- }
- else if "`skip'"==""
= else if ""==""
    if "`eq'"=="_"
        local spec : copy local name
    }
    di in red `""`error'extra parameter "' `""`spec' found'" _n "s
> pecify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 7 + 1
-
- while `i' <= `dim' {
= while 8 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __0000F = __0000C[1,8..8]
- local eq : coleq `x'
= local eq : coleq __0000F
- local name : colname `x'
= local name : colname __0000F
- if "`eq'" == "/"
= if "piq_timing_max" == "/" {

```

```

    local spec "/`name'"
}
- else {
- local spec ``eq':`name''
= local spec "piq_timing_max:_cons"
- if (usubstr(``eq'',1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:_cons"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse _cons, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripes)''
    local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000D,"piq_timing_max:_con
> s")
- if `j' == . & ``oname'' != "" {
= if 8 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & ``sspec'' != "" {
= if 8 == . & "/piq_timing_max:_cons" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''==_& ``eq1''!=_ {
= if 8==. & "piq_timing_max"==_& ``piq_timing_max:""!=_
> {
    `vv' local j = colnumb(`new','`eq1``name')
    if `j' == . & ``oname'' != "" {
        `vv' local j = colnumb(`new','`eq1``oname')
    }
}
- if `j'!=. {
= if 8!=. {
- if `fill'[1,`j'] {
= if __00000E[1,8] {
    _ms_parse_parts `name'
    if !r(omit) {

```

```

if "`eq'=='_" {
di in red `""`error'duplicate "' `'"entries for `name' found"''
}
else di in red `""`error'"' `'"duplicate entries for `eq':`nam
> e' found"'
    exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
-
else mat `fill'[1,`j'] = 1
= else mat __00000E[1,8] = 1
-
mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,8] = __00000C[1,8]
-
-
else if "`skip'=='"" {
=
else if ""==" {
    if "`eq'=='_" {
        local spec : copy local name
    }
    di in red `""`error'extra parameter "' `""`spec' found"' _n "s
> pecify skip option if necessary"
        exit 111
    }
-
local i = `i' + 1
= local i = 8 + 1
-
-
while `i' <= `dim' {
= while 9 <= 9 {
-
mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,9..9]
-
local eq : coleq `x'
= local eq : coleq __00000F
-
local name : colname `x'
= local name : colname __00000F
-
if "`eq'" == "/" {
=
if "/" == "/" {
-
local spec "/`name'"
= local spec "/lnalpha"
-
}
-
else {
    local spec "`eq':`name'"
    if (usubstr("`eq'",1,1) != "/") {
        local sspec "/`eq':`name'"
    }
}

```

```

        }
      - local oname
      - local ospec
      - capture _msparse `name', noomit
      = capture _msparse lnalpha, noomit
      - if c(rc) == 0 {
      - if r(omit) {
          local oname `r(stripes)'
          local ospec `eq':`oname'
        }
      - }
      - `vv' local j = colnumb(`new','`spec')
      = version 18: local j = colnumb(__00000D,'/lnalpha')
      - if `j' == . & "`oname'" != "" {
      = if 9 == . & "" != "" {
          `vv' local j = colnumb(`new','`ospec')
        }
      - if `j' == . & "`sspec'" != "" {
      = if 9 == . & "/piq_timing_max:_cons" != "" {
          `vv' local j = colnumb(`new','`sspec')
        }
      - if `j'==. & ``eq''== "_" & ``eq1''!= "" {
      = if 9==. & "/''== "_" & "piq_timing_max:"'!= "" {
          `vv' local j = colnumb(`new','`eq1``name')
          if `j' == . & "`oname'" != "" {
              `vv' local j = colnumb(`new','`eq1``oname')
            }
        }
      - if `j'!=. {
      = if 9!=. {
        - if `fill'[1,`j'] {
      = if __00000E[1,9] {
          _ms_parse_parts `name'
          if !r(omit) {
            if ``eq''== "_" {
              di in red ``error'duplicate '' ``entries for `name' found''
            }
            else di in red ``error''' ``duplicate entries for `eq':`nam
      > e' found'''
          exit 507
        }
      else if !missing(`new'[1,`j']) {
        matrix `mat'[1,`i'] = `new'[1,`j']
      }
    }
  - else mat `fill'[1,`j'] = 1

```

```

= else mat __00000E[1,9] = 1
- mat `new'[1,'j'] = `mat'[1,'i']
= mat __00000D[1,9] = __00000C[1,9]
- }
- else if "`skip'"==""
= else if ""==""
if "`eq'"=="_"
local spec : copy local name
}
di in red `error'extra parameter "'`spec' found'" _n "s
> pecify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 9 + 1
- }
- while `i' <= `dim' {
= while 10 <= 9 {
mat `x' = `mat'[1,`i'..`i']
local eq : coleq `x'
local name : colname `x'
if "`eq'" == "/"
local spec "/`name'"
}
else {
local spec "`eq':`name'"
if (usubstr("`eq'",1,1) != "/") {
local sspec "/`eq':`name'"
}
}
local oname
local ospec
capture _msparse `name', noomit
if c(rc) == 0 {
if r(omit) {
local oname `r(stripes)'
local ospec "`eq':`oname'"
}
}
`vv' local j = colnumb(`new','`spec')
if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`ospec')
}
if `j' == . & "`sspec'" != "" {
`vv' local j = colnumb(`new','`sspec')
}

```

```

if `j'==. & ```eq'"=="_" & ```eq1'"!=" {
`vv' local j = colnumb(`new','`eq1``name')
if `j' == . & ```oname'" != "" {
`vv' local j = colnumb(`new','`eq1``oname')
}
}
if `j'!=. {
if `fill'[1,`j'] {
_ms_parse_parts `name'
if !r(omit) {
if ```eq'"=="_" {
di in red ```error'duplicate '' ``"entries for `name' found"
}
else di in red ```error'''' ``duplicate entries for `eq':`nam
> e' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
else mat `fill'[1,`j'] = 1
mat `new'[1,`j'] = `mat'[1,`i']
}
else if ```skip'"==" {
if ```eq'"=="_" {
local spec : copy local name
}
di in red ```error'extra parameter '' ```spec' found" _n "s
> pecify skip option if necessary"
exit 111
}
local i = `i' + 1
}
- mat `fill' = `fill'*`fill'
= mat __00000E = __00000E*__00000E'
- sret clear
- sret local k_fill = `fill'[1,1]
= sret local k_fill = __00000E[1,1]
- mat `mat' = `new'
= mat __00000C = __00000D


---


> _____ end _mkvec.ChkName
> s _____
- local fill `s(k_fill)'
= local fill 9

```

```

- }
- }
- }
- else {
    local fill 0
    if "`update'"!=""
        mat `mat' = `matin'
    }
    else if "``colname'"!=""
        local dim : list sizeof colname
        mat `mat' = J(1,`dim',0)
        `vv' mat colnames `mat' = `colname'
    }
    else {
        di in red "from() must be specified"
        exit 198
    }
}
-
-sret clear
-sret local copy `copy'
=sret local copy
-sret local skip `skip'
=sret local skip
-sret local k = colsof(matrix(`mat'))
=sret local k = colsof(matrix(_00000C))
-if "`fill'"!=""
=if "9"!=""
-sret local k_fill `fill'
=sret local k_fill 9
-
-else sret local k_fill = colsof(matrix(`mat'))
=else sret local k_fill = colsof(matrix(_00000C))
-matrix rename `mat' `matout', replace
=matrix rename _00000C _00000B, replace

```

```

> _____ end _mkve
> c _____
- }
- tempname bomit
- matrix `bomit' = J(1,:list sizeof colna',0)
= matrix _00000C = J(1,9,0)
- matrix colna `bomit' = `colna'
= matrix colna _00000C = piq_timing_max:cb_authors_ext piq_timin
> g_max:vint_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg pi
> q_timing_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timin
> g_max:_cons /:lnalpha

```

```

- _ms_omit_info `bomit'
= _ms_omit_info __0000C
- if r(k OMIT) | `:length local constraints' {
= if r(k OMIT) | 0 {
    nobreak {
        capture noisily break {
            _b_post0 `colna'
            local clist : subinstr local constraints ", " " ", all
            `vv' makecns `clist', `cnsnotes'
            local constraints `""`r(clist)"""
            local k_autoCns = e(k_autoCns)
            tempfile C
            capture matrix `C' = e(Cns)
            local rcc = c(rc)
        }
        local rc = c(rc)
        ereturn clear
    }
    if (`rc') exit `rc'
    if (`rcc') {
        local C
        local k_autoCns
    }
}
- if `:length local constraints' {
= if 0 {
    local lf0
}
- local vce `vce' `robust' `cluster'
= local vce vce(robust) robust
- if `:length local vce' {
= if 18 {
    - _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old : `w
> t', `vce'
        = _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old : ,
> vce(robust) robust

```

```

> _____ begin _vce_pars
> e _____
```

```

        - version 10
        - _onColon_parse `0'
        = _onColon_parse , argoptlist(CLuster) optlist(OIM OPG Robust)
```

```
> old : , vce(robust) robust
```

```

> _____ begin _onColon_pars
> e _____
```

```

- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettokn before after : 0, parse(":") bind match(par) quotes
- if `par' != "" {
= if "" != "" {
    local before `"(`before')"`
}
- if `"`before'"' == ":" {
= if `", argoptlist(CLuster) optlist(OIM OPG Robust) old "' ==
> ":" {
    sreturn local after `"`after'"
    exit
}
- while `""`COLON'"' != ":" & `"`after'"' != "" {
= while `""' != ":" & `":` , vce(robust) robust'"' != "" {
    - gettokn COLON after : after, parse(":") bind match(par) quo
> tes
- if `par' != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if `""`COLON'"' != ":" {
= else if `":'" != ":" {
    local before `""`before' `COLON'"
    local COLON
}
- }
- while `""`COLON'"' != ":" & `""`after'"' != "" {
= while `":'" != ":" & `", vce(robust) robust'"' != "" {
    gettokn COLON after : after, parse(":") bind match(par) quo
> tes
if `par' != "" {
local before `before' (`COLON')
local COLON
}
else if `""`COLON'"' != ":" {
local before `""`before' `COLON'"
local COLON
}
- if `""`COLON'"' != ":" {
= if `":'" != ":" {
    di as err ""' found where ':' expected"
    exit 198

```

```

        }
      - sreturn local before `""`before"""
      = sreturn local before `", argoptlist(CLuster) optlist(OIM OPG
> Robust) old """
      - sreturn local after `""`after"""
      = sreturn local after `", vce(robust) robust"""



---


> _____ end _on_colon_pars
> e _____
      - local 0 `""`s(before)"""
      = local 0 `", argoptlist(CLuster) optlist(OIM OPG Robust) old """
      - local user `""`s(after)"""
      = local user `", vce(robust) robust"""
      - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist
> (namelist) PWallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
      - local touse `varlist'
      = local touse
      - tempname o a
      - .`o' = ._optlist.new
      = .__00000D = ._optlist.new
      - local optlist : list uniq optlist
      - foreach name of local optlist {
      - .`o'.adopt `name'
      = .__00000D.adopt OIM



---


> _____ begin _optlist.addop
> t _____
      - version 9
      - syntax name(name=optspec) [, PASSthru]
      - local mname = lower(``optspec'')
      = local mname = lower("OIM")
      - if ``passthru'' != "" {
      = if "" != "" {
          local optspec `optspec'(passthru)
      }
      - .options.Arrpush ``optspec''
      = .options.Arrpush "OIM"
      - .names.Arrpush ``mname''
      = .names.Arrpush "oim"



---


> _____ end _optlist.addop
> t _____
      - }
      - .`o'.adopt `name'
      = .__00000D.adopt OPG

```

```

> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec`)
    = local mname = lower("OPG")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "OPG"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "opg"

> _____ end _optlist.addop
> t _____
    - }
    - .`o'.addopt `name'
    = .__00000D.addopt Robust

> _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec')
    = local mname = lower("Robust")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "Robust"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "robust"

> _____ end _optlist.addop
> t _____
    - }
    - .`a' = ._optlist.new
    = .__00000E = ._optlist.new
    - local argoptlist : list uniq argoptlist
    - foreach name of local argoptlist {
    - .`a'.addopt `name'
    = .__00000E.addopt CLuster

```

```

> ----- begin _optlist.addop
> t -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(``optspec'')
    = local mname = lower("CLuster")
    - if ```passthru'' != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arppush ```optspec''
    = .options.Arppush "CLuster"
    - .names.Arppush ```mname''
    = .names.Arppush "cluster"

----- end _optlist.addop
> t -----
    - }
    - local OPTNAMES ````o'.dumpnames''

----- begin _optlist.dumpname
> s -----
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/3 {
    - local namelist `namelist' `.names[`i']'
    = local namelist oim
    - }
    - local namelist `namelist' `.names[`i']'
    = local namelist oim opg
    - }
    - local namelist `namelist' `.names[`i']'
    = local namelist oim opg robust
    - }
    - local namelist : list uniq namelist
    - sreturn local namelist ```namelist''
    = sreturn local namelist ``"oim opg robust''
    - class exit ```namelist''
    = class exit ``"oim opg robust"'

----- end _optlist.dumpname
> s -----
    = local OPTNAMES ``"oim opg robust''
    - local ARGOPTNAMES ````a'.dumpnames''

----- begin _optlist.dumpname

```

```

> s -----
    - version 9
    - forval i = 1/.names.arnels' {
    = forval i = 1/1 {
    - local namelist `namelist' `.`names[`i']'
    = local namelist  cluster
    - }
    - local namelist : list uniq namelist
    - sreturn local namelist `"`namelist`"'
    = sreturn local namelist `"`cluster`"'
    - class exit `"`namelist`"'
    = class exit `"`cluster`'"'
-----
> ----- end _optlist.dumpname
> s -----
    = local ARGOPTNAMES `"`cluster`"'
    - local AND : list OPTNAMES & ARGOPTNAMES
    - if `:list sizeof AND' {
    = if 0 {
        di as err "vcetype `:word 1 of `AND`' specified twice"
        exit 198
    }
    - local pswallowed : list uniq pswallowed
    - local pwlist robust cluster
    - foreach n of local pswallowed {
        local lc = lower(`n`)
        local pwlist `pwlist' `lc'
    }
    - if "`old_is_ok'" != "" {
    = if "old_is_ok" != "" {
        - local ROBUST robust
        - if `:list ROBUST in OPTNAMES' {
        = if 1 {
        - local robust Robust
    }
    - local CLUSTER cluster
    - if `:list CLUSTER in ARGOPTNAMES' {
    = if 1 {
        - local cluster CLuster(varname)
    }
    - local 0 `"`user`"'
    = local 0 `", vce(robust) robust`"'
    - syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
    = syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varnam
> e) ]

```

```
> _____ begin _vce_parse.ParseVC
> E _____
- if ``vce'' != "" {
= if ``robust'' != "" {
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE __00000D __00000E , robust
_____
> _____ begin _optlist.dumpoption
> s _____
- gettoken 0 0 : 0, parse(" ,")
- gettoken A 0 : 0, parse(" ,")
- local OPTSPECS ```O'.dumpoptions' `.`A'.dumpoptions'"
_____
> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/3 {
- local optlist `optlist' `.`options[`i']'
= local optlist OIM
- }
- local optlist `optlist' `.`options[`i']'
= local optlist OIM OPG
- }
- local optlist `optlist' `.`options[`i']'
= local optlist OIM OPG Robust
- }
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'''
= sreturn local optlist ``OIM OPG Robust''
- class exit ```optlist'''
= class exit ``OIM OPG Robust''
_____
> _____ end _optlist.dumpoption
> s _____
_____
> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels' {
= forval i = 1/1 {
- local optlist `optlist' `.`options[`i']'
= local optlist CLuster
- }
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'''
```

```

= sreturn local optlist `"$CLuster"
- class exit `"`optlist`"""
= class exit `"$CLuster"


---


> _____ end _optlist.dumpoption
> s _____
= local OPTSPECS `"$OIM OPG Robust CLuster"
- local OPTNAMES `".`O'.dumpnames` `.`A'.dumpnames`"""



---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`.names.arrnels' {
= forval i = 1/3 {
- local namelist `namelist' `.`names[`i']'
= local namelist oim
- }
- local namelist `namelist' `.`names[`i']'
= local namelist oim opg
- }
- local namelist `namelist' `.`names[`i']'
= local namelist oim opg robust
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist`"""
= sreturn local namelist `"$oim opg robust"
- class exit `"`namelist`"""
= class exit `"$oim opg robust"


---


> _____ end _optlist.dumpname
> s _____


---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`.names.arrnels' {
= forval i = 1/1 {
- local namelist `namelist' `.`names[`i']'
= local namelist cluster
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist`"""
= sreturn local namelist `"$cluster"
- class exit `"`namelist`"""
= class exit `"$cluster"

```

```

> _____ end _optlist.dumpname
> s _____
= local OPTNAMES `oim opg robust cluster"
- syntax [, `OPTSPECS']
= syntax [, OIM OPG Robust CLuster]
- foreach OPT of local OPTNAMES {
- if ```OPT'`` != "" {
= if `''' != "" {
    return local vce `OPT'
    continue, break
}
-
- if ```OPT'`` != "" {
= if `''' != "" {
    return local vce `OPT'
    continue, break
}
-
- if ```OPT'`` != "" {
= if `"robust" != "" {
- return local vce `OPT'
= return local vce robust
- continue, break
}
}
_____
> _____ end _vce_parse.ParseVC
> E _____
- if c(rc) {
    di as err "vcetype {bf:`name'} not allowed"
    exit 198
}
- local name `r(vce)'
= local name robust
- if "`weight'" == "pweight" & !`list name in pwlist' {
= if "" == "pweight" & !1 {
    di as err "pweights are not allowed with vce(`name')"
    exit 198
}
- return add
- if ```robust'`` != "" & !inlist("`name'", "", "robust", "eim", "oi
> m", "cluster") {
= if ```robust'`` != "" & !inlist("robust", "", "robust", "eim", "oim"
> , "cluster") {
    opts_exclusive ``robust' vce(`name')"
}

```

```

- if "`name'" == "cluster" {
= if "robust" == "cluster" {
    if `"`args`'" == "" {
        di as err "invalid vce(cluster) option"
        exit 198
    }
    confirm var `args'
    unab args : `args'
    local markout `args'
    if "`cluster'" != "" {
        if !`:list args == cluster' {
            di as err "options cluster() and vce(cluster) are in conflict"
            exit 100
        }
    }
}
}
}
}
- else if "`cluster'" != "" & !inlist("`name'", "eim", "oim") {
= else if "" != "" & !inlist("robust", "eim", "oim") {
    opts_exclusive "cluster() vce(`name')"
}
}
- if `"`args`'" != "" {
= if `""' != "" {
    if ! `:list name in ARGOPTNAMES' {
        di as err "invalid vce() option"
        exit 198
    }
    if "`name'" == "hc2" {
        confirm var `args'
        unab args : `args'
        local markout `args'
    }
    return local vceargs `"`:list retok args`'"
}
}
- else if `:list name in ARGOPTNAMES' {
= else if 0 {
    if "`noargopt_is_ok'" == "" {
        di as err "invalid vce() option"
        exit 198
    }
}
}
- }
- else {
    if "`weight'" == "pweight" | "`robust'" != "" {
        local vce robust
    }
    if "`cluster'" != "" {

```

```

    local vce cluster
    local args `cluster'
    local markout `cluster'
}
return local vce `""`vce"""
return local vceargs `""`args"""
}
- if "`return(vce)`" != "" {
= if "robust" != "" {
- if `"`return(vceargs)`" != "" {
= if `""` != "" {
    local ss " "
}
- return local vceopt `"


---



```

> _____ end _vce_pars
> e _____
- local vce `r(vce)'
= local vce robust
-
- else if `"`weight`" == "pweight" {
= else if `""` == "pweight" {
 local vce robust
}
- if `:length local svy` {
= if 0 {
 local vce svy
}
- if `""`vce`" == "cluster" {

```


```

```

= if `"robust" == "cluster" {
    local cluster `r(cluster)'
    markout $ML_sample `cluster', strok
}
- if `:length local group' {
= if 0 {
    markout $ML_sample `group', strok
    global ML_group : copy local group
    if bsubstr(`:type `group`',1,3) == "str" {
        if `interactive' {
            SetGlobalVar ML_grp : _MLgr
        }
        else {
            global ML_grp : tempvar
            if `"`moptobj`'" != "" {
                global ML_grp `moptobj'$ML_grp
            }
        }
        quietly egen $ML_grp = group(`group')
        if ! `:length local cluster' {
            local cluster : copy global ML_grp
        }
    }
    else {
        if ! `:length local cluster' {
            local cluster : copy global ML_group
        }
    }
}
- if "$ML_samp" != "$ML_sample" {
= if "__000006" != "__000006" {
    quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
- if `:length local vce' == 0 {
= if 6 == 0 {
    if `"`technique`'" == "bhhh" {
        local vce opg
    }
    else local vce oim
}
- if inlist(`vce', "robust", "cluster") & bsubstr(`evaltype',1
>,1) == "d" {
= if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1) ==
> "d" {
    local optname = cond(`svy' == "", "vce(`vce')", "svy")
    di as err "option `optname' is not allowed with evaltype `evaltype'

```

```

> pe ""
    exit 198
}
- if `:length local crittype' == 0 {
= if 0 == 0 {
- if inlist(`vce', "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
- local crittype "log pseudolikelihood"
- }
- else local crittype "log likelihood"
- }
- global ML_waldtest `waldtest'
= global ML_waldtest -1
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {
        SetGlobalVar ML_w : _MLw
    }
    else {
        global ML_w : tempvar
        if `moptobj' != "" {
            global ML_w `moptobj'$ML_w
        }
    }
}
- if `:length local weight' {
= if 0 {
    if `moptobj' != "" {
        cap drop $ML_w
    }
    quietly gen double $ML_w `exp' if $ML_samp
    local wtype `weight'
    local wexp `exp'
    global ML_wtyp : copy local wtype
    global ML_wexp : copy local wexp
    if `wtype' == "iweight" | `svy' != "" {
        local zeroweight zeroweight
    }
}
- if inlist(`vce', "svy", "cluster") {
= if inlist("robust", "svy", "cluster") {
    if `interactive' {
        SetGlobalVar ML_subv : _MLsu
    }
    else {
        global ML_subv : tempvar
    }
}

```

```

if `"\`moptobj'" != "" {
global ML_subv `moptobj'$ML_subv
}
}
}
- quietly count if $ML_sample
= quietly count if __000006
- if r(N) == 0 {
  error 2000
}
- if `"\`weight'" != "" {
= if "" != "" {
  quietly count if $ML_sample & $ML_w != 0
  if r(N) == 0 {
    di in gr "all observation have zero weights"
    exit 2000
  }
}
}
- if `:length local lf0' {
= if 20 {
- if `:list sizeof lf0' != 2 {
= if 2 != 2 {
  di as err "lf0(`lf0') invalid"
  exit 198
}
- global ML_k0 : word 1 of `lf0'
= global ML_k0 : word 1 of 2 -442.7295221007071
- global ML_ll_0 : word 2 of `lf0'
= global ML_ll_0 : word 2 of 2 -442.7295221007071
- confirm integer number $ML_k0
= confirm integer number 2
- confirm number $ML_ll_0
= confirm number -442.7295221007071
- if $ML_k0 < 0 {
= if 2 < 0 {
  di as err "lf0(`lf0') invalid"
  exit 198
}
}
- if "`obs'" == "" {
= if "" == "" {
- if "`wtype'" != "fweight" {
= if "" != "fweight" {
- quietly count if $ML_sample
= quietly count if __000006
- local obs = r(N)

```

```

- }
- else {
    sum $ML_w if $ML_sample, mean
    local obs = r(sum)
}
-
- if `:length local iterid' {
= if 0 {
    local iterid = trim(bsubstr(```iterid''',1,32))
}
- if `:length local crittype' {
= if 20 {
    local crittype = trim(bsubstr(```crittype''',1,32))
= local crittype = trim(bsubstr(`"log pseudolikelihood"',1,32))
}
- if `:length local derivscale' {
= if 0 {
    confirm matrix `derivscale'
}
- if `:length local derivh' {
= if 0 {
    confirm matrix `derivh'
}
- local l : strlen local deriv
- ParseUsmin, `deriv' len(`l')
= ParseUsmin, len(0)

```

```

> _____ begin mopt.ParseUsmin
> n _____
> singokay) NOMIN MIN]
- capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2 mis
> usive"
exit 198
}
- if `min'"' != "" & `nomin'"' != "" {
= if `min'"' != "" & `nomin'"' != "" {
di as err "options {bf:min()} and {bf:nomin} are mutually exclus
> ive"
exit 198
}
```

```

- if (```min1''' != "") {
= if (`''' != "") {
  if (_rc) {
    capture confirm matrix `min1'
    if (_rc) {
      di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
      exit 198
    }
  }
  local deriv `min1'
}
- else if (```min''' != "") {
= else if (`''' != "") {
  if (`len' > length(```min''')) {
    di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
    exit 198
  }
  local deriv 1
}
- else {
- if (`len' > 0) {
= if (0 > 0) {
  if ("`nomin'" == "") {
    di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
    exit 198
  }
  else if (`len' > length(``nomin''')) {
    di as err "options {bf:min()} and {bf:nomin} are mutually excl
> usive"
    exit 198
  }
  else {
    local deriv 0
  }
}
- else {
- local deriv 0
- }
- }
- sreturn local deriv `deriv'
= sreturn local deriv 0

```

> _____ end mopt.ParseUseni

```

> n -----
  - local deriv = s(deriv)
  - if `:length local gnwmatrix' {
  = if 0 {
    confirm matrix `gnwmatrix'
    }
  - `vv' mata: Mopt_model()
  = version 18: mata: Mopt_model()

> ----- begin mopt_check_program
> m -----
  - version 10
  - args name
  - capture confirm name `name'
  = capture confirm name nbreg_lf
  - if c(rc) {
    di as err "unrecognized command: `name' invalid command name
  > "
    exit 199
  }
  - capture which `name'
  = capture which nbreg_lf
  - if !c(rc) {
  - exit

> ----- end mopt_check_program
> m -----
  - global ML_stat model
  - if !`interactive' {
  = if !0 {
  - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptob
> j')
  = version 18: MaxMin maximize, nooutput search(off) moptobj()

> ----- begin mopt.MaxMi
> n -----
  - local vv : di "version " string(_caller()) ":""
  - version 12
  - ChkMacros

> ----- begin mopt.ChkMacro
> s -----
  - if "$ML_stat" != "model" {
  = if "model" != "model" {
    di as err "you must issue -ml model- first"
    exit 198

```

```

        }
    - capture confirm var $ML_samp $ML_w $ML_subv
    = capture confirm var __000006 __000006
    - if c(rc) {
        di as err "Since issuing the -ml model- statement, you have
> done something to drop" _n "temporary variables ml added to your data. You
> must start again."
        Clear
        exit 111
    }



---


> _____ end mopt.ChkMacro
> s _____
    - syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0)
> LTOLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) Q
> TOLerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numlist m
> ax=1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly D0OPT S
> EArch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCLEAR
> NOL0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TTrace COEFDiffs GRADie
> nt HESSian noSKIpline noOUTput Level(cilevel) moptobj(string) * ]
    - if `:length local nrtolerance' {
    = if 0 {
        opts_exclusive "nrtolerance() `nonrtolerance'"
    }
    - if `:length local qtolerance' {
    = if 0 {
        opts_exclusive "qtolerance() `nonrtolerance'"
    }
    - opts_exclusive "`nonrtolerance' `shownrtolerance'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while ``''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
  - if `:length local shownrtolerance' {
= if 0 {
    local showtolerance showtolerance
}
- if "$ML_preserve" != "no" {
= if "no" != "no" {
    if `:length local score' {
        di as smcl as err "May not specify {bf:score()} option unless"
> _n "      a) estimation subsample is the entire data in memory, or" _n "
> b) you specify option {bf:nopreserve} on {bf:ml model} statement (meaning"
> _n "          your evaluation program explicitly restricts itself to obs" _n "
> "          for which {bf:$}" "{bf:ML_samp==1}.""
        exit 198
    }
    preserve
    local N = c(N)
    quietly keep if $ML_sample
    if (`N' != c(N)) {
        mata: Mopt_init_regetviews()
    }
}
- if `:length local score' {
= if 0 {
    SetupScore `"$ML_evaltype"' `"`score'"' $ML_n $ML_dim
    local scores "`s(scores)'"
}
- _parse_iterlog, `nolog' `log'
= _parse_iterlog,

```

```

> _____ begin _parse_iterlo
> g _____
  - version 16
  - syntax [, NOLOG LOG]
  - if "`log'`nolog'" != "" {
= if "" != "" {
    opts_exclusive "`log' `nolog'"
}
- else if "`c(iterlog)'" == "on" {
= else if "on" == "on" {
    - local log log
}
- else {
    local nolog nolog
}

```

```

        }
        - sreturn local log `log'
        = sreturn local log log
        - sreturn local nolog `nolog'
        = sreturn local nolog


---


> _____ end _parse_iterlo
> g _____
    - local log "`s(nolog)'"
    = local log ""
    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `

> coefdiffs'
    = local tropts
    - if "`tropts'" != "nolog" {
    = if "" != "nolog" {
    - local tropts `tropts' `gradient' `hessian'
    = local tropts
    - if "`skipline'" == "" {
    = if "" == "" {
    - if "`iterate'" != "0" | `:length local tropts' {
    = if "" != "0" | 0 {
    - di

    - }
    - }
    - }
    - else {
        local gradient
        local hessian
        local nolog nolog
    }
    - if "`search'" != "off" & "`iterate'" != "0" {
    = if "off" != "off" & "" != "0" {
        if "`search'" == "quietly" {
            local sopts nolog
        }
        else {
            if `:length local tropts' {
                if "`tropts'" != "nolog" {
                    local sopts trace
                }
                else local sopts nolog
            }
        }
        if "`search'" == "norescale" {
            local sopts `sopts' norescale
        }
    }

```

```

        }
    Search `bounds', nopreserve `sopts' `repeat' `maxmin'
}
- tempname value b V iv
- `vv' mata: Mopt_maxmin()
= version 18: mata: Mopt_maxmin()

> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsu
        - mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
        }
        - else {
        - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsu __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __00000==. { exit }
        - tempname alpha
        - tempvar mu p
        - quietly {
        - gen double `mu' = exp(`xb') if $ML_samp
        = gen double __00000Y = exp(__00000U) if __000006
        - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
        = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
        - if `lnalpha'<-20 {
        = if __00000V<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp

```

```

        }
        - else {
        - replace `sc1' = `p'*(`y'-'mu') if $ML_samp
        = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-'mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __00006
        - }
        - }
        - $ML_ec tempname g1 g2
        = * tempname g1 g2
        - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
        = * mlvecsum __00000 = __00000R, eq(1)
        - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
        = * mlvecsum __00000 = __00000S, eq(2)
        - $ML_ec matrix `g' = (`g1','g2')
        = * matrix __00000P = (,)
        - if `todo' == 1 | `lnf'==. { exit }
        = if 2 == 1 | __00000==. { exit }
        - tempname alpha d11 d12 d22
        - scalar `alpha' = exp(`lnalpha')
        = scalar __000010 = exp(__0000V)
        - if `lnalpha' < -20 {
        = if __00000V < -20 {
            mlmatsum `lnf' `d11' = `mu', eq(1)
            mlmatsum `lnf' `d12' = 0, eq(1,2)
            mlmatsum `lnf' `d22' = 0, eq(2)
        }
        - else {
        - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-'mu')+1),
> eq(1)
            = mlmatsum __00000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
            - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'mu'), eq(1,2
> )
            = mlmatsum __00000 __000012 = __000010*__00000Y*__00000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
            - mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')))) + `mu'*`p'*(`alpha'*`p'
> *(`y'-'mu')- 1), eq(2)
            = mlmatsum __00000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__0000

```

```

> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
    -
    - matrix `H' = (`d11','`d12' \ `d12'',`d22')
    = matrix __00000Q = (__000011,__000012 \ __000012',__000013)


---


> _____ end nbreg_l
> f _____
Iteration 0: Log pseudolikelihood = -394.57046


---


> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsu __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        -
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000==. { exit }


---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m

```

```

- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
    mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
    mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))

```

```

= mlsum __000000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
    -
    - if `todo' == 0 | `lnf'==. { exit }
    = if 2 == 0 | __00000==. { exit }
    - tempfile alpha
    - tempvar mu p
    - quietly {
    - gen double `mu' = exp(`xb') if $ML_samp
    = gen double __00000Y = exp(__00000U) if __000006
    - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
    = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
    -
    - if `lnalpha'<-20 {
    = if __00000V<-20 {
        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
    - else {
        replace `sc1' = `p'*(`y'-`mu') if $ML_samp
        = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
        -
        replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __00006
        -
        -
        - $ML_ec tempfile g1 g2
        = * tempfile g1 g2
        - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
        = * mlvecsum __000000 = __00000R, eq(1)
        - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
        = * mlvecsum __000000 = __00000S, eq(2)
        - $ML_ec matrix `g' = (`g1', `g2')
        = * matrix __00000P = (,)
        - if `todo' == 1 | `lnf'==. { exit }
        = if 2 == 1 | __00000==. { exit }
        - tempfile alpha d11 d12 d22
        - scalar `alpha' = exp(`lnalpha')
        = scalar __000010 = exp(__00000V)
        - if `lnalpha' < -20 {
        = if __00000V < -20 {
            mlmatsum `lnf' `d11' = `mu', eq(1)

```

```

    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p`*(`alpha`*`p`*(`y`-`mu')+1),
> eq(1)
= mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha`*`mu`*`p`^2*(`y`-`mu`), eq(1,2
> )
= mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
- mlmatsum `lnf' `d22' = `m`*(digamma(`m') - digamma(`y`+`m')
> - ln(`p') - `m`*(trigamma(`y`+`m') - trigamma(`m')) + `mu`*`p`*(`alpha`*`p`*
> *(`y`-`mu`)- 1), eq(2)
= mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W)) + __00000Y*__00000Z*(__000010*__0000
> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
-
- matrix `H' = (`d11', `d12' \ `d22', `d22')
= matrix __00000Q = (__000011, __000012 \ __000012', __000013)



---


> _____ end nbreg_l
> f _____

```

Iteration 1: Log pseudolikelihood = **-387.20395**

```

> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnlalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnlalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnlalpha')
= scalar __00000W = exp(-__00000V)
- if `lnlalpha' < -20 {
= if __00000V < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {

```

```

- mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsu __00000 = lngamma(__0000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__0000W) - __0000W*ln1p(exp(__0000U+__0000V)
> ) - piq_timing_max*ln1p(exp(-__0000U-__0000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempfile lnalpha m
      - mleval `xb' = `b', eq(1)
      = mleval __0000U = __0000N, eq(1)
      - mleval `lnalpha' = `b', eq(2) scalar
      = mleval __0000V = __0000N, eq(2) scalar
      - local y "$ML_y1"
      = local y "piq_timing_max"
      - scalar `m' = exp(-`lnalpha')
      = scalar __0000W = exp(-__0000V)
      - if `lnalpha' < -20 {
      = if __0000V < -20 {
          mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
      - else {
          - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
              = mlsu __00000 = lngamma(__0000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__0000W) - __0000W*ln1p(exp(__0000U+__0000V)
> ) - piq_timing_max*ln1p(exp(-__0000U-__0000V))
              - }
              - if `todo' == 0 | `lnf'==. { exit }
              = if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
      - version 6.0

```

```

- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
    - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsu __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 2 == 0 | __00000==. { exit }
    - tempfile alpha
    - tempvar mu p
    - quietly {
        - gen double `mu' = exp(`xb') if $ML_samp
        = gen double __00000Y = exp(__00000U) if __000006
        - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
        = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
        - if `lnalpha'<-20 {
        = if __00000V<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp
        }
        - else {
            - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
            = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
                - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
                    = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __000006

```

```

    - }
    - }
    - $ML_ec tempname g1 g2
    = * tempname g1 g2
    - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
    = * mlvecsum __000000 = __00000R, eq(1)
    - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
    = * mlvecsum __000000 = __00000S, eq(2)
    - $ML_ec matrix `g' = (`g1',`g2')
    = * matrix __00000P = (,,
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __000000==. { exit }
    - tempname alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __000010 = exp(__0000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlmatsum `lnf' `d11' = `mu', eq(1)
        mlmatsum `lnf' `d12' = 0, eq(1,2)
        mlmatsum `lnf' `d22' = 0, eq(2)
    }
    - else {
    - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __000000 __000011 = __0000Y*__0000Z*(__000010*__0
> 0000Z*(piq_timing_max-__0000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __000000 __000012 = __000010*__0000Y*__0000Z^2*(p
> iq_timing_max-__0000Y), eq(1,2)
        - mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m)*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __000000 __000013 = __0000W*(digamma(__0000W) - d
> igamma(piq_timing_max+__0000W) - ln(__0000Z) - __0000W*(trigamma(piq_timi
> ng_max+__0000W) - trigamma(__0000W))) + __0000Y*__0000Z*(__000010*__0000
> 0Z*(piq_timing_max-__0000Y)- 1), eq(2)
        - }
        - matrix `H' = (`d11',`d12' \ `d12'',`d22')
        = matrix __00000Q = (__000011,__000012 \ __000012',__000013)


---


> _____ end nbreg_l
> f _____
Iteration 2: Log pseudolikelihood = -365.84106


---


> _____ begin nbreg_l

```

```

> f -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __00000==. { exit }

----- end nbreg_l
> f -----
----- begin nbreg_l
> f -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {

```

```

        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __000000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __000000==. { exit }



---


> _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __000000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __000000==. { exit }



---


> _____ end nbreg_l
> f _____

```

```

> ----- begin nbreg_l -----
> f -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnlalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnlalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnlalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnlalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnlalpha')) - `y'*ln1p(exp(-`xb'-`lnlalpha'))
        = mlsum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __00000==. { exit }
        - tempfile alpha
        - tempvar mu p
        - quietly {
            - gen double `mu' = exp(`xb') if $ML_samp
            = gen double __00000Y = exp(__00000U) if __000006
            - gen double `p' = 1/(1+exp(`xb'+`lnlalpha')) if $ML_samp
            = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
        - if `lnlalpha'<-20 {
        = if __00000V<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp
        }
        - else {
            - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
            = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
            - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp

```

```

= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __000006
    -
    -
    - $ML_ec tempfile g1 g2
    = * tempfile g1 g2
    - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
    = * mlvecsum __000000 = __00000R, eq(1)
    - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
    = * mlvecsum __000000 = __00000S, eq(2)
    - $ML_ec matrix `g' = (`g1',`g2')
    = * matrix __00000P = (,)
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __000000==. { exit }
    - tempfile alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __000010 = exp(__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlmatsum `lnf' `d11' = `mu', eq(1)
        mlmatsum `lnf' `d12' = 0, eq(1,2)
        mlmatsum `lnf' `d22' = 0, eq(2)
    }
    - else {
        - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
        - mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m)*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__0000
> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
        -
        - matrix `H' = (`d11',`d12' \ `d12'',`d22')
        = matrix __00000Q = (__000011,__000012 \ __000012',__000013)
    _____
> _____ end nbreg_l
> f _____

```

Iteration 3: Log pseudolikelihood = **-365.39634**

```
> _____ begin nbreg_l  
> f _____  
- version 6.0  
- args todo b lnf g H sc1 sc2  
- tempvar xb  
- tempname lnalpha m  
- mleval `xb' = `b', eq(1)  
= mleval __00000U = __00000N, eq(1)  
- mleval `lnalpha' = `b', eq(2) scalar  
= mleval __00000V = __00000N, eq(2) scalar  
- local y "$ML_y1"  
= local y "piq_timing_max"  
- scalar `m' = exp(-`lnalpha')  
= scalar __00000W = exp(-__00000V)  
- if `lnalpha' < -20 {  
= if __00000V < -20 {  
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'  
    }  
- else {  
- mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m'  
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))  
= mlsum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(  
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)  
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))  
- }  
- if `todo' == 0 | `lnf'==. { exit }  
= if 0 == 0 | __00000==. { exit }
```

```
> _____ end nbreg_l  
> f _____  
_____
```

```
> _____ begin nbreg_l  
> f _____  
- version 6.0  
- args todo b lnf g H sc1 sc2  
- tempvar xb  
- tempname lnalpha m  
- mleval `xb' = `b', eq(1)  
= mleval __00000U = __00000N, eq(1)  
- mleval `lnalpha' = `b', eq(2) scalar  
= mleval __00000V = __00000N, eq(2) scalar  
- local y "$ML_y1"  
= local y "piq_timing_max"  
- scalar `m' = exp(-`lnalpha')
```

```

= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= msum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= msum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000==. { exit }

```

```

> _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __00000==. { exit }
        - tempfile alpha
        - tempvar mu p
        - quietly {
        - gen double `mu' = exp(`xb') if $ML_samp
        = gen double __00000Y = exp(__00000U) if __000006
        - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
        = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
    - if `lnalpha'<-20 {
    = if __00000V<-20 {
        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
    - else {
        - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
        = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0

```

```

> 00006
      - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-'mu') if $ML_samp
      = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __00006
      - }
      - }
      - $ML_ec tempname g1 g2
      = * tempname g1 g2
      - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
      = * mlvecsum __00000 = __00000R, eq(1)
      - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
      = * mlvecsum __00000 = __00000S, eq(2)
      - $ML_ec matrix `g' = (`g1','g2')
      = * matrix __00000P = (,,
      - if `todo' == 1 | `lnf'==. { exit }
      = if 2 == 1 | __00000==. { exit }
      - tempname alpha d11 d12 d22
      - scalar `alpha' = exp(`lnalpha')
      = scalar __000010 = exp(__0000V)
      - if `lnalpha' < -20 {
      = if __0000V < -20 {
          mlmatsum `lnf' `d11' = `mu', eq(1)
          mlmatsum `lnf' `d12' = 0, eq(1,2)
          mlmatsum `lnf' `d22' = 0, eq(2)
        }
      - else {
          - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-'mu')+1),
> eq(1)
          = mlmatsum __00000 __000011 = __0000Y*__0000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
          - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'mu'), eq(1,2
> )
          = mlmatsum __00000 __000012 = __000010*__0000Y*__0000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
          - mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')))) + `mu'*`p'*(`alpha'*`p'
> *(`y'-'mu')- 1), eq(2)
          = mlmatsum __00000 __000013 = __0000W*(digamma(__0000W) - d
> igamma(piq_timing_max+__00000W) - ln(__0000Z) - __0000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W))) + __0000Y*__0000Z*(__000010*__0000
> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
          - }
          - matrix `H' = (`d11','d12'\ `d12''','d22')
          = matrix __00000Q = (__000011,__000012 \ __000012',__000013)

```

```

> _____ end nbreg_l
> f _____
Iteration 4: Log pseudolikelihood = -363.82986
_____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000==. { exit }
    _____ end nbreg_l
> f _____
_____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar

```

```

- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= msum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= msum __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
- }

```

```

- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | _000000==. { exit }
- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __00006
- }
- }
- $ML_ec tempname g1 g2
= * tempname g1 g2
- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
= * mlvecsum __000000 = __00000R, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __000000 = __00000S, eq(2)
- $ML_ec matrix `g' = (`g1',`g2')
= * matrix __00000P = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | _000000==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __000010 = exp(__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mllmatsum `lnf' `d11' = `mu', eq(1)
    mllmatsum `lnf' `d12' = 0, eq(1,2)
    mllmatsum `lnf' `d22' = 0, eq(2)
}
- else {

```

```

- mlmatsum `lnf' `d11' = `mu'*`p`*(`alpha`*`p`*(`y`-`mu')+1),
> eq(1)
      = mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
      - mlmatsum `lnf' `d12' = `alpha`*`mu`*`p`^2*(`y`-`mu`), eq(1,2
> )
      = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
      - mlmatsum `lnf' `d22' = `m`*(digamma(`m') - digamma(`y`+`m')
> - ln(`p') - `m`*(trigamma(`y`+`m') - trigamma(`m')) + `mu`*`p`*(`alpha`*`p`
> *(`y`-`mu`)- 1), eq(2)
      = mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__0000
> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
      - }
      - matrix `H' = (`d11', `d12' \ `d12', `d22')
      = matrix __00000Q = (__000011, __000012 \ __000012', __000013)



---


> _____ end nbreg_l
> f _____
Iteration 5: Log pseudolikelihood = -363.77013

> _____ begin nbreg_l
> f _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempname lnalpha m
      - mleval `xb' = `b', eq(1)
      = mleval __00000U = __00000N, eq(1)
      - mleval `lnalpha' = `b', eq(2) scalar
      = mleval __00000V = __00000N, eq(2) scalar
      - local y "$ML_y1"
      = local y "piq_timing_max"
      - scalar `m' = exp(-`lnalpha')
      = scalar __00000W = exp(-__00000V)
      - if `lnalpha' < -20 {
      = if __00000V < -20 {
          mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y`*`xb'
        }
      - else {
          mlsu `lnf' = lngamma(`m`+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m`*ln1p(exp(`xb'+`lnalpha')) - `y`*ln1p(exp(-`xb'-`lnalpha'))
          = mlsu __000000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))

```

```

> ) - piq_timing_max*ln1p(exp(-_00000U-_00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | _000000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval _00000U = _00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval _00000V = _00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(`lnalpha')
    = scalar _00000W = exp(-_00000V)
    - if `lnalpha' < -20 {
    = if _00000V < -20 {
        msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = msum _00000 = lngamma(_00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(_00000W) - _00000W*ln1p(exp(_00000U+_00000V))
> ) - piq_timing_max*ln1p(exp(-_00000U-_00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | _000000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)

```

```

= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsu __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __00000==. { exit }
- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __000006
- }
- }
- $ML_ec tempname g1 g2
= * tempname g1 g2

```

```

- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
= * mlvecsum __000000 = __00000R, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __000000 = __00000S, eq(2)
- $ML_ec matrix `g' = (`g1',`g2')
= * matrix __00000P = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __000000==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __000010 = exp(__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlmatsum `lnf' `d11' = `mu', eq(1)
    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
= mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
= mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
- mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
= mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W)) + __00000Y*__00000Z*(__000010*__0000
> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
- }
- matrix `H' = (`d11',`d12' \ `d12'',`d22')
= matrix __00000Q = (__000011,__000012 \ __000012',__000013)


---


> _____ end nbreg_l
> f _____
Iteration 6: Log pseudolikelihood = -363.77006


---


> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb

```

```

- tempname lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsu __00000 = lngamma(__00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)
> ) - piq_timing_max*ln1p(exp(-__00000U-__00000V))
-
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m

```

```

> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsu _000000 = lngamma(_00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(_00000W) - _00000W*ln1p(exp(_00000U+_00000V)
> ) - piq_timing_max*ln1p(exp(-_00000U-_00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 0 == 0 | _000000==. { exit }


---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempfile lnalpha m
      - mleval `xb' = `b', eq(1)
      = mleval _00000U = _00000N, eq(1)
      - mleval `lnalpha' = `b', eq(2) scalar
      = mleval _00000V = _00000N, eq(2) scalar
      - local y "$ML_y1"
      = local y "piq_timing_max"
      - scalar `m' = exp(-`lnalpha')
      = scalar _00000W = exp(-_00000V)
      - if `lnalpha' < -20 {
      = if _00000V < -20 {
          mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
      - else {
          mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsu _000000 = lngamma(_00000W+piq_timing_max) - lngamma(
> piq_timing_max+1) - lngamma(_00000W) - _00000W*ln1p(exp(_00000U+_00000V)
> ) - piq_timing_max*ln1p(exp(-_00000U-_00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 2 == 0 | _000000==. { exit }
      - tempfile alpha
      - tempvar mu p
      - quietly {
          gen double `mu' = exp(`xb') if $ML_samp
          gen double _00000Y = exp(_00000U) if _000006
          gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
          gen double _00000Z = 1/(1+exp(_00000U+_00000V)) if _0000
> 06

```

```

- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-'`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-'`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __0
> 00006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-'`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq
> _timing_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) i
> f __00006
- }
- }
- $ML_ec tempname g1 g2
= * tempname g1 g2
- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
= * mlvecsum __00000 = __00000R, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __00000 = __00000S, eq(2)
- $ML_ec matrix `g' = (`g1','`g2')
= * matrix __00000P = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __00000==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __000010 = exp(__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlmatsum `lnf' `d11' = `mu', eq(1)
    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-'`mu')+1),
> eq(1)
= mlmatsum __00000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(piq_timing_max-__00000Y)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'`mu'), eq(1,2
> )
= mlmatsum __00000 __000012 = __000010*__00000Y*__00000Z^2*(p
> iq_timing_max-__00000Y), eq(1,2)
- mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')))) + `mu'*`p'*(`alpha'*`p'

```

```

> *(`y'-'mu')- 1), eq(2)
      = mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timi
> ng_max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__0000
> 0Z*(piq_timing_max-__00000Y)- 1), eq(2)
      - }
      - matrix `H' = (`d11','d12' \ `d12','`d22')
      = matrix __00000Q = (__000011,__000012 \ __000012',__000013)

> _____ end nbreg_l
> f _____
Iteration 7: Log pseudolikelihood = -363.77006
_____ begin mopt_pos
> t _____
      - args b V C wgt touse depvar
      - if `:length local touse' {
      = if 8 {
      - tempfile esamp
      - quietly gen byte `esamp' = `touse'
      = quietly gen byte __00000W = __000006
      - }
      - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname(`de
> pvar') buildfvinfo
      = ereturn post __00000U __00000V [], esample(__00000W) depnam
> e(piq_timing_max) buildfvinfo
_____ end mopt_pos
> t _____
      - ereturn scalar k_eq_model = abs($ML_waldtest)
      = ereturn scalar k_eq_model = abs(-1)
      - if `:length global ML_ll_0' {
      = if 18 {
      - ereturn scalar ll_0 = $ML_ll_0
      = ereturn scalar ll_0 = -442.7295221007071
      - if `:length global ML_rank0' {
      = if 1 {
      - ereturn scalar rank0 = $ML_rank0
      = ereturn scalar rank0 = 2
      - ereturn scalar df_m = e(rank) - $ML_rank0
      = ereturn scalar df_m = e(rank) - 2
      - }
      - else ereturn scalar df_m = e(rank) - $ML_k0
      = else ereturn scalar df_m = e(rank) - 2
      - }
      - if !`:length global ML_ll_0' | inlist(e(vce), "robust", "clust

```

```

> er", "linearized") {
    = if !18 | inlist(e(vce), "robust", "cluster", "linearized") {
    - if "$ML_svy" == "" {
    = if "" == "" {
    - _prefix_model_test, minimum
    _____
> _____ begin _prefix_model_tes
> t _____
    - version 9
    - syntax [name(name=cmd)] [, svy noADJust noSVYadjust MINimum
> ]
    - if (inlist(`cmd',"asmixlogit","cmmixlogit","cmxtmixlogit"))
> ) {
    = if (inlist("", "asmixlogit", "cmmixlogit", "cmxtmixlogit")) {
        _asmixtest, `svy' `adjust' `svyadjust'
        exit
    }
    - local K = 1
    - if "`e(k_eq_model)'" != "" {
    = if "1" != "" {
    - capture confirm integer number `e(k_eq_model)'
    = capture confirm integer number 1
    - if ! c(rc) {
    - local K = e(k_eq_model)
    - }
    - }
    - if "`e(k_eq_model_skip)'" != "" {
    = if "" != "" {
        capture confirm integer number `e(k_eq_model_skip)'
        if ! c(rc) {
        local skip = e(k_eq_model_skip)
        }
        }
    - ereturn local df_m
    - ereturn local F
    - ereturn local chi2
    - ereturn local chi2type
    - ereturn local p
    - if (`K' == 0) {
    = if (1 == 0) {
        exit
    }
    - forval i = 1/`K' {
    = forval i = 1/1 {
    - if !`:list i in skip' {
    = if !0 {

```

```

- local spec "`spec' ([#`i'])"
= local spec " ([#1])"
- }
- }
- tempfile cns omit
- capture matrix `cns' = get(Cns)
= capture matrix __00000W = get(Cns)
- if (c(rc)) local cns
- if "`cns'" != "" {
= if "" != "" {
    local k_autoCns = e(k_autoCns)
    if missing(`k_autoCns') {
        local k_autoCns 0
    }
    if rowsof(`cns') == `k_autoCns' {
        local cns
    }
}
- if "`svy'" != "" & "`adjust`svyadjust'" != "" {
= if "" != "" & "" != "" {
    local adjust nosvyadjust
}
- else local adjust
- _ms_omit_info e(b), nocons
- matrix `omit' = r(omit)
= matrix __00000X = r(omit)
- capture test `spec', `adjust'
= capture test  ([#1]),

```

```

> _____ begin tes
> t _____

```

```

- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
}

```

```

        exit
    }
- is_svy


---


> begin is_sv
> y
    - version 8
    - syntax [, Regression]
    - if `e(prefix)` == "svy" {
    = if "" == "svy" {
        return scalar is_svy = 1
    }
    - else if "`regression'" == "" {
    = else if "" == "" {
        - return scalar is_svy = ("`e(N_psu)'" != "")
        = return scalar is_svy = ("" != "")
    }
    - else {
        capt mat list e(b)
        local rc = _rc
        return scalar is_svy = ("`e(N_psu)'" != "") & (`rc' == 0
> )
    }


---


> end is_sv
> y
    - local is_svy = r(is_svy)
    - if replay() & `is_svy' == 0 {
    = if replay() & 0 == 0 {
        _test `0'
        return add
        exit
    }
    - version 8
    - WaldTest `is_svy' `0'
    = WaldTest 0 ([#1]),


---


> begin test.WaldTes
> t
    - gettoken is_svy 0 : 0
    - if `is_svy'" == "1" {
    = if "0" == "1" {
        if "`e(complete)'" == "available" {
            di as err `must run svy command with "complete" "' opt
> ion before using this command"
        exit 301

```

```

        }
    }
- gettoken tok : 0, parse(" (,)") bind
- local single single
- local zero `"\`0````"
= local zero `"\`([#1]), ``"
- if `"\`tok```` == "(" {
= if `"\`" == "(" {
- local single
- while `"\`tok```` == "(" {
= while `"\`" == "(" {
- gettoken tok 0 : 0, parse(" (,)") match(paren) bind
- local eqns `"\`eqns`"\`tok``````"
= local eqns `"\`[#1]``````"
- gettoken tok : 0, parse(" (,)") bind
- }
- while `"\`tok```` == "(" {
= while `"\`" == "(" {
    gettoken tok 0 : 0, parse(" (,)") match(paren) bind
    local eqns `"\`eqns`"\`tok``````"
    gettoken tok : 0, parse(" (,)") bind
}
- if `"\`tok```` != "," & `"\`tok```` != "" {
= if `"\`" != "," & `"\`" != "" {
    local single single
}
- }
- if `"\`single```` == "single" {
= if "" == "single" {
    local eqns
    local 0 `"\`zero````"
    while `"\`tok```` != "" & `"\`tok```` != "," {
        gettoken tok 0 : 0, parse(" ,") bind
        local eqns `"\`eqns`"\`tok````"
        gettoken tok : 0, parse(" ,") bind
    }
    local eqns `"\`eqns``````"
}
- syntax [, Accumulate noSVYadjust common CONSTANT MINimum
> Mtest Mtest2(passthru) noTest COEF matvlc(passthru) DF(numlist max=1 >0) ]
- if `"\`df```` != "" {
= if "" != "" {
    local dof = `df'
}
- else if `"\`e(df_r)````` != "" {
= else if "" != "" {

```

```

        local dof = e(df_r)
    }
- else {
- local dof =
- }
- if `"\`mtest`\mtest2'" != "" {
= if "" != "" {
    if inlist("`e(cmd)\"", "svymean", "svytotal", "svyratio")
>  {

        di as err `"\`mtest option not allowed after `e(cmd)``"
        exit 301
    }
    _mtest syntax, `mtest' `mtest2'
    local mtmethod `r(method)'
}
- if "`mtmethod'" != "" {
= if "" != "" {
    if `test'" != "" {
        di as err "options mtest and notest may not be combined"
        exit 198
    }
    if `accumulate'" != "" {
        di as err "options mtest and accumulate may not be combi
> ned"

        exit 198
    }
}
- if `is_svy' {
= if 0 {
    if `"\`e(cmd)``" == "margins" {
        local vce `"\`e(model_vce)`"
    }
    else local vce `"\`e(vce)`"
    if inlist(`"\`vce`", "bootstrap", "sdr") {
        if missing(`dof') {
            local svyadjust nosvyadjust
        }
    }
}
- if !`is_svy' & "`svyadjust'" != "" {
= if !0 & "" != "" {
    di as err "option nosvyadjust is allowed only with svy d
> ata"

        exit 198
}
- local svy_adjust = `is_svy' & "`svyadjust'" == ""

```

```

= local svy_adjust = 0 & "" == ""
- if `svy_adjust' & missing(`dof') & (missing(e(N_psu)) |
> missing(e(N_strata))) {
    = if 0 & missing(.) & (missing(e(N_psu)) | missing(e(N_str
> ata))) {
        di as err "impossible to adjust p-values"
        exit 198
    }
- if `is_svy' & `""`test""' == "" {
= if 0 & `""' == "" {
    if "`svyadjust'" == "" {
        di _n as txt "Adjusted Wald test"
    }
    else di _n as txt "Unadjusted Wald test"
}
- local tmp : subinstr local eqns "==" "", all count(loc
> l nch)
- if `nch' > 0 {
= if 0 > 0 {
    di as err "==" invalid operator"
    exit 198
}
- local eqns : subinstr local eqns "==" "=", all
- ExpandExps `""`eqns""' "`common'" "`constant'"
= ExpandExps `""`[#1]"", "", ""



---


> _____ begin test.ExpandExpn
> s _____
    - args expns common constant
    - gettoken exp expns : expns
    - while `""`exp""' != "" {
= while `""`[#1]"", != "" {
    - Expand `""`exp""' "`common'" "`constant'"
= Expand `""`[#1]"", "", ""



---


> _____ begin test.Expan
> d _____
    - args exp common constant
    - local junk : subinstr local exp "=" "=", count(local
> nch) all
    - if `nch' <= 1 {
= if 0 <= 1 {
    - return local explist `""`exp"",""
= return local explist `""`[#1]"""
    - return local nexp 1
    - exit

```

```
> _____ end test.Expan
> d _____
- local explist `""`explist' `r(explist)"""
= local explist `""`[#1]"""
- local nexp = `nexp' + `r(nexp)'
= local nexp = + 1
- gettoken exp expns : expns
- }
- while `""`exp"" != "" {
= while `""` != "" {
    Expand `""`exp"" `common` `constant`
    local explist `""`explist' `r(explist)"""
    local nexp = `nexp' + `r(nexp)'
    gettoken exp expns : expns
}
- return local explist `""`explist"""
= return local explist `""`[#1]"""
- return local nexp `nexp'
= return local nexp 1
_____
> _____ end test.ExpandExpn
> s _____
- local explist `""`r(explist)"""
= local explist `""`[#1]"""
- local nexp `r(nexp)'
= local nexp 1
- local acc `accumulate'
= local acc
- foreach exp of local explist {
- quietly _test `exp' , `acc' `common' `constant' notest
= quietly _test [#1] , notest
- local acc acc
- }
- if "`test'" == "notest" {
= if "" == "notest" {
    _test , notest
    exit
}
- quietly _test , `matvlc'
= quietly _test ,
- if `dof' < . {
= if . < . {
    local testtype F
    tempfile F df1 df2 p drop
    if "`r(F)'" != "" {
```

```

scalar `F' = r(F)
}
else {
scalar `F' = r(chi2)/r(df)
}
scalar `df1' = r(df)
scalar `df2' = `dof'
scalar `p' = Ftail(`df1', `df2', `F')
scalar `drop' = r(drop)
}
- else {
- local testtype chi2
- tempname chi2 df1 p drop
- scalar `chi2' = r(chi2)
= scalar __00000Y = r(chi2)
- scalar `df1' = r(df)
= scalar __00000Z = r(df)
- scalar `p' = r(p)
= scalar __000010 = r(p)
- scalar `drop' = r(drop)
= scalar __000011 = r(drop)
- }
- local i 1
- while "`r(dropped_`i')'" != "" {
= while "" != "" {
    local dropped_`i' `r(dropped_`i')"
    local ++i
}
- if `svy_adjust' {
= if 0 {
    if "`df'" != "" {
        local svy_d = `df'
    }
    else if !missing(e(df_r)) {
        local svy_d = e(df_r)
    }
    else local svy_d = e(N_psu)-e(N_strata)
    if missing(`svy_d') {
        di as err "internal error in adjustment for svy"
        exit 10001
    }
    if "`testtype'" == "F" {
        scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
    }
    else {
        tempname F df2

```

```

scalar `F' = ((`svy_d'-`df1'+1)/(`svy_d'*`df1')) * `chi2
> '
}
scalar `df2' = `svy_d' - `df1' + 1
if `df2' < 0 {
scalar `F' = .
}
scalar `p' = Ftail(`df1', `df2', `F')
local testtype F
}
- if "`mtmethod'" != "" {
= if "" != "" {
tempname R r Rr V b VR tm Wald
mat `V' = e(V)
mat `b' = e(b)
mat `Rr' = get(Rr)
local nb = rowsof(`V')
local nr = rowsof(`Rr')
mat `R' = `Rr'[1...,1..`nb']
mat `VR' = `R'*`V'*`R'
mat `r' = `R'*`b' - `Rr'[1...,`=`nb'+1']
mat `Wald' = `r'*syminv(`VR')*`r'
mat `tm' = J(`nr', 3, .)
mat colnames `tm' = `testtype' df p
forvalues it = 1 / `nr' {
mat `Wald' = `r'[`it',1]^2 / `VR'[`it',`it']
mat `tm'[`it',1] = `Wald'[1,1]
mat `tm'[`it',2] = 1
if `svy_adjust' {
mat `tm'[`it',3] = Ftail(1,`svy_d',`tm'[`it',1])
}
else if "`testtype'" == "chi2" {
mat `tm'[`it',3] = chi2tail(1,`tm'[`it',1])
}
else {
mat `tm'[`it',3] = Ftail(1,`df2',`tm'[`it',1])
}
}
if "`mtmethod'" != "noadjust" {
_mtest adjust `tm', mtest(`mtmethod') pindex(3) append
mat `tm' = r(result)
local pindex 4
}
else local pindex 3
}
- _test, notest

```

```

- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    di as txt "      Constraint `dropped_`i' dropped"
    local ++i
}
- if "`mtmethod'" == "" {
= if "" == "" {
- di
- if "`testtype'" == "chi2" {
= if "chi2" == "chi2" {
- di as txt _col(12) "chi2(`%3.0f `df1' `)" =" as res %8.2
> f `chi2'
= di as txt _col(12) "chi2(`%3.0f __00000Z `)" =" as res %
> 8.2f __00000Y
- di as txt _col(10) "Prob > chi2 = " as res %8.4f `p'
= di as txt _col(10) "Prob > chi2 = " as res %8.4f __0000
> 10
- }
- else {
    di as txt "      F(`%3.0f `df1' `," `%6.0f `df2' `)" =" as res %8.2f `F'
        di as txt _col(13) "Prob > F =" as res %10.4f `p'
    }
- }
- else {
    local nexp = rowsof(`tm')
    local nc = colsof(`tm')
    if "`testtype'" == "F" {
        local d "F(df,`=`df2'`)"
        local dip "p > F"
    }
    else {
        local d chi2
        local dip "p > chi2"
    }
    di
    di as txt "{hline 7}{c TT}{hline 30}"
    di as txt "      {c |}{ralign 12:`d'}      df{ralign 11:
> `dip'}"
        di as txt "{hline 7}{c +}{hline 30}"
        forvalues it = 1 / `nexp' {
            di as txt "      (`it') {c |}" as res _col(12) %9.2f `tm'[`it',1] _col(22) %6.0f `tm'[`it',2] _col(33) %6.4f `tm'[`it','pindex'] as txt
>   "*"
        }

```

```

        di as txt "{hline 7}{c +}{hline 30}"
        di as txt " All {c |}" as res _col(12) %9.2f ``testtyp
> e'' _col(22) %6.0f `df1' _col(33) %6.4f `p'
        di as txt "{hline 7}{c BT}{hline 30}"
        _mtest footer 1 ``mtmethod'" "* "
    }
- if "`coef'" != "" {
= if "" != "" {
    Table
}
- return scalar p = `p'
= return scalar p = __000010
- return scalar df = `df1'
= return scalar df = __00000Z
- if "`testtype'" == "F" {
= if "chi2" == "F" {
    return scalar F = `F'
    return scalar df_r = `df2'
}
- else return scalar chi2 = `chi2'
= else return scalar chi2 = __00000Y
- return scalar drop = `drop'
= return scalar drop = __000011
- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    return scalar dropped_`i' = `dropped_`i''
    local ++i
}
- if "`mtmethod'" != "" {
= if "" != "" {
    return matrix mtest `tm'
    return local mtmethod `mtmethod'
}



---


> _____ end test.WaldTes
> t _____
- return add


---


> _____ end tes
> t _____
- if !c(rc) {
- if `:length local minimum' {
= if 7 {
- quietly test, min

```

```

> _____ begin tes
> t _____
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit
}
- is_svy
_____
> _____ begin is_sv
> y _____
- version 8
- syntax [, Regression]
- if `"\`e(prefix)""' == "svy" {
= if `""' == "svy" {
    return scalar is_svy = 1
}
- else if "`regression'" == "" {
= else if "" == "" {
- return scalar is_svy = ("`e(N_psu)'" != "")
= return scalar is_svy = ("" != "")
}
- else {
    capt mat list e(b)
    local rc = _rc
    return scalar is_svy = ("`e(N_psu)'" != "") & (`rc' == 0
)
}
_____
> _____ end is_sv
> y _____
- local is_svy = r(is_svy)
- if replay() & `is_svy' == 0 {
= if replay() & 0 == 0 {

```

```

- _test `0'
= _test , min
- return add
- exit


---


> _____ end tes
> t _____
    -
    - ereturn scalar df_m = r(df)
    - local drop = r(drop)
    - if `drop' {
    = if 0 {
        local drop 0
        local i 1
        local idrop `r(dropped_`i')'''
        while "`idrop'" != "" {
            if !`omit'[1,`idrop'] {
                local ++drop
            }
            local ++i
            local idrop `r(dropped_`i')''''
            }
            }
    - if `drop' == 0 | "`cns'" != "" {
    = if 0 == 0 | "" != "" {
        - if !missing(e(df_r)) {
            ereturn scalar F = r(F)
        }
        - else {
            - ereturn scalar chi2 = r(chi2)
            - ereturn local chi2type Wald
            }
            - ereturn scalar p = r(p)
            }
            - else {
                if !missing(e(df_r)) {
                    ereturn scalar F = .
                }
                else {
                    ereturn scalar chi2 = .
                    ereturn local chi2type Wald
                }
                ereturn scalar p = .
            }
        }
        - else {
    
```

```

        if missing(e(df_r)) {
            ereturn local chi2type Wald
        }
        ereturn scalar df_m = 0
    }

> _____ end _prefix_model_tes
> t _____
    - }
    - else {
        _prefix_model_test, $ML_svy $ML_noadj
    }
    - }
    - else if `:length global ML_ll_0' {
    = else if 18 {
        if `"`maxmin`"' == "minimize" {
            ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
        }
        else {
            ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
        }
        ereturn scalar p = chi2tail(e(df_m), e(chi2))
        ereturn local chi2type "LR"
    }
    - if `:length global ML_wexp' {
    = if 0 {
        ereturn local wtype `"$ML_wtyp"'
        ereturn local wexp `"$ML_wexp"'
    }
    - if `:length global ML_group' {
    = if 0 {
        ereturn local group `"$ML_group"'
        if `"`e(clustvar)`"' == "$ML_grp" & "$ML_grp" != "" {
            ereturn local clustvar `"$ML_group"'
        }
    }
    - ereturn local cmd "ml"
    - if `:length local score' {
    = if 0 {
        mata: Mopt_score(0)
        ereturn local scorevars `scores'
    }
    - if "$ML_preserve" != "no" {
    = if "no" != "no" {
        restore
        if `"`e(prefix)`"' == "svy" & e(N_strata.omit) {

```

```

        tempname v
        quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v')
> subpop(`e(subpop)') touse($ML_sample)
}
ereturn repost, esample($ML_sample)
}
- if `"`moptobj`"" != "" {
= if `"" != "" {
    local clear noclear
}
- if !`:length local clear' {
= if !0 {
- Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop __000006
    - capture drop $ML_samp
    = capture drop __000006
    - capture drop $ML_sample
    = capture drop __000006
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*


---


> _____ end mopt.Clea
> r _____
    - }
    - else {
        capture confirm var $ML_sample
        if c(rc) {
            quietly gen byte $ML_sample = e(sample)
        }
    }
- if `:length local output' == 0 {
= if 8 == 0 {
    Display, level(`level') `options'
}


---


> _____ end mopt.MaxMi
> n _____

```

```

    - }

> l _____ end mopt.Mode
> l
    - if c(rc) {
        local rc = c(rc)
        Clear
        exit `rc'
    }
    - exit

> t _____ end mop
> t
    - exit

> l _____ end m
> l
    - est local cmd
    - if "`score'"!=""
    = if ""!= ""
        label var `scvar1' "Score index for x*b from nbreg"
        rename `scvar1' `scname1'
        label var `scvar2' "Score index for /ln`parm' from nbreg"
        rename `scvar2' `scname2'
        est local scorevars `scname1' `scname2'
    }
    - _b_pclass PCDEF : default

> s _____ begin _b_pclas
> s
    - version 15
    - args c_value COLON key
    - _onColonParse `0'
    = _onColonParse PCDEF : default

> e _____ begin _onColonPars
> e
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - getToken before after : 0, parse(":") bind match(par) quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"'
    }
    - if `"`before'"' == ":" {

```

```

= if `PCDEF` == ":" {
    sreturn local after `after`
    exit
}
- while `COLON` != ":" & `after` != "" {
= while `:` != ":" & `default` != "" {
- gettoken COLON after : after, parse(":") bind match(par) quotes
- if `par` != "" {
= if `` != "" {
    local before `before` (`COLON`)
    local COLON
}
- else if `COLON` != ":" {
= else if `:` != ":" {
    local before `before` `COLON`
    local COLON
}
- }
- while `COLON` != ":" & `after` != "" {
= while `:` != ":" & `default` != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if `par` != "" {
        local before `before` (`COLON`)
        local COLON
    }
    else if `COLON` != ":" {
        local before `before` `COLON`
        local COLON
    }
}
- if `COLON` != ":" {
= if `:` != ":" {
    di as err " found where `:` expected"
    exit 198
}
- sreturn local before `before`
= sreturn local before `PCDEF`
- sreturn local after `after`
= sreturn local after `default`

```

> _____ end _on_colon_pars

> e _____

```

- local c_value `s(before)`
= local c_value `PCDEF`
- local key `s(after)`
= local key `default`

```

```

- confirm name `c_value'
= confirm name PCDEF
- mata: st_b_pcclass(`:list retok key')
= mata: st_b_pcclass("default")
- c_local `c_value' `value'
= c_local PCDEF 0


---


> _____ end _b_pcclas
> s _____
- _b_pcclass PCAUX : aux


---


> _____ begin _b_pcclas
> s _____
- version 15
- args c_value COLON key
- _onColon_parse `0'
= _onColon_parse PCAUX : aux


---


> _____ begin _onColon_pars
> e _____
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quotes
- if "`par'" != "" {
= if "" != "" {
    local before `"(`before')"'
}
- if `"`before'"' == ":" {
= if `"PCAux'" == ":" {
    sreturn local after `"`after'"'
    exit
}
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `""' != ":" & `":' aux" != "" {
- gettoken COLON after : after, parse(":") bind match(par) quotes
- if "`par'" != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if `"`COLON'"' != ":" {
= else if `":'" != ":" {
    local before `"`before' `COLON'"'
    local COLON
}

```

```

- }
- while `"\`COLON`"" != ":" & `"\`after`"" != "" {
= while `":`" != ":" & `"` aux`" != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if `"\`par`" != "" {
        local before `before` (`COLON')
        local COLON
    }
    else if `"\`COLON`"" != ":" {
        local before `"\`before`" `COLON`"
        local COLON
    }
}
- if `"\`COLON`"" != ":" {
= if `":`" != ":" {
    di as err `"\` found where `":` expected"
    exit 198
}
- sreturn local before `"\`before`"
= sreturn local before `"\`PCAux`"
- sreturn local after `"\`after`"
= sreturn local after `"\` aux`"

```

```
> _____ end _on_colon_pars
> e _____
```

```

- local c_value `"\`s(before)`"
= local c_value `"\`PCAux`"
- local key `"\`s(after)`"
= local key `"\` aux`"
- confirm name `c_value'
= confirm name PCAUX
- mata: st_b_pclass(`"\`list retok key`")"
= mata: st_b_pclass("aux")
- c_local `c_value' `value'
= c_local PCAUX 2

```

```
> _____ end _b_pclas
> s _____
```

```

- tempname pclass
- matrix `pclass' = e(b)
= matrix __00006 = e(b)
- local dim = colsof(`pclass')
= local dim = colsof(__00006)
- matrix `pclass'[1,1] = J(1,`dim','PCDEF')
= matrix __00006[1,1] = J(1,9,0)
- matrix `pclass'[1,`dim'] = `PCAux'

```

```

= matrix __000006[1,9] = 2
- est hidden matrix b_pclass `pclass'
= est hidden matrix b_pclass __000006
- if "`llp'"!=""
= if ""!= ""
    est local chi2_ct "LR"
    est scalar ll_c = `llp'
    if (e(ll) < e(ll_c)) | (_b[/ln`parm'] < -20) {
        est scalar chi2_c = 0
    }
    else est scalar chi2_c = 2*(e(ll)-e(ll_c))
}
- est scalar r2_p = 1 - e(ll)/e(ll_0)
- est scalar k_aux = 1
- est hidden local diparm_opt2 noprobit
- est scalar `parm' = exp(_b[/ln`parm'])
= est scalar alpha = exp(_b[/lnalpha])
- est local disperses "`dispers'"
= est local disperses "mean"
- est local offset "`offvar'"
= est local offset ""
- est local offset1
- est hidden local marginsderiv default N IR
- est local predict "nbreg_p"
- est local cmd "nbreg"
- global S_E_ll = e(ll)
- global S_E_ll0 `e(ll_0)'
= global S_E_ll0 -442.7295221007071
- global S_E_llc `e(ll_c)'
= global S_E_llc
- global S_1 `e(chi2_c)'
= global S_1
- global S_E_chi2 = e(chi2)
- global S_E_mdf = e(df_m)
- global S_E_pr2 `e(r2_p)'
= global S_E_pr2 .1783469504280376
- global S_E_nobs = e(N)
- global S_E_tdf = e(N)
- global S_E_off `e(offset)'
= global S_E_off
- global S_E_depv `e(depvar)'
= global S_E_depv piq_timing_max
- global S_E_cmd `e(cmd)'
= global S_E_cmd nbreg
- if "`display'"==""
= if ""==""

```

```

- Display, `irr' level(`level') `diopts'
= Display, level(95)


---


> _____ begin nbreg.Displa
> y _____
- syntax [, Level(cilevel) IRR *]
- _get_diopts diopts, `options'
= _get_diopts diopts,


---


> _____ begin _get_diopt
> s _____
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAP0
> N(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> s EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cform
> at(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pass
> thru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pass
> thru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive ""


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"' != "" {
= while `""' != "" {
    local ++n

```

```

        gettokent item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettokent item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettokent item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```
- exit
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> _____ end opts_exclusiv
> e _____
```

```

- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while '""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``lstretch' `nolstretch''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while '""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``cnsreport' `fullcnsreport''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```

> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
  local ++n
  gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
  - opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
  local ++n
  gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
  - opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'

```

```

= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev

```

```

- if "`allbaselevels``baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`sformat') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `sformat'
    local sformat `sformat(`sformat")'
}

```

```

    }
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat ```pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width''' fvrapon
= opts_exclusive " " fvrapon

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts''' != "" {
= while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fwrapon `word` `width'
= local fwrapon
- if `:length local fwrapon' {
= if 0 {
    c_local fwrapon fwrapon(`fwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fwrap'' != "" {
= if "" != "" {
    FWWrap, `fwrap'
}
- c_local `c_diopts` `levelopt` `vsquish` `allbaselevels` `baselev
> els` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `coeflege
> nd` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compare` `fv
> wrap` `fwrapon` `fvlabel` `nci` `nopvalues` `markdown` `citype` `abbrev'
= c_local diopts
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts` `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1` `""`diopts"""
= c_local diopts `"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }

```

```

- local S_`sname' = s(`sname')
= local S_after = s(after)
-
- local S_`sname' = s(`sname')
= local S_before = s(before)
-
- local S_`sname' = s(`sname')
= local S_log = s(log)
-
- local S_`sname' = s(`sname')
= local S_deriv = s(deriv)
-
- local S_`sname' = s(`sname')
= local S_namelist = s(namelist)
-
- local S_`sname' = s(`sname')
= local S_optlist = s(optlist)
-
- local S_`sname' = s(`sname')
= local S_k_fill = s(k_fill)
-
- local S_`sname' = s(`sname')
= local S_k = s(k)
-
-sreturn clear
-
- GetDiopts DEFAULT

```

```

> _____ begin _get_diopts.GetDiopt
> s
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAP0
> N(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> s EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cform
> at(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pass
> thru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pass
> thru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive ""

```

```
> _____ begin opts_exclusiv
```

```
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while ```opts```` != "" {  
= while `""` != "" {  
    local ++n  
    gettoken item`n` opts : opts, bind  
}  
- if `n` < 2 {  
= if 0 < 2 {  
- exit  
  
_____ end opts_exclusiv  
> e _____  
- opts_exclusive ``allbaselevels` `nobaselevels``  
= opts_exclusive " "  
  
_____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while ```opts```` != "" {  
= while `""` != "" {  
    local ++n  
    gettoken item`n` opts : opts, bind  
}  
- if `n` < 2 {  
= if 0 < 2 {  
- exit  
  
_____ end opts_exclusiv  
> e _____  
- opts_exclusive ``baselevels` `nobaselevels``  
= opts_exclusive " "  
  
_____ begin opts_exclusiv  
> e _____  
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'
```

```

= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {

```

```

    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```

> e _____
  - opts_exclusive ``noci' `nopvalues''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while ```` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - local K : list sizeof namelist
  - gettoken c_diopts c_opts : namelist
  - opts_exclusive ``coding' `compare''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while ```` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``versus' `compare''
```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts```` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``abbrev' `noabbrev''
  = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts```` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
  - local allbaselevels `allbaselevels' `noallbaselevels'
  = local allbaselevels
  - local baselevels `baselevels' `nobaselevels'
  = local baselevels
  - local emptycells `emptycells' `noemptycells'

```

```

= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels``baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ``cformat''
    local cformat `cformat(`cformat')"
}

```

```

- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat `"sformat(`sformat')''''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat `"pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```
> _____ begin _get_diopts.Wrapo
> n _____
```

```

- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

```
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap''' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `abbrev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' ```options''''
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt

```

```

> s _____
- if `""`name2`""` == "" {
= if `""` == "" {
- GetDiopts DUPS, `options'
= GetDiopts DUPS,
_____
> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAP0
> N(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> s EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cform
> at(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pass
> thru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pass
> thru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv

```

```

> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
  local ++n
  gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
  - opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
  local ++n
  gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
  - opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'

```

```

= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {

```

```

    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - local K : list sizeof namelist  
      - gettoken c_diopts c_opts : namelist  
      - opts_exclusive ``coding' `compare''  
      = opts_exclusive ""  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
      - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``versus' `compare''  
      = opts_exclusive ""  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
      - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``abbrev' `noabbrev''
```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ```allbaselevels```baselevels''' == "" {
= if `''' == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if ```emptycells''' == "" {
= if `''' == "" {
- if c(showemptycells) == "off" {

```

```

    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`"`cformat""') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `"`cformat'"
    local cformat `"cformat(`cformat')"'
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`"`sformat""') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `"`sformat'"
    local sformat `"sformat(`sformat')"'
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"`pformat""') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `"`pformat'"
    local pformat `"pformat(`pformat')"'
}
-
- if `K' == 1 & `:length local options' {

```

```

= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `""`opts""' != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

```

```

> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
  FWWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
= c_local DUPs
- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts' `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95
_____
> _____ end _get_diopts.GetDiopt
> s _____
- }
- else {
  GetDiopts DUPs options, `options'
  c_local `name2' `""`options"""
}
- local DUPs : list DUPs - DEFAULT
- gettoken DUPs : DUPs
- if `""`DUPs""' != "" {
= if `""' != "" {
  if (strpos(`""`DUPs""', "(")) {
    gettoken DUPs : DUPs, parse("(")
    local DUPs `""`DUPs'()"'
  }
  di as err "duplicate {bf:`DUPs'} option not allowed"
  exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = `""`S_`sname""'
= sreturn local level = `"95"

```

```

- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local after = `"aux"
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local before = `"PCAUX "
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local log = `"log"
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local deriv = `"0"
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local namelist = `"cluster"
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local optlist = `"CLuster"
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k_fill = `"9"
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k = `"9"
- }

```

```
> _____ end _get_diopt
> s _____
```

```

- if "`irr'"!=""
= if ""!="
  local eopt "eform(IRR)"
}
- if "`e(dispers)"=="mean" {
= if "mean"=="mean" {
  local parm alpha
}
- else local parm delta
- version 9: ml di, level(`level') `eopt' nofootnote `diopts'
= version 9: ml di, level(95)  nofootnote

```

```
> _____ begin m
> l _____
```

```

- if _caller()>=11 {
  mopt `0'
  exit
}
```

```

- version 8.2, missing
- version 6, missing
- if _caller()<6 {
  ml_5 `0'
  exit
}
- local caller : display string(_caller())
- gettoken cmd 0: 0, parse(", ")
- local l = length(`cmd')
= local l = length(`di')
- if `cmd' == "technique" {
= if `di' == "technique" {
  ml_technique `0'
  exit
}
- if `cmd' == "clear" {
= if `di' == "clear" {
  ml_clear `0'
  exit
}
- if `cmd' == "hold" {
= if `di' == "hold" {
  ml_hold `0'
  exit
}
- if `cmd' == "unhold" {
= if `di' == "unhold" {
  ml_unhold `0'
  exit
}
- if `cmd' == "score" {
= if `di' == "score" {
  if `e(opt)' == "moptimize" {
    mopt score `0'
    exit
  }
  ml_score `0'
  exit
}
- if `cmd' == "count" {
= if `di' == "count" {
  ml_c_d count `0'
  exit
}
- if `cmd' == "trace" {
= if `di' == "trace" {

```

```

ml_c_d trace `0'
exit
}
- if `""`cmd""==bsubstr("graph",1,max(2,`l')) {
= if `"di"''==bsubstr("graph",1,max(2,2)) {
    ml_graph `0'
    exit
}
- if `""`cmd"" == "init" {
= if `"di"'' == "init" {
    ml_init `0'
    exit
}
- if `""`cmd"" == bsubstr("maximize",1,max(3,`l')) {
= if `"di"'' == bsubstr("maximize",1,max(3,2)) {
    version `caller', missing: AllowEv ml_max `0'
    exit
}
- if `""`cmd"" == bsubstr("display",1,max(2,`l')) | `""`cmd"" == bsu
> bstr("mlout", 1,max(3,`l')) {
    = if `"di"'' == bsubstr("display",1,max(2,2)) | `"di"'' == bsubstr("ml
> out", 1,max(3,2)) {
        - if `e(opt)'' == "moptimize" {
        = if "moptimize" == "moptimize" {
        - mopt display `0'
        = mopt display , level(95) nofootnote

```

```

> _____ begin mop
> t _____
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - gettoken subcmd 0 : 0, parse(" ,")
    - local lcnd : length local subcmd
    - if `subcmd'' == "clear" {
    = if "display" == "clear" {
        Clear
        exit
    }
    - if `""`subcmd"" == "hold" {
    = if `"display"'' == "hold" {
        ml_hold `0'
        exit
    }
    - if `""`subcmd"" == "unhold" {
    = if `"display"'' == "unhold" {
        ml_unhold `0'
```

```

    exit
}
- if "`subcmd'" == "score" {
= if "display" == "score" {
    if _caller() > 12 {
        `vv' Score `0'
    }
    else {
        Score `0'
    }
    exit
}
- if "`subcmd'" == "count" {
= if "display" == "count" {
    Count `0'
    exit
}
- if "`subcmd'" == "trace" {
= if "display" == "trace" {
    Trace `0'
    exit
}
- if "`subcmd'" == bsubstr("graph",1,max(2,`lcmd')) {
= if "display" == bsubstr("graph",1,max(2,7)) {
    Graph `0'
    exit
}
- if "`subcmd'" == "init" {
= if "display" == "init" {
    Interactive 0
    `vv' Init `0'
    exit
}
- if "`subcmd'" == bsubstr("maximize",1,max(3,`lcmd')) {
= if "display" == bsubstr("maximize",1,max(3,7)) {
    Interactive 1
    `vv' MaxMin maximize `0'
    exit
}
- if "`subcmd'" == bsubstr("minimize",1,max(3,`lcmd')) {
= if "display" == bsubstr("minimize",1,max(3,7)) {
    Interactive 1
    `vv' MaxMin minimize `0'
    exit
}
- if "`subcmd'" == bsubstr("display",1,max(2,`lcmd')) {

```

```

= if "display" == bsubstr("display",1,max(2,7)) {
- Display `0'
= Display , level(95) nofootnote


---


> _____ begin mopt.Displa
> y _____
- if !inlist(`e(opt)''", "ml", "moptimize") {
= if !inlist("moptimize", "ml", "moptimize") {
  error 301
}
- if "`e(svyml)'" != "" | "`e(prefix)'" == "svy" {
= if "" != "" | "" == "svy" {
  _prefix_display `0'
  exit
}
- syntax [, Level(cilevel) PLus noHeader First SHOWEQns NEQ(inte
> ger -1) noFOOTnote NOSKIP TITle(passthru) NOTEST *
- if "`plus'" != "" {
= if "" != "" {
  local footnote nofootnote
}
- if `neq' >= 0 {
= if -1 >= 0 {
  local neqopt neq(`neq')
}
- _get_diopts diopts options, `options'
= _get_diopts diopts options,


---


> _____ begin _get_diopt
> s _____
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]

```

```

= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    ----- end opts_exclusiv
> e -----
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
    ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    ----- end opts_exclusiv
> e -----
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    ----- begin opts_exclusiv
> e -----
    - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci` `nopvalues`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding` `compare`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fvlabel `fvlabel` `nofvlabel'
= local fvlabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
  local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
  local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
  local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
  local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
  local lstretch nolstretch
}
- }

```

```

- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ````cformat''''
    local cformat ```cformat(`cformat')''''
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(````sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat ```sformat(`sformat')''''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat ```pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
```

```

syntax [, WOrd WIdth]
exit 198
}
- opts_exclusive ``word' `width''' fvrapon
= opts_exclusive " " fvrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fvrapon `word' `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if ```fwrap''' != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwrap' `fvrapon' `fvlabel' `nocI' `nopvalues' `markdown' `citype' `abb
> rev'
    = c_local diopts
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' ```options'''
```

```

= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95
_____
> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1` `""`diopts"""
= c_local diopts `"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_k = s(k)
- }
- local S_`sname' = s(`sname')
= local S_k_fill = s(k_fill)
- }
- local S_`sname' = s(`sname')
= local S_optlist = s(optlist)
- }
- local S_`sname' = s(`sname')
= local S_namelist = s(namelist)
- }
- local S_`sname' = s(`sname')
= local S_deriv = s(deriv)
- }
- local S_`sname' = s(`sname')
= local S_log = s(log)
- }
- local S_`sname' = s(`sname')
= local S_before = s(before)
- }
- local S_`sname' = s(`sname')
= local S_after = s(after)
- }
- sreturn clear
- GetDiopts DEFAULT

```

```

> _____ begin _get_diopts.GetDiopt
> s _____
  - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
  - syntax namelist(max=2) [, `DIOPTS' *]
  = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
  - opts_exclusive "`allbaselevels' `noallbaselevels'"
  = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts""' != "" {
  = while `""' != "" {
    local ++
    gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
      - exit

```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive "`allbaselevels' `nobaselevels'"
  = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts

```

```

- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``lstretch' `nolstretch''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``cnsreport' `fullcnsreport''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
```

```

- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``noci' `nopvalues''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`versus' `compare'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`abbrev' `noabbrev'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fylabel `fylabel` `nofylabel'
= local fylabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {

```

```

- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')'''
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `pformat(`pformat')'''
}
-
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {

```

```

        local levelopt level(`level')
    }
- Wrapon , `fvrapon'
= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvrapon
= opts_exclusive " " fvrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != ""' {
= while `""' != ""' {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'" != ""' {
= if "" != ""' {
    FVWrap, `fvwrap'

```

```

        }
        - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
        = c_local DEFAULT
        - if `K' == 2 {
        = if 1 == 2 {
            c_local `c_opts' `""`options"""
            }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
        - if `""`name2""` == ""` {
        = if `""`options""` == ""` {
            GetDiopts DUPs, `options'
            }
        - else {
        - GetDiopts DUPs options, `options'
            = GetDiopts DUPs options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
        - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> WRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
        - syntax namelist(max=2) [, `DIOPTS' *]
            = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
            - opts_exclusive "`allbaselevels' `noallbaselevels`"

```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`omitted` `noomitted`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`lstretch` `nolstretch`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `"""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `"""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``versus' `compare''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
  _____ end opts_exclusiv
> e _____
  - opts_exclusive ``abbrev' `noabbrev''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
  _____ end opts_exclusiv
> e _____
  - local allbaselevels `allbaselevels' `noallbaselevels'
  = local allbaselevels

```

```

- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
}

```

```

sreturn local cformat `""`cformat"""
local cformat `"cformat(`cformat')"""
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`""`sformat""') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `""`sformat"""
    local sformat `"sformat(`sformat')"""
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`""`pformat""') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
    local pformat `"pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
    = opts_exclusive " " fvwrapon

```

```
> _____ begin opts_exclusiv
```

```

> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n` opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }

> ----- end opts_exclusiv
> e -----
    - local fwrapon `word` `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }

> ----- end _get_diopts.Wrapo
> n -----
    - if ""`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts` `leveLOPT` `vsquish` `allbaselevels` `b
> aselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `co
> eflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compar
> e` `fwrap` `fwrapon` `fvlabel` `nocI` `nopvalues` `markdown` `citype` `abb
> rev'
    = c_local DUPS
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts` `""`options`"""
        = c_local options `"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'

```

```

= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name2` ``options``
= c_local options `"""
- }
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if `""`DUPS`"" != """
= if `"""` != """
if (strpos(`""`DUPS`""", "(")) {
gettoken DUPS : DUPS, parse("(")
local DUPS `""`DUPS`()""
}
di as err "duplicate {bf:`DUPS`} option not allowed"
exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local level = `""95"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local k = `""9"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local k_fill = `""9"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local optlist = `""CLuster"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local namelist = `""cluster"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local deriv = `""0"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local log = `""log"""
- }
- sreturn local `sname` = `""`S_`sname`"""
= sreturn local before = `""PCAUX """
- }

```

```

- sreturn local `sname' = `""`$_`sname"""
= sreturn local after = `"aux"
- }



---


> _____ end _get_diopt
> s _____
- _get_eformopts , eformopts(`options') soptions allowed(_all_
> )
= _get_eformopts , eformopts() soptions allowed(_all_)


---


> _____ begin _get_eformopt
> s _____
- version 8.0
- syntax [, eformopts(string asis) soptions ALLOWed(string) ]
- local 0 , `eformopts'
= local 0 ,
- local EFALL NOHR hr NOSHR shr or IRR RRr tr TRatio
- if "`soptions'" != "" {
= if "soptions" != "" {
- syntax [, EForm1(passthru) EForm `EFALL' * ]
= syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio * ]
- local opts `"`options"""
= local opts `"""
- local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or' `i
> rr' `rrr' `tr' `tratio'
= local 0 ,
- }
- if "`allowed'" == "__all__" {
= if "__all__" == "__all__" {
- local allowed `EFALL'
= local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
- }
- foreach ef of local allowed {
- capture confirm name `ef'
= capture confirm name NOHR
- if _rc {
- di as err "`ef' is not a valid name"
exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr
- }
- capture confirm name `ef'
= capture confirm name hr
- if _rc {

```

```

        di as err "`ef' is not a valid name"
        exit 198
    }
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr
- }
- capture confirm name `ef'
= capture confirm name NOSHR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr
- }
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr
- }
- capture confirm name `ef'
= capture confirm name or
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or
- }
- capture confirm name `ef'
= capture confirm name IRR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr
- }
- capture confirm name `ef'
= capture confirm name RR
- if _rc {
    di as err "`ef' is not a valid name"

```

```

        exit 198
    }
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr
- }
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr
- }
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr tratio
- }
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RRr
> tr TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }

```

```

- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- if ```eform1'''=="Odds ratio" {
= if `'''=="Odds ratio" {
    local eform_cons_ti = "Odds"
    local eform_cons_note = "odds ratios"
}
- else if ```eform1'''=="Haz. ratio" {
= else if `'''=="Haz. ratio" {
    local eform_cons_ti = "Hazard"
    local eform_cons_note = "hazard ratios"
}
- else if ```eform1'''=="Time ratio" {
= else if `'''=="Time ratio" {
    local eform_cons_ti = "Time"
    local eform_cons_note = "time ratios"
}
- else if ```eform1'''=="IRR" {
= else if `'''=="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_ti2 = "incidence rate"
}
- else if ```eform1'''=="Risk ratio" {
= else if `'''=="Risk ratio" {
    local eform_cons_ti = "Risk"
    local eform_cons_note = "risk ratios"
}
- else if ```eform1'''=="Hlth ratio" {
= else if `'''=="Hlth ratio" {
    local eform_cons_ti = "Health"
    local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {
= if 0 {
    opts_exclusive ``eform''
    if `:length local eform1' {
        opts_exclusive "eform() `eform''"

```

```

        }
    }
- if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
    else if ("`eform'"=="tr") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="tratio") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="or") {
        local eform1 = "Odds ratio"
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local eform_cons_ti = "Rel. risk"
            local eform_cons_note = "relative-risk ratios"
            local eform_cons_ti2 = "relative risk"
        }
        else {
            local eform_cons_ti = "Odds"
            local eform_cons_note = "odds ratios"
        }
    }
    else if ("`eform'"=="irr") {
        local eform1 = "IRR"
        local eform_cons_ti = "Inc. rate"
        local eform_cons_note = "incidence-rate ratios"
        local eform_cons_ti2 = "incidence rate"
    }
    else if ("`eform'"=="rrr") {
        local eform1 = "RRR"

```

```

local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_ti2 = "relative risk"
}
else if (`eform'!="nohr") & (`eform'!="noshr") {
local eform1 = upper(`eform')
}
}
-s return clear
-s return local options `""`opts"""
=s return local options `"""
-s return local opt `eform'
=s return local opt
-s return local str `eform1'
=s return local str
-s if `""`eform1"" != "" {
=s if `""` != "" {
sreturn local eform eform(`""`eform1""")
}
-s else sreturn local eform """
-s return local eform_cons_ti `eform_cons_ti'
=s return local eform_cons_ti
-s return local eform_cons_note `eform_cons_note'
=s return local eform_cons_note
-s return local eform_cons_ti2 `eform_cons_ti2'
=s return local eform_cons_ti2


---


> _____ end _get_eformopt
> s _____
    - local eform `s(eform)'
    = local eform
    - local diparm `s(options)'
    = local diparm
    - _get_diparmopts , diparmopts(`diparm') level(`level')
    = _get_diparmopts , diparmopts() level(95)


---


> _____ begin _get_diparmopt
> s _____
    - if _caller() < 8.2 {
        _get_diparmopts_8 `0'
        exit
    }
    - version 9
    - local version : di "version " string(_caller()) ":""
    - syntax [, diparmopts(string asis) EXECute soptions bottom pl
> us SYNTAXonly * ]

```

```

- local goptions `options'
= local goptions level(95)
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk , level(95)


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
- syntax name(id="macro name" name=c_diparm) [, diparm(string
> g asis) Level(cilevel) dof(passthru) syntaxonly ]
- if `"`dof`"" == "" & `"`e(df_r)`"" != "" {
= if `""` == "" & `""` != "" {
    capture confirm integer number `e(df_r)'
    if !c(rc) {
        local gdof dof(`e(df_r)')
    }
    capture
}
- else local gdof `"`dof`"""
= else local gdof `""`"
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (`"`diparm`"" == "") exit
= if (`""` == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts`"""
= local 0 `", ""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while `"`diparm`"" != "" {
= while `""` != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm `"`s(before)`"""
        local after `"`s(after)`"""
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptio

```

```

> ns'
    local diparm`k' `""`diparm"""
    local diparmopts `""`diparmopts' : `diparm"""
    if `single' | `":list retok after""' == "" {
        local 0 `", `options"""
        syntax [, diparm(string asis) * ]
    }
    else {
        local diparm `""`after"""
    }
    -
    - if `""`soptions""' == "" {
    = if `""' == "" {
        - syntax [, diparm(string asis) ]
        -
        - if (`execute'" == "") {
        = if ("" == "") {
            - sreturn clear
            - sreturn local options `""`options"""
            = sreturn local options `"""
            - sreturn local diparm `""`diparmopts"""
            = sreturn local diparm `"""
            - forval i = 1/`k' {
            = forval i = 1/0 {
                sreturn local diparm`i' `""`diparm`i"""
            }
            - sreturn local k `k'
            = sreturn local k 0
            - exit
    }



---


> _____ end _get_diparmopt
> s _____
    - if "`header'"==""
    = if ""==""
    - _coef_table_header, `title'
    = _coef_table_header,


---


> _____ begin _coef_table_head
> r _____
    - version 9
    - if !c(noisily) {
        exit
    }
    - syntax [, rclass noHeader obj(string) head1left(numlist max=
> 1 integer >=0) head1right(numlist max=1 integer >=0) head2left(numlist max=1
> integer >=0) head2right(numlist max=1 integer >=0) head2start(numlist max=1

```

```

> integer >=1) width(numlist max=1 integer >=1) * ]
  - if ("`header'" != "") exit
  = if ("" != "") exit
  - if ("`head2start'" != "" & "`width'" != "") {
  = if ("" != "" & "" != "") {
    opts_exclusive "head2start() width()"
    exit 198
  }
  - local has_obj = (`"`obj'"' != "")
  = local has_obj = (`""' != "")
  - if (`has_obj' == 0) {
  = if (0 == 0) {
    - tempfile obj
  }
  - if ("`rclass'" != "") {
  = if ("" != "") {
    tempfile rhold
    _return hold `rhold'
  }
  - `.`obj' = ._coef_table_header.new, `rclass' `options'
  = ._000007 = ._coef_table_header.new,
  -class _coef_table_header {
    -      string result      = "e"
    -      string newline      = "display"
    -      double opt_dvheader = 0
    -      double opt_modeltest = 0
    -      double opt_cluster   = 0
    -      double opt_rules     = 0
    -      double opt_tvar      = 0
    -      double opt_septitle  = 0
    -      double linesize      = 0
    -      string title        = ""
    -      string title2       = ""
    -      string groupvar     = ""
    -      string intmethod    = ""
    -      double intpoints    = -1
    -      string cmd          = ""
    -      string cmd2         = ""
    -      string prefix        = ""
    -      double is_prefix     = 0
    -      double is_svy        = 0
    -      double is_margins    = 0
    -      double is_gsem        = 0
    -      double is_gsem_group  = 0
    -      double is_sem        = 0
    -      double is_areg       = 0
  }

```

```

-
-      double  is_demand      = 0
-
-      double  is_demandn     = 0
-
-      double  is_bacon       = 0
-
-      double  is_htedid      = 0
-
-      double  is_sum          = 0
-
-      double  is_tab          = 0
-
-      double  is_r2_p         = 1
-
-      double  is_multclust    = 0
-
-      double  is_stintcox     = 0
-
-      double  is_bmareg       = 0
-
-      double  prop_pushtitle  = 0
-
-      double  prop_groupvar   = 0
-
-      double  prop_censlimits = 0
-
-      double  prop_censored   = 0
-
-      double  prop_nuncensored = 0
-
-      double  prop_isselected  = 0
-
-      double  prop_selected    = 0
-
-      double  prop_groups      = 0
-
-      double  prop_balance     = 0
-
-      double  ablen           = 16
-
-      double  width            = 78
-
-      double  c1               = 1
-
-      double  c2               = 16
-
-      double  c2a              = 16
-
-      double  c3               = 49
-
-      double  c4               = 67
-
-      double  c2wfmt           = 10
-
-      double  c4wfmt           = 10
-
-      string  scheme            = "ml"
-
-      double  lalignr           = 0
-
-      double  ralignr           = 0
-
-      double  lalignl           = 0
-
-      double  ralignl           = 0
-
-      double  lalignla          = 0
-
-      double  ralignla          = 0
-
-      array   left
-
-      array   right
-
-}

```

```

> ----- begin _coef_table_header.ne
> w -----
- version 16
- syntax [, rclass noDVHeader noMODELtest TItle(string asis)
> nocluster noRULES noTVar SEPTITLE linesize(int 0) ]
- if "`rclass'" != "" {
= if "" != "" {

```

```

    .result = "r"
}
- if "`dvheader'" == "" {
= if "" == "" {
- .opt_dvheader = 1
- }
- if "`modeltest'" == "" {
= if "" == "" {
- .opt_modeltest = 1
- }
- if "`cluster'" == "" {
= if "" == "" {
- .opt_cluster = 1
- }
- if "`rules'" == "" {
= if "" == "" {
- .opt_rules = 1
- }
- if "`tvar'" == "" {
= if "" == "" {
- .opt_tvar = 1
- }
- if "`septitle'" != "" {
= if "" != "" {
    .opt_septitle = 1
}
- .linesize = `linesize'
= .linesize = 0
- .title = `"`title`"'
= .title = `""'
- if `"` .result`"' == "e" {
= if ``e`"' == "e" {
- .New4e

```

```

> _____ begin _coef_table_header.New4
> e _____
    - version 16
    - .cmd = "`e(cmd)'"
= .cmd = "nbreg"
- .cmd2 = "`e(cmd2)'"
= .cmd2 = ""
- .prefix = "`e(prefix)'"
= .prefix = ""
- if `"` .prefix`"' != "" {
= if `""` != "" {
    .is_prefix = 1

```

```

        }
- if "`.prefix'" == "svy" {
= if "" == "svy" {
    .is_svy = 1
}
- if "`.cmd'" == "margins" {
= if "nbreg" == "margins" {
    .is_margins = 1
}
- if inlist("`.cmd'", "contrast", "pwcompare") {
= if inlist("nbreg", "contrast", "pwcompare") {
    if "`.cmd2'" == "margins" {
        .is_margins = 1
    }
}
- if "`.cmd'" == "gsem" | "`.cmd2'" == "gsem" {
= if "nbreg" == "gsem" | "" == "gsem" {
    .is_gsem = 1
}
- if "`.cmd'" == "sem" {
= if "nbreg" == "sem" {
    .is_sem = 1
}
- if "`.cmd'" == "areg" {
= if "nbreg" == "areg" {
    .is_areg = 1
}
- if ("`.cmd'" == "demandsys" & `e(doheader)'"=="yes")
> {
= if ("nbreg" == "demandsys" & `""'"=="yes") {
    .is_demand = 1
}
- if ("`.cmd'" == "demandsys") {
= if ("nbreg" == "demandsys") {
    .is_demandn = 1
}
- if ("`.cmd'" == "xthdidregress" & `e(inestat)'"=="") {
= if ("nbreg" == "xthdidregress" & ""=="") {
    .is_htedid = 1
}
- if "`.cmd'" == "stintcox" {
= if "nbreg" == "stintcox" {
    .is_stintcox = 1
}
- if "`.cmd'" == "bdecomp" {
= if "nbreg" == "bdecomp" {

```

```

    .is_bacon = 1
}
- if ` `.cmd` == "bmaregress" {
= if "nbreg" == "bmaregress" {
    .is_bmareg = 1
}
- is_svysum ` `.cmd'
= is_svysum nbreg


---


> _____ begin is_svysu
> m _____
    - version 9
    - local SvySum mean prop proportion ratio total
    - if ` ``0`` != "" & ` :list 0 in SvySum' {
= if ` ``nbreg`` != "" & 0 {
    return scalar is_svysum = 1
}
- else return scalar is_svysum = 0


---


> _____ end is_svysu
> m _____
    - .is_sum = r(is_svysum)
    - if ` .is_svy' {
= if 0 {
    if ` `.cmd` == "tabulate" {
        .is_tab = 1
    }
}
- if ` .is_gsem' {
= if 0 {
    if ` ``e(groupvar)` != "" & ` `.cmd2` == "" {
        .is_gsem_group = 1
    }
}
- local clustvars ` e(clustvar)'
= local clustvars
- local kclvar : list sizeof clustvars
- .is_multclust = ((` kclvar' > 1) & ("` e(kcluster)` == "matrix"
> x"))
= .is_multclust = ((0 > 1) & (" == "matrix"))
- if ` .is_multclust' {
= if 0 {
    .prop_pushtitle = 1
}
- local c2pfix 20
- if ` .is_sem' | ` .is_gsem_group' {

```

```

= if 0 | 0 {
    local crlen `"`e(crittype)`""
    local crlen : smcllength local crlen
    if `crlen' >= `c2pfix' {
        local c2pfix = `crlen' + 2
    }
}
-
= if `is_sum' {
= if 0 {
    if `linesize' > 62 {
        local offset = `linesize' - 62
    }
    else local offset 0
    .width = 62 + `offset'
    .c2 = 18
    .c3 = 35 + `offset'
    .c4 = 51 + `offset'
    .c2wfmt = 7
    .c4wfmt = 10
    .scheme = "compact"
}
-
= else if `is_prefix' | `is_sem' | `is_gsem_group' {
= else if 0 | 0 | 0 {
    .width = 78
    .c2 = `c2pfix'
    .c3 = 49
    .c4 = 67
    .c2wfmt = 9
    .c4wfmt = 10
    .scheme = "svy"
}
-
= if `is_svy' {
= if 0 {
    local maxlen = `width'-`c2'-(`c2wfmt'+2)-2-(`c4'-`c
> 3')-2
        if `maxlen' > 19 {
            local maxlen 19
        }
        local len : display %`maxlen'.0fc e(N_pop)
        local len : list retok len
        local len : length local len
        local ++maxlen
        local ++len
        if `c4wfmt' <= `len' & `len' <= `maxlen' {
            .c3 = `c3' + `c4wfmt' - `len'
            .c4 = `c4' + `c4wfmt' - `len'
}

```

```

        .c4wfmt = `len'
    }
}



---


> _____ end _coef_table_header.New4
> e _____
- }
- else {
    .New4r
}
- local props ```.Macro _coef_table_props```


---


> _____ begin _coef_table_header.Macr
> o _____
- version 16
- class exit ```.result(`0')```
= class exit `"""


---


> _____ end _coef_table_header.Macr
> o _____
= local props `"""
- if `is_sem' | `is_gsem_group' | `:list posof "pushtitle"
> in props' {
    = if 0 | 0 | 0 {
        .prop_pushtitle = 1
    }
    - if (`is_demand' | `is_htedid') {
    = if (0| 0) {
        .prop_pushtitle = 1
    }
    - if (`is_bmareg') {
    = if (0) {
        .prop_pushtitle = 1
    }
    - if `is_sem' | `is_gsem_group' | `:list posof "groupvar"
> in props' {
    = if 0 | 0 | 0 {
        .prop_groupvar = 1
    }
    - local list tobit cpoisson ivtobit metobit xttobit
    - local list2 metobit
    - if `:list posof ``.cmd'' in list' | `:list posof ``.cmd2''
> in list2' | `:list posof "censlimits" in props' {
    = if 0 | 0 | 0 {
        .prop_censlimits = !missing(e(N_unc))
    }

```

```

- local list intreg tobit cpoisson ivtobit eintreg xtintreg
> xttobit
    - local list2 meintreg metobit stintreg
    - if `:list posof ``.cmd'' in list' | `:list posof ``.cmd2''
> in list2' | `:list posof "censored" in props' {
    = if 0 | 0 | 0 {
        .prop_censored = !missing(e(N_unc))
    }
    - if `:list posof "nuncensored" in props' {
    = if 0 {
        .prop_nuncensored = 1
    }
    - local list eintreg
    - if `:list posof ``.cmd'' in list' | `:list posof "iselecte
> d" in props' {
    = if 0 | 0 {
        .prop_iselected = 1
    }
    - local list eregress eprobit eoprobit
    - if `:list posof ``.cmd'' in list' | `:list posof "selected
> " in props' {
    = if 0 | 0 {
        .prop_selected = 1
    }
    - if `:list posof "groups" in props' {
    = if 0 {
        .prop_groups = 1
        .groupvar = "`e(repanvar)'"
        .intmethod = "`e(reintmethod)'"
        .intpoints = e(reintpoints)
    }
    - local list xtreg xtprobit xtlogit xtcloglog xtfrontier xti
> ntreg xtnbreg
    - local list `list' xtpoisson xttobit xtmlogit xtrc
    = local list xtreg xtprobit xtlogit xtcloglog xtfrontier xti
> ntreg xtnbreg xtpoisson xttobit xtmlogit xtrc
    - local list2 xtlogit xtoprobit xtologit xtmlogit
    - if `:list posof ``.cmd'' in list' | `:list posof ``.cmd2''
> in list2' {
    = if 0 | 0 {
        .prop_groups = 1
        .groupvar = "`e(ivar)'"
        .intmethod = "`e(intmethod)'"
        .intpoints = e(n_quad)
    }
    - if ``.cmd'' == "xtreg" | ``.cmd2'' == "xtlogit" {

```

```

= if "nbreg" == "xtreg" | "" == "xtlogit" {
    .is_r2_p = 0
}
- if `:list posof "balance" in props' {
= if 0 {
    .prop_balance = 1
}
- .left = {}
- .right = {}

> _____ end _coef_table_header.ne
> w _____
- if ("`rclass'" != "") {
= if ("" != "") {
    _return restore `rhold'
.`obj'.New4r
}
- if ("`head1left'" != "") {
= if ("" != "") {
    .`obj'.lalignla = `head1left'
}
- if ("`head1right'" != "") {
= if ("" != "") {
    .`obj'.ralignla = `head1right'
}
- if ("`head2left'" != "") {
= if ("" != "") {
    .`obj'.lalignr = `head2left'
}
- if ("`head2right'" != "") {
= if ("" != "") {
    .`obj'.ralignr = `head2right'
}
- if ("`width'" != "") {
= if ("" != "") {
    .`obj'.width = `width'
}
- .`obj'.build
= .__000007.build

> _____ begin _coef_table_header.buil
> d _____
- version 16
- if `"` .title'"' == "" {
= if `""' == "" {
- .title = `"` .Macro title'"'

```

```

> _____ begin _coef_table_header.Macr
> 0 _____
  - version 16
  - class exit ````.result`(`0')"""
  = class exit `"Negative binomial regression"`



---


> _____ end _coef_table_header.Macr
> 0 _____
  = .title = `"Negative binomial regression"`
  - .title2 = ````.Macro title2"""



---


> _____ begin _coef_table_header.Macr
> 0 _____
  - version 16
  - class exit ````.result`(`0')"""
  = class exit `""`



---


> _____ end _coef_table_header.Macr
> 0 _____
  = .title2 = `"""
  -
  - if `.`is_areg' {
  = if 0 {
    local absvar = abbrev(`e(absvar)`, 22)
    .title2 = "Absorbed variable: {res:`absvar'}"
  }
  - if `.`prop_pushtitle' {
  = if 0 {
    if `.`is_svy' & ("`.cmd'" == "clogit" | "`.cmd'" == "xtmlog
> it" | "`.cmd2'" == "xtmlogit") {
      }
      else if `.`is_stintcox' | `.`is_bmareg' {
        .PushLeft ````.title"""
        .PushLeft ````.title2"""
        .title = """
        .title2 = """
      }
      else {
        .PushLeft ````.title"""
        if `.`is_areg' {
          .PushLeft ````.title2"""
        }
        .title = """
        .title2 = """
      }
    }
  }

```

```

}
- if `.`prop_groupvar' | `.`is_gsem_group' {
= if 0 | 0 {
    local groupvar `""`Macro groupvar"""
    if (`""`groupvar"" != "" & `.`is_stintcox') {
        local s = cond(`:word count `groupvar'>1, "s", "")
        local grpvar = abbrev(`groupvar", `ablen')
        .PushLeft "Strata variable`s': {res}`grpvar"
    }
    else if `""`groupvar"" != "" {
        local grpvar = abbrev(`groupvar", `ablen')
        .PushLeft "Grouping variable: {res}`grpvar"
    }
}
- if (`.`is_stintcox') {
= if (0) {
    .PushLeft """
    local ndep = e(k_dv)
    if (`ndep'==2) {
        tokenize `e(depvar)'
        local ltime `1'
        local rtime `2'
        .PushLeft "Event-time interval:"
        .PushLeft " Lower endpoint: {res}`ltime"
        .PushLeft " Upper endpoint: {res}`rtime"
        if "`e(strata)' != "" {
            .PushLeft """
        }
    }
    else {
        .PushLeft "ID variable: {res}`e(id)"
        .PushLeft "Examination time: {res}`e(depvar)"
        .PushLeft "Status indicator: {res}`e(status)"
    }
}
- if `.`is_svy' {
= if 0 {
    .BuildLeft4svy
}
- else if `.`is_prefix' {
= else if 0 {
    if !`.`is_margins' {
        .Build4strata
    }
}
- if (`.`is_tab' | `.`is_sum') & !missing(`.result'(N_stdize))

```

```

> {
    = if (0 | 0) & !missing(e(N_stdize)) {
        .PushLeft "N. of std strata" " = " "as res" %`c2wfmt'.0fc
> `.result'(N_stdize)
    }
    - .Build4tvar


---


> _____ begin _coef_table_header.Build4tva
> r _____
    - version 16
    - if `.`opt_tvar' == 0 {
        = if 1 == 0 {
            exit
        }
        - if ``Macro tvar'' == "" {


---


> _____ begin _coef_table_header.Macr
> o _____
    - version 16
    - class exit ````.result'(`0')```
    = class exit `"""


---


> _____ end _coef_table_header.Macr
> o _____
    = if "" == "" {
    - exit


---


> _____ end _coef_table_header.Build4tva
> r _____
    - if (!missing(`.Scalar N') & `.`is_demandn'==0 & `.`is_bmare
> g') {


---


> _____ begin _coef_table_header.Scala
> r _____
    - version 16
    - class exit ```=.result'(`0')```
    = class exit `218``


---


> _____ end _coef_table_header.Scala
> r _____
    = if (!missing(218) & 0==0 & !0) {
    - .PushRight "Number of obs" " = " "as res" %`c4wfmt'.0fc `
> `.Scalar N'


---


> _____ begin _coef_table_header.Scala
> r _____

```

```

- version 16
- class exit `""= `.result`(`0')"""
= class exit `"218"""

> _____ end _coef_table_header.Scala
> r _____
= .PushRight "Number of obs" " = " "as res" %10.0fc 218
_____
> _____ begin _coef_table_header.PushRigh
> t _____
- version 16
- gettok tok rest : 0
- gettok eq rest : rest
- gettok dias rest : rest
- if `:length local rest' {
= if 12 {
- local direst = ustrltrim(`: di `rest""")
= local direst = ustrltrim("      218")
- .ralignr = max(`.ralignr', udstrlen(`direst"))
= .ralignr = max(0, udstrlen("218"))
- local len : di `""tok"""
= local len : di `"Number of obs"
- local len : smclength local len
- .lalignr = max(`.lalignr', `len')
= .lalignr = max(0, 13)
- .right.Arrpush `\`C3' `"{lalign `\`.lalignr':`tok'}""`\`.
> C4' `eq` `dias' `"{ralign `\`.ralignr':`direst'}"
= .right.Arrpush `\`C3' `"{lalign `.`lalignr':Number of obs}"
> "" `.`C4' " = " as res `"{ralign `.`ralignr':218}"
- }
- else if `:length local tok' {
= else if 13 {
- .right.Arrpush `\`C3' `""`tok"""
}
- else {
- .right.Arrpush
}

_____
> _____ end _coef_table_header.PushRigh
> t _____
- }
- if `.`is_demandn' {
= if 0 {
if (e(N_estat_dsys)==.|"`e(N_estat_dsys)`""==") {
- PushRight "Number of obs" " = " "as res" %`c4wfmt'.0fc `

> .Scalar N'

```

```

        }
    else {
        .PushRight "Number of obs" " = " "as res" %`c4wfmt'.0fc e
> (N_estat_dsys)
    }
}
-
- if `is_demand' {
= if 0 {
    .PushRight "Number of goods" " = " "as res" %`c4wfmt'.0fc
> e(n_goods)
    .PushLeft "Expenditure variable: {result:`e(expenditures)'"
> }"
}
-
- if `is_demand' {
= if 0 {
    if (`e(piconstant)'"!="") {
        .PushRight "Price index constant" " = " "as res" %`c2wfmt
> '.4gc e(piconstant)
    .PushLeft ""
}
if (e(n_demos)>0) {
    local scaling = strproper(`e(demo_type)')
    .PushLeft `Demographic method: {text:`scaling'}"
    .PushRight "Number of demographics" " = " "as res" %`c2wf
> mt'.0fc e(n_demos)
}
.PushLeft ""
local rsquare = strproper(`e(r2_type)')
.PushLeft `rsquare' R2 of model for"
local kdem = e(k_eq_old) + 1
local labels `e(labels)'
forvalues i=1/`kdem' {
    if (`labels'"=="') {
        .PushLeft " Good `i'" " = " "as res" %`c2wfmt'.4f e(r2_
> i')
    }
else {
    local xdm: word `i' of `labels'
    .PushLeft " `xdm'" " = " "as res" %`c2wfmt'.4f e(r2_`i')
}
}
.PushLeft ""
}
-
- if `is_bacon' {
= if 0 {
    .PushLeft "ATET" " = " "as res" %`c2wfmt'.0g `e(atet)'

```

```

        .PushRight "Number of groups" " = " "as res" %`c4wfmt'.0f
> c `e(N_groups)'
        .PushRight "Number of cohorts" " = " "as res" %`c4wfmt'.0
> fc `e(N_timing)'
    }
- if `is_bmareg' {
= if 0 {
    local heredlab = proper(`e(heredity)')
    .PushLeft "`e(sampling_lab)'"
    if "`heredlab'" != "" {
        .PushLeft "Heredity: {txt}`heredlab'"
        if !missing(e(burnin)) {
            .PushLeft ""
        }
    }
    else if !missing(e(burnin)) {
        .PushLeft ""
        .PushLeft ""
    }
    .PushLeft ""
    .PushLeft "Priors:"
    .PushLeft " Models: {txt}`e(mprior_lab)'"
    .PushLeft " Cons.: Noninformative"
    .PushLeft " Coef.: Zellner's g"
    .PushLeft " g: {txt}`e(gprior_lab)'"
    .PushLeft " sigma2: Noninformative"
    if !missing(e(burnin)) {
        .PushLeft
        .PushLeftRalign "{help j_bmaregress_sampcorr:Sampling corr
> elation}" " = " "as res" %`c4wfmt'.4f e(sampcorr)
    }
    .PushRight "No. of obs" " = " "as res" %`c4wfmt'.0fc `Sc
> alar N'
        .PushRight "No. of predictors" " = " "as res" %`c4wfmt'.0
> fc e(p)
        .PushRightRalign "Groups" " = " "as res" %`c4wfmt'.0fc e(
> p_groups)
        .PushRightRalign "Always" " = " "as res" %`c4wfmt'.0fc e(
> p_always)
        .PushRight "No. of models" " = " "as res" %`c4wfmt'.0fc e
> (k_models)
        .PushRightRalign "For CPMP >= .9" " = " "as res" %`c4wfmt
> '.0fc e(k_models_cpmp)
        .PushRight "Mean model size" " = " "as res" %`c4wfmt'.3f
> e(msize_mean)
        if !missing(e(burnin)) {

```

```

    .PushRight "Burn-in" " = " "as res" %`c4wfmt'.0fc e(burni
> n)
    .PushRight "MCMC sample size" " = " "as res" %`c4wfmt'.0f
> c e(mcmcsize)
    .PushRight "Acceptance rate" " = " "as res" %`c4wfmt'.4f
> e(arate)
}
else {
if ``heredlab'' != "" {
.PushRight
}
.PushRight
}
if !missing(e(shrinkage)) {
.PushRight "Shrinkage, g/(1+g)" " = " "as res" %`c4wfmt'.
> 4f e(shrinkage)
}
else {
.PushRight ""
}
if (e(sigma2) < 1e-3) {
local sigfmt 8.4g
}
else {
local sigfmt `c4wfmt'.3f
}
.PushRight "Mean sigma2" " = " "as res" %`sigfmt' e(sigma2
> )
}
- if `is_htedid' {
= if 0 {
.PushRight "Number of panels" " = " "as res" %`c4wfmt'.0f
> c e(N_panels)
}
- if !missing(`Scalar N_sub') & `is_stintcox' {


---


> _____ begin _coef_table_header.Scala
> r _____
- version 16
- class exit `""= `result'(`0')"""
= class exit `""."


---


> _____ end _coef_table_header.Scala
> r _____
= if !missing(.) & 0 {
.PushRight "Number of subjects" " = " "as res" %`c4wfmt'.

```

```

> 0fc `Scalar N_sub'
      }
      - if `is_areg' {
      = if 0 {
          .PushRight "No. of categories" " = " "as res" %`c4wfmt'.0
> fc e(k_absorb)
      }
      - if `is_sem' | `is_gsem_group' {
      = if 0 | 0 {
          if ``Macro groupvar'' != "" {
              .PushRight "Number of groups" " = " "as res" %`c4wfmt'.0f
> c `Scalar N_groups'
      }
      }
      - if `is_sem' & !`is_svy' {
      = if 0 & !0 {
          .PushLeft `Estimation method: {res:`Macro method'}'
          }
      - if `prop_selected' {
      = if 0 {
          .Build4selected
          }
      - if `is_svy' {
      = if 0 {
          .BuildRight4svy
          if `prop_censored' {
              .PushRight
              .Build4censobs "header"
              .PushRight
              }
          }
      - else {
      - if `is_margins' {
      = if 0 {
          .Build4subpop
          }
      - if `prop_isselected' {
      = if 0 {
          .Build4title
          .Build4isselected
          }
      - if `prop_censored' {
      = if 0 {
          .Build4title
          .Build4censobs
          if !`is_prefix' {

```

```

    .PushRight
}
}
-
- .Build4cluster


---


> _____ begin _coef_table_header.Build4cluste
> r _____
    - version 16
    - if `is_multclust' {
    = if 0 {
        .Build4mclust
        exit
    }
    - if missing(`Scalar N_clust') {



---


> _____ begin _coef_table_header.Scala
> r _____
    - version 16
    - class exit ```= `result'(`0')``'
    = class exit `".``"



---


> _____ end _coef_table_header.Scala
> r _____
    = if missing(.) {
    - exit


---


> _____ end _coef_table_header.Build4cluste
> r _____
    - .Build4reps


---


> _____ begin _coef_table_header.Build4rep
> s _____
    - version 16
    - if !missing(`Scalar N_reps') {



---


> _____ begin _coef_table_header.Scala
> r _____
    - version 16
    - class exit ```= `result'(`0')``'
    = class exit `".``"



---


> _____ end _coef_table_header.Scala
> r _____
    = if !missing(.) {
        .PushRight "Replications" " = " "as res" %`c4wfmt'.0fc
> `Scalar N_reps'

```

```

        if `.`prop_censored' & !`.`is_svy' {
            .PushRight
        }
    }

> _____ end _coef_table_header.Build4rep
> s _____
- }
- if `.`prop_groups' {
= if 0 {
    .Build4groups
}
- if `.`is_stintcox' & "`e(strata)'" != "" {
= if 0 & "" != "" {
    if `ndep' == 2 {
        .PushRight
    }
}
- .Build4modeltest

> _____ begin _coef_table_header.Build4modeltes
> t _____
- version 16
- if `.`result'" != "e" {
= if "e" != "e" {
    exit
}
- if `.`opt_modeltest' == 0 {
= if 1 == 0 {
    exit
}
- if `""`Macro k_eq_model""' == "0" {

> _____ begin _coef_table_header.Macr
> o _____
- version 16
- class exit `""`result'(`0')"""
= class exit '"1"'

> _____ end _coef_table_header.Macr
> o _____
= if '"1"' == "0" {
    exit
}
- if missing(`.Scalar df_m') {

```

```

> _____ begin _coef_table_header.Scala
> r _____
  - version 16
  - class exit `".result`(`0')"`
  = class exit `7`

> _____ end _coef_table_header.Scala
> r _____
  = if missing(7) {
    exit
  }
  - if `".Macro chi2"` != "" | `".Macro df_r"` == "" {

> _____ begin _coef_table_header.Macr
> o _____
  - version 16
  - class exit `".result`(`0')"`
  = class exit `234.0472711804993`

> _____ end _coef_table_header.Macr
> o _____
  _____
  _____ begin _coef_table_header.Macr
> o _____
  - version 16
  - class exit `".result`(`0')"`
  = class exit `"

> _____ end _coef_table_header.Macr
> o _____
  = if `234.0472711804993` != "" | `""` == "" {
    .Build4chi2test

> _____ begin _coef_table_header.Build4chi2tes
> t _____
  - version 16
  - local type `e(chi2type)'
  = local type Wald
  - if `type` == "" {
  = if `Wald` == "" {
    local type Wald
  }
  - local didf = strtrim(`: di e(df_m)')
  = local didf = strtrim("7")
  - if !missing(e(chi2)) {
  - .PushRight "`type' chi2({res:`didf'})" " = " "as res"

```

```

> %`c4wfmt'.2f e(chi2)
      = .PushRight "Wald chi2({res:7})" " = " "as res" %10.2f
> e(chi2)


---


> _____ begin _coef_table_header.PushRigh
> t _____
    - version 16
    - gettoken tok rest : 0
    - gettoken eq rest : rest
    - gettoken dias rest : rest
    - if `:length local rest' {
    = if 15 {
        - local direst = ustrltrim(`: di `rest```)
        = local direst = ustrltrim(" 234.05")
        - .ralignr = max(`.ralignr', udstrlen(`direst'))
        = .ralignr = max(3, udstrlen("234.05"))
        - local len : di `""`tok"""
        = local len : di `"Wald chi2({res:7})"`
        - local len : smclength local len
        - .lalignr = max(`.lalignr', `len')
        = .lalignr = max(13, 12)
        - .right.Arrpush `\`C3` ""{lalign `.`lalignr':`tok"}`
> \`C4` ""eq"" `dias` "{ralign `\`.ralignr':`direst'}"
      = .right.Arrpush `\`C3` ""{lalign `.`lalignr':Wald chi2(
> {res:7})}" `.`C4` " = " as res "{ralign `.`lalignr':234.05}"
      - }
      - else if `:length local tok' {
      = else if 18 {
          .right.Arrpush `\`C3` `""`tok"""
      }
      - else {
          .right.Arrpush
      }


---


> _____ end _coef_table_header.PushRigh
> t _____
    - .PushRight "Prob > chi2" " = " "as res" %`c4wfmt'.4f
> chi2tail(e(df_m),e(chi2))
      = .PushRight "Prob > chi2" " = " "as res" %10.4f chi2tai
> l(e(df_m),e(chi2))


---


> _____ begin _coef_table_header.PushRigh
> t _____
    - version 16
    - gettoken tok rest : 0
    - gettoken eq rest : rest

```

```

- gettoken dias rest : rest
- if `:length local rest' {
= if 33 {
- local direst = ustrltrim(`: di `rest`")
= local direst = ustrltrim("    0.0000")
- .ralignr = max(`.ralignr', udstrlen(`direst"))
= .ralignr = max(6, udstrlen("0.0000"))
- local len : di ``tok``
= local len : di "Prob > chi2"
- local len : smcllength local len
- .lalignr = max(`.lalignr', `len')
= .lalignr = max(13, 11)
- .right.Arrpush \`.C3' `"\{lalign \`.lalignr':`tok'\}"
> \`.C4' ``eq'" `dias' "\{ralign \`.ralignr':`direst'\}"
= .right.Arrpush `.C3' `"\{lalign \`.lalignr':Prob > chi
> 2}"` \`.C4' " = " as res "\{ralign \`.ralignr':0.0000}"
- }
- else if `:length local tok' {
= else if 11 {
- .right.Arrpush \`.C3' ``tok``
}
- else {
- .right.Arrpush
}



---


> _____ end _coef_table_header.PushRight
> t _____
- }
- else {
local j_robust "\{help j_robustsingular##|_new:`type' c
> hi2(`didf')"
- PushRight "`j_robust'" " = " "as res" %`.c4wfmt's "."
- PushRight "Prob > chi2" " = " "as res" %`.c4wfmt's ".
> "
}



---


> _____ end _coef_table_header.Build4chi2tes
> t _____
- }
- else {
- .Build4Ftest
}



---


> _____ end _coef_table_header.Build4modeltes
> t _____
- .Build4r2

```

```

> _____ begin _coef_table_header.Build4r
> 2 _____
    - version 16
    - if ``.result'' != "e" {
    = if "e" != "e" {
        exit
    }
    - if !missing(e(r2)) {
        .PushRight "R-squared" " = " "as res" %`c4wfmt'.4f e(r2
> )
    }
    - if !missing(e(r2_p)) & `is_r2_p' {
    = if !missing(e(r2_p)) & 1 {
        - .PushRight "Pseudo R2" " = " "as res" %`c4wfmt'.4f e(r2
> _p)
    = .PushRight "Pseudo R2" " = " "as res" %10.4f e(r2_p)

> _____ begin _coef_table_header.PushRigh
> t _____
    - version 16
    - gettok tok rest : 0
    - gettok eq rest : rest
    - gettok dias rest : rest
    - if `:length local rest' {
    = if 15 {
        - local direst = ustrltrim(`: di `rest'')
        = local direst = ustrltrim(" 0.1783")
        - .ralignr = max(`.ralignr', udstrlen(`direst'))
        = .ralignr = max(6, udstrlen("0.1783"))
        - local len : di ``tok''
        = local len : di "Pseudo R2"
        - local len : smclength local len
        - .lalignr = max(`.lalignr', `len')
        = .lalignr = max(13, 9)
        - .right.Arrpush `\C3` ``{lalign ``.lalignr':`tok'}'' \
> `C4' ``eq'' `dias' ``{ralign ``.ralignr':`direst'}'
        = .right.Arrpush `C3` ``{lalign ``.lalignr':Pseudo R2}'' \
> `C4' " = " as res ``{ralign ``.ralignr':0.1783}"
    - }
    - else if `:length local tok' {
    = else if 9 {
        .right.Arrpush `\C3` ```tok''
    }
    - else {
        .right.Arrpush

```

```

        }

> _____ end _coef_table_header.PushRight
> t _____
- }
- if !missing(e(r2_a)) {
    .PushRight "Adj R-squared" " = " "as res" %`c4wfmt'.4f
> e(r2_a)
    }
- if !missing(e(rmse)) {
    .PushRight "Root MSE" " = " "as res" %`c4wfmt'.4f e(rms
> e)
    }

> _____ end _coef_table_header.Build4r
> 2 _____
- .Build4title

> _____ begin _coef_table_header.Build4title
> e _____
- version 16
- if `.`opt_septitle' {
= if 0 {
    exit
}
- if ```.title''' == "" {
= if `Negative binomial regression'' == "" {
    exit
}
- if `.`left.arrnels' {
= if 0 {
    exit
}
- local title `.`title'
= local title Negative binomial regression
- local title2 `.`title2'
= local title2
- local len : smcllength local title
- local len2 : smcllength local title2
- if `len2' > `len' {
= if 0 > 28 {
    local len = `len2'
}
- if `len' < (`c3' - 2) - (`c1' - 1) {
= if 28 < (49 - 2) - (1 - 1) {
- PushLeft ```.title'''
```

```

= PushLeft `"Negative binomial regression"`

> _____ begin _coef_table_header.PushLeft
> t _____
    - version 16
    - gettoken tok rest : 0
    - gettoken eq rest : rest
    - gettoken dias rest : rest
    - if `:length local rest' {
    = if 0 {
        local direst : di `rest'
        local direst = strtrim(`direst')
        local len : smclength local direst
        .ralignl = max(`.ralignl', `len')
        local len : di `"`tok`"'
        local len : smclength local len
        .lalignl = max(`.lalignl', `len')
        .left.Arrpush \`.C1`"`${lalign}\`.lalignl`:`tok`"}\`"
> .C2`"`eq`" `dias`"`${ralign}\`.ralignl`:`direst`}"
    }
    - else if `:length local tok' {
    = else if 28 {
        - .left.Arrpush \`.C1`"`${tok`"'
        = .left.Arrpush `.C1`"Negative binomial regression"
        - }
        - else {
            .left.Arrpush
        }
    }

> _____ end _coef_table_header.PushLeft
> t _____
    - .title = ""
    - if `len2' {
    = if 0 {
        PushLeft `"\`.title2`""
        .title2 = ""
    }
    - }
    - .opt_septitle = 1

> _____ end _coef_table_header.Build4titl
> e _____
    - if `prop_censlimits' {
    = if 0 {
        .Build4censlimits 1
    }

```

```

- .c2 = `lalignl' + 1
= .c2 = 0 + 1
- .c3 = `width'-`lalignr'-`ralignr'-3+1
= .c3 = 78-13-6-3+1
- .c4 = `c3' + `lalignr'
= .c4 = 57 + 13
- if `is_gsem' {
= if 0 {
    if `opt_dvheader' {
        gsem_depvar_header, left(`left.objkey') right(`right.obj
> key') c3(`c3') c4(`c4') c4wfmt(`c4wfmt')
    }
}
- .Build4crit


---


> _____ begin _coef_table_header.Build4cri
> t _____
    - version 16
    - if "`result'" != "e" {
    = if "e" != "e" {
        exit
    }
    - local offset 1
    - local hascrit = !missing(``e(ll)''') & !missing(``e(cr
> ittype)'')
        = local hascrit = !missing(`-363.7700619695835'') & !miss
> ing(`log pseudolikelihood')
        - if inlist(``e(dispers)'', "mean", "constant") {
        = if inlist("mean", "mean", "constant") {
        - if `hascrit' {
        = if 1 {
        - local ++offset
        - local crtype ``e(crittype)'''
        = local crtype ``log pseudolikelihood''
        - local clen : length local crtype
        - .c2 = `clen' + 2
        = .c2 = 20 + 2
        - }
        - local didisp = rtrim(``di e(dispers)'')
        = local didisp = rtrim("mean")
        - local DISPERS `""Dispersion: {res:`didisp'}"""
        = local DISPERS `""Dispersion: {res:mean}"""
        - }
        - .FillLeft `offset'
        = .FillLeft 2

```

```

> _____ begin _coef_table_header.FillLef
> t _____
    - version 16
    - args offset
    - local kr = `right.arrnels'
    = local kr = 4
    - local kl = `left.arrnels'
    = local kl = 1
    - local diff = `kr' - `kl' - 0`offset'
    = local diff = 4 - 1 - 02
    - forval i = 1/^diff' {
    = forval i = 1/1 {
    - .left.Arrpush ""
    - }

> _____ end _coef_table_header.FillLef
> t _____
    - if `DISPERS' != "" {
    = if "Dispersion: {res:mean}" != "" {
    - .PushLeft `DISPERS'
    = .PushLeft "Dispersion: {res:mean}"

> _____ begin _coef_table_header.PushLef
> t _____
    - version 16
    - gettoken tok rest : 0
    - gettoken eq rest : rest
    - gettoken dias rest : rest
    - if `:length local rest' {
    = if 0 {
        local direst : di `rest'
        local direst = strtrim(`direst')
        local len : smclength local direst
        .ralignl = max(`ralignl', `len')
        local len : di `tok'
        local len : smclength local len
        .lalignl = max(`lalignl', `len')
        .left.Arrpush `C1' `{"lalign \`lalignl':`tok"}' \
> .C2' ``eq'" `dias' "{ralign \`ralignl':`direst'}"
        }
    - else if `:length local tok' {
    = else if 22 {
        - .left.Arrpush `C1' ``tok'
        = .left.Arrpush `C1' `Dispersion: {res:mean}''
        - }
    - else {

```

```

    .left.Arrpush
}



---


> _____ end _coef_table_header.PushLeft
> t _____
- }
- local crtype = upper(bsubstr(`e(crittype)`',1,1)) + b
> substr(`e(crittype)`',2,.)
= local crtype = upper(bsubstr(`log pseudolikelihood`,1,
> 1)) + bsubstr(`log pseudolikelihood`,2,.)
- if `is_sem' & `e(critvalue)`' != "" & !`is_svy' {
= if 0 & `'' != "" & !0 {
    .PushLeft
    .PushLeftRalign "`crtpe'" " = " "as res" %10.0g e(critv
> alue)
}
- else if `hascrit' {
= else if 1 {
- if `is_gsem_group' {
= if 0 {
    local dill = strtrim(`: di %10.0g e(ll)')
    .PushLeft "`crtpe' = {res:`dill'}"
}
- else {
- .PushLeftRalign "`crtpe'" " = " "as res" %10.0g e(ll)
= .PushLeftRalign "Log pseudolikelihood" " = " "as res" %1
> 0.0g e(ll)


---


> _____ begin _coef_table_header.PushLeftRalign
> n _____
- version 16
- gettok tok rest : 0
- gettok eq rest : rest
- gettok dias rest : rest
- if `:length local rest' {
= if 13 {
- local direst : di `rest'
= local direst : di %10.0g e(ll)
- local direst = strtrim(`direst`)
= local direst = strtrim("-363.77006")
- local len : smclength local direst
- .ralignla = max(`.ralignla', `len')
= .ralignla = max(0, 10)
- local len : di ``tok''
= local len : di "Log pseudolikelihood"
- local len : smclength local len

```

```

    - .lalignla = max(`.lalignla', `len')
    = .lalignla = max(0, 20)
    - .left.Arrpush `\`C1' `"{lalign \`lalignla':`tok'}"' \
> `\`C2a' ``eq''' `dias' "{ralign \`lalignla':`dires'}"
        = .left.Arrpush `\`C1' `"{lalign \`lalignla':Log pseudoli
> kelihood}"' `\`C2a' " = " as res "{ralign \`lalignla':-363.77006}"
        - }
        - else if `:length local tok' {
        = else if 20 {
            .left.Arrpush `\`C1' `"`tok`"'
        }
        - else {
            .left.Arrpush
        }



---


> _____ end _coef_table_header.PushLeftRalign
> n _____
    - }
    - }



---


> _____ end _coef_table_header.Build4cri
> t _____
    - .c2 = `lalignl' + 1
    = .c2 = 0 + 1
    - .c2a = `lalignla' + 1
    = .c2a = 20 + 1
    - .c3 = `width'-`lalignr'-`ralignr'-3+1
    = .c3 = 78-13-6-3+1
    - .c4 = `c3' + `lalignr'
    = .c4 = 57 + 13



---


> _____ end _coef_table_header.buil
> d _____
    - if ("`head2start'" != "") {
    = if ("" != "") {
        .`obj'.c3 = `head2start'
        .`obj'.c4 = `head2start' + `.`obj'.lalignr'
        .`obj'.width = `head2start' + `.`obj'.lalignr' + `.`obj'.ral
    > ignr' + 2
        }
    - if (`has_obj' == 0) {
    = if (0 == 0) {
        - .`obj'.display
        = .__000007.display



---


> _____ begin _coef_table_header.displa

```

```

> y -----
  - version 16
  - .ShowRules
  -----
> ----- begin _coef_table_header.ShowRule
> s -----
  - version 16
  - if `".result"" != "e" {
  = if "e" != "e" {
    exit
  }
  - if `".opt_rules' == 0 {
  = if 1 == 0 {
    exit
  }
  - if !inlist(`".cmd"', "logistic", "logit", "probit") {
  = if !inlist("nbreg", "logistic", "logit", "probit") {
  - exit
  -----
> ----- end _coef_table_header.ShowRule
> s -----
  - local nl = `".left.arrnels'
  = local nl = 4
  - local nr = `".right.arrnels'
  = local nr = 4
  - local K = max(`nl', `nr')
  = local K = max(4,4)
  - `newline'
  = display

  - if `""`.title"" != "" {
  = if `""" != "" {
    display as txt `""`.title"""
    if `""`.title2"" != "" {
      display as txt `""`.title2"""
    }
    if `K' {
      display
    }
  }
  - forval i = 1/`K' {
  = forval i = 1/4 {
    - display as smcl as txt `".left[`i']' as txt `".right[`i']'
  -----
> ----- begin _coef_table_header.C
> 1 -----

```

```

    - version 16
    - class exit `"_col(`.c1')"''
    = class exit `"_col(1)"'



---


> _____ end _coef_table_header.C
> 1 _____


---


> _____ begin _coef_table_header.C
> 3 _____
    - version 16
    - class exit `"_col(`.c3')"''
    = class exit `"_col(57)"'



---


> _____ end _coef_table_header.C
> 3 _____


---


> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"''
    = class exit `"_col(70)"'



---


> _____ end _coef_table_header.C
> 4 _____
    = display as smcl as txt _col(1) `"Negative binomial regress
> ion"' as txt _col(57) `"{lalign 13:Number of obs}"' _col(70) " = " as res "{
> ralign 6:218}"
Negative binomial regression                               Number of obs = 218
    - }
    - display as smcl as txt `'.left[`i']' as txt `'.right[`i']'



---


> _____ begin _coef_table_header.C
> 3 _____
    - version 16
    - class exit `"_col(`.c3')"''
    = class exit `"_col(57)"'



---


> _____ end _coef_table_header.C
> 3 _____


---


> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"''
    = class exit `"_col(70)"'



---



```

```

> _____ end _coef_table_header.C
> 4 _____
> = display as smcl as txt as txt _col(57) `'{lalign 13:Wald
> chi2({res:7})}"' _col(70) " = " as res "{ralign 6:234.05}"
> _____ Wald chi2(7) = 234.05
> - }
> - display as smcl as txt `'.left[`i']' as txt `'.right[`i']'
> _____ begin _coef_table_header.C
> 1 _____
> - version 16
> - class exit `"_col(`.c1')"''
> = class exit `"_col(1)"'
> _____ end _coef_table_header.C
> 1 _____
> _____ begin _coef_table_header.C
> 3 _____
> - version 16
> - class exit `"_col(`.c3')"''
> = class exit `"_col(57)"'
> _____ end _coef_table_header.C
> 3 _____
> _____ begin _coef_table_header.C
> 4 _____
> - version 16
> - class exit `"_col(`.c4')"''
> = class exit `"_col(70)"'
> _____ end _coef_table_header.C
> 4 _____
> = display as smcl as txt _col(1) `"Dispersion: {res:mean}"'
> as txt _col(57) `'{lalign 13:Prob > chi2}"' _col(70) " = " as res "{ralign 6
> :0.0000}"
> Dispersion: mean Prob > chi2 = 0.0000
> - }
> - display as smcl as txt `'.left[`i']' as txt `'.right[`i']'
> _____ begin _coef_table_header.C
> 1 _____
> - version 16
> - class exit `"_col(`.c1')"''
> = class exit `"_col(1)"'

```

```

> _____ end _coef_table_header.C
> 1 _____
> _____ begin _coef_table_header.C2
> a _____
    - version 16
    - class exit `"_col(`.c2a')"`
    = class exit `"_col(21)"'
_____
> _____ end _coef_table_header.C2
> a _____
_____
> _____ begin _coef_table_header.C
> 3 _____
    - version 16
    - class exit `"_col(`.c3')"`
    = class exit `"_col(57)"'
_____
> _____ end _coef_table_header.C
> 3 _____
_____
> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"`
    = class exit `"_col(70)"'
_____
> _____ end _coef_table_header.C
> 4 _____
    = display as smcl as txt _col(1)`'{lalign 20:Log pseudolikelihood
> lihood}``_col(21)`" = " as res "{ralign 10:-363.77006}" as txt _col(57)``{{
> lalign 13:Pseudo R2}``_col(70)`" = " as res "{ralign 6:0.1783}"
Log pseudolikelihood = -363.77006 Pseudo R2 = 0.1783
    - }
_____
> _____ end _coef_table_header.displa
> y _____
    - }
    - sreturn local width_header `.``obj``.width'
    = sreturn local width_header 78
    - sreturn local head2_right `.``obj``.ralignr'
    = sreturn local head2_right 6
    - sreturn local head2_left `.``obj``.lalignr'
    = sreturn local head2_left 13
    - sreturn local head2_start `.``obj``.c3'

```

```

        = sreturn local head2_start 57
        - sreturn local head1_right `.``obj'.ralignla'
        = sreturn local head1_right 10
        - sreturn local head1_left `.``obj'.lalignla'
        = sreturn local head1_left 20
        - sreturn local head1_start `.``obj'.c1'
        = sreturn local head1_start 1


---


> _____ end _coef_table_head
> r _____
    - di
    - }
    - _coef_table, `first' level(`level') `neqopt' `plus' `noskip' `
> showeqns' `diopts' `options' `notest'
    = _coef_table, level(95)


---


> _____ begin _coef_tabl
> e _____
    - version 11
    - local vv : di "version " string(max(11,_caller())) ", missin
> g:" _____
    - if (!c(noisily) & c(coeftabresults) == "off") {
        exit
    }
    - _check_eclass
    - syntax [, BMATrix(passthru) VMATrix(passthru) * ]
    - if "`e(b)' == "" & "`e(V)' == "" & "`bmatrix'"`vmatrix'"==""
> " { _____
    = if "matrix" == "" & "matrix" == "" & ""=="" {
        exit
    }
    - local mc_cmds contrast margins pwcompare pwmean
    - local cmd "`e(cmd)'"
    = local cmd "nbreg"
    - local keepmc : list cmd in mc_cmds
    - if inlist("`cmd'", "pwcompare", "pwmean") {
    = if inlist("nbreg", "pwcompare", "pwmean") {
        local groups GROUPS
    }
    - if "`cmd'" == "regress" {
    = if "nbreg" == "regress" {
        local beta Beta
    }
    - if "`cmd'" == "gsem" {
    = if "nbreg" == "gsem" {

```

```

        local fvignore fvignore(int 0)
        local flignore flignore
    }
- if "`cmd'" == "sem" {
= if "nbreg" == "sem" {
    local standardized STANDARDIZED
    local showginvariant SHOWGINVariant
    local nolabel NOLABEL LABel NOFVLABEL FVLABEL
    local nofootnote NOFOOTnote
    local wrap wrap(numlist max=1) fvwrap(passthru)
}
- if "`e(mi)'""=="mi" {
= if ""=="mi" {
    local dftable DFTable
    local dfonly DFONLY
    local noclustreport NOCLUSTReport
    local pisematrix PISEMATrix(string)
}
- syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(
> string) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(st
> ring) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string)
> PCLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) `beta' `standardized' NOCI NOPValues `dftable' `dfonly' dfci DFPV
> alues dfmissing `groups' COEFLegend selegend `fvignore' `flignore' `showginv
> ariant' `nolabel' `nofootnote' `wrap' sort `pisematrix' depname(string) COEF
> Title(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEGend n
> oCNSReport FULLCNSReport `noclustreport' cformat(passthru) sformat(passthru)
> pformat(passthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SE
> Parator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EFORMALL CITYPE(string)
> eqselect(string) noEFORMNOTE * ]
        = syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(
> string) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(st
> ring) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string)
> PCLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) NOCI NOPValues dfci DFPValues dfmissing COEFLegend selegend
> sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(stri
> ng) cititle(string) NOMCLEGend noCNSReport FULLCNSReport cformat(passthru)
> sformat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -1) N
> ODIOPARM NOTEST SEPator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EFORMA
> LL CITYPE(string) eqselect(string) noEFORMNOTE * ]
        - if "`wrap'" != "" {
= if "" != "" {
    opts_exclusive `"wrap(`wrap')` `fvwrap`"
    local fvwrap fvwrap(`wrap')

```

```

        }
- if "`nolabel'`label'" != "" {
= if "" != "" {
    opts_exclusive "`nolabel' `label'"
    opts_exclusive "`nofvlabel' `fvlabel'"
    opts_exclusive "`nolabel' `fvlabel'"
    opts_exclusive "`nofvlabel' `label'"
    if "`nolabel'" != "" {
        local fvlabel nofvlabel
    }
    else {
        local fvlabel fvlabel
    }
}
- else local fvlabel `nofvlabel' `fvlabel'
= else local fvlabel
- local type `coeflegend' `selegend'
= local type
- opts_exclusive "`type' `standardized'"
= opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `""`opts""' != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - if (`""`rowmatrix""'=="" & "`norowci'"!="") {
= if (`""'=="" & ""!= "") {
        di as err "{bf:norowci} requires {bf:rowmatrix()}"
        exit 198
    }
    - if (`""`dftable""'!="" & "`norowci'"!="") {
= if ("""!= "" & ""!= "") {

```

```

        di as err "{bf:norowci} is not allowed with {bf:`dftable'`}"
        exit 198
    }
    - if ("`dfonly'" != "" & "`norowci'" != "") {
    = if ("'" != "" & "" != "") {
        di as err "{bf:norowci} is not allowed with {bf:`dfonly'`}"
        exit 198
    }
    - if ("`noci'" != "" & "`norowci'" != "") {
    = if ("'" != "" & "" != "") {
        di as err "{bf:norowci} is not allowed with {bf:`noci'`}"
        exit 198
    }
    - if "`standardized'" != "" & "`bstdmatrix'" != "" {
    = if "" != "" & "" != "" {
        local beta beta
        local standardized
    }
    - if `:length local type' == 0 {
    = if 0 == 0 {
        - local type `beta' `noci' `nopvalues' `dftable' `dfonly' `gro
> ups` `dfci` `dfpvalues'
        = local type
    - }
    - opts_exclusive "`type'"
    = opts_exclusive ""



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`first' `nofirst'"

```

```

= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``first' `showeqns''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- local cnsreport `cnsreport' `fullcnsreport'
= local cnsreport
- opts_exclusive ``cnsreport''
= opts_exclusive ""
_____
```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - if `"`showeqns'"' != "" {
    = if `""' != "" {
        local nofirst nofirst
    }
    - if `"`ematrix`noeqcheck'"' == "" {
    = if `""' == "" {
    - if `"`e(error)"'" == "matrix" {
    = if `""' == "matrix" {
        local ematrix e(error)
    }
    - }
    - _get_mcompare, `options'
    = _get_mcompare,
----- begin _get_mcompar
> e -----
    - version 11
    - local cmd `"`e(cmd)'"'
    = local cmd `nbreg'''
    - syntax [name(name=caller)] [, *]
    - local is_pwc = inlist("pwcompare", "`cmd'", "`caller'") |
> inlist("pwmean", "`cmd'", "`caller'")
    = local is_pwc = inlist("pwcompare", "nbreg", "") | inlist(
> pwmean", "nbreg", "")
    - local is_marg = inlist("margins", "`cmd'", "`e(cmd2)'", "`"
> caller'")
    = local is_marg = inlist("margins", "nbreg", "", "")
    - local OPTIONS NOADJust BONferroni DUNCan DUNNnett SCHeffe S

```

```

> IDak SNK TUKey ADJustall
    - if `is_pwc' {
    = if 0 {
        syntax [name] [, `OPTIONS' MCOMPARE(string) *]
    }
    - else {
    - syntax [name] [, MCOMPARE(string) *]
    - local suboption mcompare()
    - }
    - sreturn clear
    - sreturn local options `""`options"""
    = sreturn local options `"""
    - if `is_pwc' {
    = if 0 {
        local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `s
> cheffe' `sidak' `snk' `tukey'
        local METHOD : list uniq METHOD
        opts_exclusive "`METHOD'"
        local ALL `adjustall'
        opts_exclusive "`noadjust' `ALL'"
    }
    - local 0 `", `mcompare''''
    = local 0 `", ""
    - capture syntax [, `OPTIONS']
    = capture syntax [, NOADJust BONferroni DUNCan DUNNett SChef
> fe SIDak SNK TUKey ADJustall]
    - if c(rc) {
        di as err "invalid mcompare() option;"
        di as err "method ``mcompare'' not allowed"
        error 198
    }
    - local METHOD `METHOD' `noadjust' `bonferroni' `duncan' `du
> nnett' `scheffe' `sidak' `snk' `tukey'
    = local METHOD
    - local METHOD : list uniq METHOD
    - local ALL `ALL' `adjustall'
    = local ALL
    - local ALL : list uniq ALL
    - opts_exclusive "`METHOD'" `suboption'
    = opts_exclusive "" mcompare()



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

= local opts
- local n 0
- while `opts` != "" {
= while `` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- if `METHOD` == "" {
= if `` == "" {
- if `ALL` != "" {
= if `` != "" {
    di as err "multiple comparison method required with the ad
> justall option"
        exit 198
    }
- local METHOD noadjust
- local noadjust noadjust
    }
- opts_exclusive `ALL` `noadjust` `suboption'
= opts_exclusive " noadjust" mcompare()


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts noadjust
- local n 0
- while `opts` != "" {
= while `noadjust` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
= gettoken item1 opts : opts, bind
    }
- while `opts` != "" {
= while `` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {

```

```

= if 1 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local EXCLUDE duncan dunnett snk tukey
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if `is_pwc' {
        local opt : copy local METHOD
    }
    else {
        local opt "mcompare(`METHOD')"
    }
    local cmdlist anova manova regress mvreg pwmean
    if "`cmd'" == "pwcompare" {
        local cmd `"\`e(cmd_est)``"
    }
    if `is_marg' {
        local cmd margins
    }
    if `:list cmd in cmdlist' | !`is_pwc' {
        di as err `"method `opt' is not allowed with results from
> `cmd``'
        exit 322
    }
    if `"\`e(prefix)``' == "svy" {
        di as err `"method `opt' is not allowed with results using
> the svy prefix``
        exit 322
    }
    local vce `"\`e(vce)``"
    if !inlist("`vce'", "", "ols") {
        di as err `"method `opt' is not allowed with results using
> vce(`vce')``'
        exit 322
    }
}
- local EXCLUDE duncan dunnett snk tukey scheffe
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if `ALL' != "" {
        di as err `"option adjustall is not allowed with method `M
> ETHOD``'
        exit 198
    }
}

```

```

        }
- sreturn local method `""`METHOD"""
= sreturn local method `"noadjust"""
- sreturn local adjustall `""`ALL"""
= sreturn local adjustall `"""



---


> _____ end _get_mcompar
> e _____
    - local method `""`s(method)"""
    = local method `"noadjust"""
    - local all `""`s(adjustall)"""
    = local all `"""
    - local options `""`s(options)"""
    = local options `"""
    - if "`method'" != "noadjust" {
    = if "noadjust" != "noadjust" {
        local keepmc 1
    }
    - opts_exclusive "`all' `groups"""
    = opts_exclusive " "



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""" != "" {
    = while `""" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }



---


> _____ end opts_exclusiv
> e _____
    - if "`method'" == "dunnett" {
    = if "noadjust" == "dunnett" {
        opts_exclusive "`method' `groups"""
    }
    - _get_diopts diopts options, `options' `fwrap' `flabel'
    = _get_diopts diopts options,

```

```

> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options,
_____
> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`fvlable' `nofvlabel'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {

```

```

        - exit


---


> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``abbrev' `noabbrev''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - local allbaselevels `allbaselevels' `noallbaselevels'
  = local allbaselevels
  - local baselevels `baselevels' `nobaselevels'
  = local baselevels
  - local emptycells `emptycells' `noemptycells'
  = local emptycells
  - local omitted `omitted' `noomitted'
  = local omitted
  - local lstretch `lstretch' `nolstretch'
  = local lstretch
  - local fvlabel `fvlabel' `nofvlabel'
  = local fvlabel
  - local abbrev `abbrev' `noabbrev'
  = local abbrev
  - if ``allbaselevels`` `baselevels'' == "" {
  = if "" == "" {
    - if c(showbaselevels) == "all" {
      local allbaselevels allbaselevels
    }
    - else if c(showbaselevels) == "on" {
      local baselevels baselevels
    }
  }

```

```

- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `"cformat(`cformat')"'
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `"sformat(`sformat')"'
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''"
}

```

```

        local pformat `"pformat(`pformat')""'
    }
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {

```

```

c_local fvrapon fvrapon(`fvrapon')
}



---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> bbrev'
= c_local diopts
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1' `""`diopts"""
= c_local diopts `"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_method = s(method)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____

```

```

    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - opts_exclusive ``lstretch' `nolstretch''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `""' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``cnsreport' `fullcnsreport''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `""' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "
```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while `"$`opts`$` != "" {
= while `"$` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fvlabel `fvlabel` `nofvlabel'
= local fvlabel
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if ``allbaselevels`` `baselevels` == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if ``emptycells` == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if ``omitted` == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}

```

```

- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ``cformat''
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ``sformat''
    local sformat `sformat(`sformat')"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ``pformat''
    local pformat `pformat(`pformat')"
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'

```

```

= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while ""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `

```

```

> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
      = c_local DEFAULT
      - if `K' == 2 {
      = if 1 == 2 {
          c_local `c_opts' `""`options"""
          }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
      - if `""`name2"" == "" {
      = if `""options"" == "" {
          GetDiopts DUPs, `options'
          }
      - else {
      - GetDiopts DUPs options, `options'
      = GetDiopts DUPs options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
      - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive "`allbaselevels' `noallbaselevels'"
      = opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``allbaselevels' `nobaselevels'"  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``baselevels' `nobaselevels'"  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``omitted' `noomitted''
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``lstretch' `nolstretch''
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```

> e _____
    - opts_exclusive ``noci' `nopvalues''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive ``coding' `compare''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``versus' `compare''

```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'

```

```

= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == ""
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == ""
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == ""
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == ""
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}

```

```

- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat ```sformat(`sformat')''''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat ```pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive ``word' `width''' fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab

```

```

        - local opts `opts'
        = local opts
        - local n 0
        - while `""`opts"" != "" {
        = while `""` != "" {
            local ++n
            gettoken item`n` opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
            - exit


---


> _____ end opts_exclusiv
> e _____
        - local fvrapon `word` `width'
        = local fvrapon
        - if `:length local fvrapon' {
        = if 0 {
            c_local fvrapon fvrapon(`fvrapon')
        }


---


> _____ end _get_diopts.Wrapo
> n _____
        - if `fvrap' != "" {
        = if "" != "" {
            FVWrap, `fvrap'
        }
        - c_local `c_diopts` `levelopt` `vsquish` `allbaselevels'
> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvrap` `fvrapon` `fvlabel` `nocl` `nopvalues` `markdown` `citype` `a
> bbrev'
        = c_local DUPS
        - if `K' == 2 {
        = if 2 == 2 {
            - c_local `c_opts` `""`options"""
            = c_local options `"""
        }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95

```

```

> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name2` `""`options"""
    = c_local options `"""
    - }
    - local DUPS : list DUPS - DEFAULT
    - gettoken DUPS : DUPS
    - if `""`DUPS`""` != "" {
    = if `""` != "" {
        if (strpos(`""`DUPS`""`, "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS `""`DUPS`()"`
        }
        di as err "duplicate {bf:`DUPS`} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname` = `""`S_`sname`"""
    = sreturn local level = `""95"""
    - }
    - sreturn local `sname` = `""`S_`sname`"""
    = sreturn local method = `""noadjust"""
    - }

_____ end _get_diopt
> s _____
    - local legend coeflegend selegend
    - local legend : list legend & diopts
    - local diopts : list diopts - legend
    - local lstretch lstretch nolstretch
    - local lstretch : list lstretch & diopts
    - local diopts : list diopts - lstretch
    - local markdown markdown
    - local markdown : list markdown & diopts
    - local diopts : list diopts - markdown
    - _get_diopts ignore, `diopts` `cformat` `sformat` `pformat`
    = _get_diopts ignore,
_____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist

```

```

- GetDiopts diopts options, `options'
= GetDiopts diopts options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""' != "" {
= while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {

```

```

= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``coeflegend' `selegend''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - opts_exclusive ``noci' `nopvalues''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - local K : list sizeof namelist
  - gettoken c_diopts c_opts : namelist

```

```

- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```

> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n` opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    -----
> ----- end opts_exclusiv
> e -----
    - local allbaselevels `allbaselevels` `noallbaselevels'
    = local allbaselevels
    - local baselevels `baselevels` `nobaselevels'
    = local baselevels
    - local emptycells `emptycells` `noemptycells'
    = local emptycells
    - local omitted `omitted` `noomitted'
    = local omitted
    - local lstretch `lstretch` `nolstretch'
    = local lstretch
    - local fvlabel `fvlabel` `nofvlabel'
    = local fvlabel
    - local abbrev `abbrev` `noabbrev'
    = local abbrev
    - if "`allbaselevels` `baselevels'" == "" {
    = if "" == "" {
        - if c(showbaselevels) == "all" {
            local allbaselevels allbaselevels
        }
    - else if c(showbaselevels) == "on" {
            local baselevels baselevels
        }
    - }
    - if "`emptycells'" == "" {
    = if "" == "" {
        - if c(showemptycells) == "off" {
            local emptycells noemptycells
        }
    - }

```

```

- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `pformat(`pformat')"
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}

```

```

- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'" != "" {

```

```

= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local diopts
    - if `K' == 2 {
        = if 2 == 2 {
        - c_local `c_opts' `""`options"""
        = c_local options `"""
        - }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1' `""`diopts"""
    = c_local ignore `"""
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname' = s(`sname')
    = local S_level = s(level)
    - }
    - local S_`sname' = s(`sname')
    = local S_method = s(method)
    - }
    - sreturn clear
    - GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL fvlabel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV

```

```

    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
```

```
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``omitted' `noomitted''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
_____
> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``lstretch' `nolstretch''
  = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ```nocl' `nopvalues'''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ```coding' `compare'''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fvlabel `fvlabel' `nofvlabel'
= local fvlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ``allbaselevels`` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if ``emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if ``omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if ``lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}

```

```

- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')''''
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')''''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `pformat(`pformat')''''
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIidth]
    - if c(rc) {

```

```

        di as err "invalid fvwrapon() option;"  

        syntax [, WOrd WIth]  

        exit 198  

    }  

- opts_exclusive ``word' `width'' fvwrapon  

= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

```

```

> _____ end opts_exclusiv
> e _____
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

```

```

> _____ end _get_diopts.Wrapo
> n _____
    - if ```fvwrap''' != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `  

> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp  

> are' `fvwrap' `fvwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a  

> bbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {

```

```

        c_local `c_opts` `options'''
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95

```

```

> _____ end _get_diopts.GetDiopt
> s _____
    - if ``name2''' == "" {
    = if "" == "" {
    - GetDiopts DUPs, `options'
    = GetDiopts DUPs,

```

```

> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while "" != "" {
        local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
```

```
- opts_exclusive ``omitted' `noomitted''  
= opts_exclusive " "  


---



> _____ begin opts_exclusiv  
> e _____



```
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
 local ++n
 gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```



> _____ end opts_exclusiv  
> e _____



```
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "

> _____ begin opts_exclusiv
> e _____


```
- version 8.2  
- args opts optname errcode optslab  
- local opts `opts'  
= local opts  
- local n 0  
- while ```opts''' != "" {  
= while `''' != "" {  
    local ++n  
    gettoken item`n' opts : opts, bind  
}  
- if `n' < 2 {  
= if 0 < 2 {  
- exit  


---


```


> _____ end opts_exclusiv
> e _____


```
- opts_exclusive ``cnsreport' `fullcnsreport''  
= opts_exclusive " "  


---



> _____ begin opts_exclusiv


```


```


```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``coeflegend' `selegend''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``noci' `nopvalues''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`abbrev` `noabbrev`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts`""` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels` `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels` `nobaselevels'
= local baselevels
- local emptycells `emptycells` `noemptycells'
= local emptycells
- local omitted `omitted` `noomitted'
= local omitted
- local lstretch `lstretch` `nolstretch'
= local lstretch
- local fylabel `fylabel` `nofylabel'
= local fylabel
- local abbrev `abbrev` `noabbrev'
= local abbrev

```

```

- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat `cformat(`cformat')"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`sformat') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `sformat'
    local sformat `sformat(`sformat")'
}

```

```

        }
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat``') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ``pformat''
    local pformat `pformat(`pformat')'
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

        = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
        - local fvrapon `word` `width'
        = local fvrapon
        - if `:length local fvrapon' {
        = if 0 {
            c_local fvrapon fvrapon(`fvrapon')
        }


---


> _____ end _get_diopts.Wrapo
> n _____
        - if ``fvwrap'' != "" {
        = if "" != "" {
            FVWrap, `fvwrap'
        }
        - c_local `c_diopts' `leveLOPT' `vsquish' `albaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> `are' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> `bbrev'
        = c_local DUPS
        - if `K' == 2 {
        = if 1 == 2 {
            c_local `c_opts' `""`options"""
        }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
        - }
        - else {
            GetDiopts DUPS options, `options'
            c_local `name2' `""`options"""
        }
        - local DUPS : list DUPS - DEFAULT
        - gettoken DUPS : DUPS

```

```

- if ```DUPS'` != "" {
= if ```` != "" {
    if (strpos(```DUPS'`, "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS ```DUPS'()''
    }
    di as err "duplicate {bf:`DUPS'} option not allowed"
    exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = ```S_`sname'``
= sreturn local level = `95``
- }
- sreturn local `sname' = ```S_`sname'``
= sreturn local method = `noadjust``
- }



---


> _____ end _get_diopt
> s _____
- local cformat ```s(cformat)``
= local cformat ````
- local sformat ```s(sformat)``
= local sformat ````
- local pformat ```s(pformat)``
= local pformat ````
- _get_eformopts , eformopts(`options') allowed(__all__) soptions
> ons
= _get_eformopts , eformopts() allowed(__all__) soptions


---


> _____ begin _get_eformopt
> s _____
- version 8.0
- syntax [, eformopts(string asis) soptions ALLOWed(string)]
> ]
- local 0 , `eformopts'
= local 0 ,
- local EFALL NOHR hr NOSHR shr or IRR RRr TRatio
- if ```soptions'' != "" {
= if "soptions" != "" {
- syntax [, EForm1(passthru) EForm `EFALL' * ]
= syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR
> RRr tr TRatio *
- local opts ```options``
= local opts ````
- local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or'

```

```

> `irr' `rrr' `tr' `tratio'
= local 0 ,
-
- if "`allowed'" == "__all__" {
= if "__all__" == "__all__" {
- local allowed `EFALL'
= local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
-
- foreach ef of local allowed {
- capture confirm name `ef'
= capture confirm name NOHR
- if _rc {
      di as err "`ef' is not a valid name"
      exit 198
    }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr
-
- capture confirm name `ef'
= capture confirm name hr
- if _rc {
      di as err "`ef' is not a valid name"
      exit 198
    }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr
-
- capture confirm name `ef'
= capture confirm name NOSHR
- if _rc {
      di as err "`ef' is not a valid name"
      exit 198
    }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr
-
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
      di as err "`ef' is not a valid name"
      exit 198
    }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr
-
- capture confirm name `ef'

```

```

= capture confirm name or
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or
-
- capture confirm name `ef'
= capture confirm name IRR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr
-
- capture confirm name `ef'
= capture confirm name RRr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr
-
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr
-
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr tratio
-
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]

```

```

= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio ]
    - foreach ef of local efopts {
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - if ```eform1'''=="Odds ratio" {
    = if `'''=="Odds ratio" {
        local eform_cons_ti = "Odds"
        local eform_cons_note = "odds ratios"
    }
    - else if ```eform1'''=="Haz. ratio" {
    = else if `'''=="Haz. ratio" {
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    - else if ```eform1'''=="Time ratio" {
    = else if `'''=="Time ratio" {
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    - else if ```eform1'''=="IRR" {

```

```

= else if `""'=="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_ti2 = "incidence rate"
}
- else if `"`eform1`""'=="Risk ratio" {
= else if `""'=="Risk ratio" {
    local eform_cons_ti = "Risk"
    local eform_cons_note = "risk ratios"
}
- else if `"`eform1`""'=="Hlth ratio" {
= else if `""'=="Hlth ratio" {
    local eform_cons_ti = "Health"
    local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {
= if 0 {
    opts_exclusive "`eform'"
    if `:length local eform1' {
        opts_exclusive "eform() `eform'"
    }
}
- if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
    else if ("`eform'"=="tr") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="tratio") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
}

```

```

    else if ("`eform'"=="or") {
        local eform1 = "Odds ratio"
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(
> cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local eform_cons_ti = "Rel. risk"
            local eform_cons_note = "relative-risk ratios"
            local eform_cons_ti2 = "relative risk"
        }
        else {
            local eform_cons_ti = "Odds"
            local eform_cons_note = "odds ratios"
        }
    }
    else if ("`eform'"=="irr") {
        local eform1 = "IRR"
        local eform_cons_ti = "Inc. rate"
        local eform_cons_note = "incidence-rate ratios"
        local eform_cons_ti2 = "incidence rate"
    }
    else if ("`eform'"=="rrr") {
        local eform1 = "RRR"
        local eform_cons_ti = "Rel. risk"
        local eform_cons_note = "relative-risk ratios"
        local eform_cons_ti2 = "relative risk"
    }
    else if ("`eform'"!="nohr" & "`eform'"!="noshr") {
        local eform1 = upper("`eform'")
    }
}
-
sreturn clear
-
sreturn local options `""`opts`"""
-
sreturn local options `"""
-
sreturn local opt `eform'
-
sreturn local opt
-
sreturn local str `eform1'
-
sreturn local str
-
if `""`eform1`"" != "" {
=
if `""` != "" {
    sreturn local eform eform(`""`eform1`""")
}
-
else sreturn local eform """
-
sreturn local eform_cons_ti `eform_cons_ti'
-
sreturn local eform_cons_ti
-
sreturn local eform_cons_note `eform_cons_note'
-
sreturn local eform_cons_note
-
sreturn local eform_cons_ti2 `eform_cons_ti2'

```

```

= sreturn local eform_cons_ti2


---


> _____ end _get_eformopt
> s
    - local tr_item = ``s(eform_cons_note)``
    = local tr_item = `"""
    - if inlist(``bmatrix``", "", "e(b)") & ``e(k_eform)`` == "0" {
    = if inlist("", "", "e(b)") & "" == "0" {
        local eform
        }
        - else local eform ``s(str)``
        = else local eform `"""
        - local eform_cons_ti ``s(eform_cons_ti)``
        = local eform_cons_ti `"""
        - local eform_cons_ti2 ``s(eform_cons_ti2)``
        = local eform_cons_ti2 `"""
        - if (`e(consonly)`"!=1" | ``eform_cons_ti``"==") {
        = if ("0"!="1" | `""`==") {
            - local eformdi ``s(str)``
            = local eformdi `"""
            - }
            - else {
                local eformdi ``eform_cons_ti``
                local tr_item = cond(missing(`eform_cons_ti2`), strlower(``eform_cons_ti``"), ``eform_cons_ti2``")
            }
            - local coefttl = cond(``eform``"==", ``coeftitle``, `"""
> eformdi```)
            = local coefttl = cond(`""`==`, `""`, `""`)
            - local options ``s(options)``
            = local options `"""
            - _get_diparmopts, diparmopts(`options') level(`level')
            = _get_diparmopts, diparmopts() level(95)


---


> _____ begin _get_diparmopt
> s
    - if _caller() < 8.2 {
        _get_diparmopts_8 `0'
        exit
        }
        - version 9
        - local version : di "version " string(_caller()) ":""
        - syntax [, diparmopts(string asis) EXECute soptions bottom]
> plus SYNTAXonly *
    - local goptions `options'
    = local goptions level(95)

```

```

- SpliceGlobals junk , `goptions'
= SpliceGlobals junk , level(95)


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
- syntax name(id="macro name" name=c_diparm) [, diparm(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
- if ```dof''' == "" & ```e(df_r)''' != "" {
= if `''' == "" & `''' != "" {
    capture confirm integer number `e(df_r)'
    if !c(rc) {
        local gdof dof(`e(df_r)')
    }
    capture
}
- else local gdof ```dof'''
= else local gdof `'''
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (```diparm''' == "") exit
= if (`''' == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts''''
= local 0 `", ""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while ```diparm''' != "" {
= while `''' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm ```s(before)''''
        local after ```s(after)''''
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `gopt
> ions'
    local diparm`k` ```diparm''''

```

```

local diparmopts ```diparmopts' : `diparm''''
if `single' | ```:list retok after''' == "" {
local 0 `", `options''''
syntax [, diparm(string asis) * ]
}
else {
local diparm ```after''''
}
}
- if ```options''' == "" {
= if `''' == "" {
- syntax [, diparm(string asis) ]
- }
- if (`execute' == "") {
= if (" == "") {
- sreturn clear
- sreturn local options ```options''''
= sreturn local options `'''
- sreturn local diparm ```diparmopts''''
= sreturn local diparm `'''
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' ```diparm`i''''
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- local NODIPARM : length local nodiparm
- if `NODIPARM' {
= if 0 {
    local options
}
- local GTOPTS parse(":") bind quotes
- local k 0
- if !`NODIPARM' {
= if !0 {
- if ```e(diparm)''' != "" {
= if `''' != "" {
    local i 0
    local diparm ```e(diparm)''''
}
- else if ```e(diparm1)''' != "" {
= else if ``lnalpha, exp label("alpha")''' != "" {

```

```

- local i 1
- local diparm `""`e(diparm1)"""
= local diparm `"

```

```

gettoken diparm rest : diparm, `GTOPTS'
while `:length local rest' {
    local ++k
    local diparm`k' : copy local diparm
    gettoken COLON rest : rest, `GTOPTS'
    gettoken diparm rest : rest, `GTOPTS'
}
local ++k
local diparm`k' : copy local diparm
local 0 `", `options''''
syntax [, diparm(string asis) *]
}

-
if "`markdown'" != "" {
= if "" != "" {
    local lsize = c(linesize)
    set linesize 255
}
-
`vv' mata: _coef_table()
= version 12, missing: mata: _coef_table()



---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''

```

```

= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `'''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `'''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels''
    = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``versus' `compare''
  = opts_exclusive " "
  _____ begin opts_exclusiv

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - opts_exclusive ``abbrev' `noabbrev''
  = opts_exclusive " "
  _____ begin opts_exclusiv

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - local allbaselevels `allbaselevels' `noallbaselevels'
  = local allbaselevels

```

```

- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == ""
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if "`emptycells'" == "" {
= if "" == ""
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if "`omitted'" == "" {
= if "" == ""
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if "`lstretch'" == "" {
= if "" == ""
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
}

```

```

        sreturn local cformat `""`cformat"""
        local cformat `"cformat(`cformat')"""
    }
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`""`sformat""') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `""`sformat"""
    local sformat `"sformat(`sformat')"""
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`""`pformat""') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
    local pformat `"pformat(`pformat')"""
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```
> _____ begin opts_exclusiv
```

```

> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n` opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }

----- end opts_exclusiv

> e -----
    - local fvrapon `word' `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }

----- end _get_diopts.Wrapo

> n -----
    - if `fvwrap' != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local diopts
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' `""`options""'
        = c_local options `"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'

```

```

= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1' `""`diopts"""
= c_local __000007 `"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_k = s(k)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""' != "" {
    = while `""' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - opts_exclusive ``omitted' `noomitted''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``lstretch' `nolstretch''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``cnsreport' `fullcnsreport''  
      = opts_exclusive " "
```

```
> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local f xlabel `f xlabel' `nof xlabel'
= local f xlabel
- local abbrev `abbrev' `noabbrev'

```

```

= local abbrev
- if "`allbaselevels` `baselevels'" == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- }
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- }
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')'''
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''"
}

```

```

        local sformat `"$sformat(`$format')"`
    }
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if $fmtwidth(`"$pformat"') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `"$pformat"'
    local pformat `"$pformat(`$format')"`
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- `wrapon' , `fvwrapon'
= `wrapon' ,

```

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

        - if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
        - local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}



---


> _____ end _get_diopts.Wrapo
> n _____
        - if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
        - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
        = c_local DEFAULT
        - if `K' == 2 {
        = if 1 == 2 {
            c_local `c_opts' `options'
        }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
        - if `name2' == "" {
= if "" == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt

```

```

> s _____
      - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITTED OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru)
> FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive ``allbaselevels' `noallbaselevels''
      = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {
      = while `''' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
      }
      - if `n' < 2 {
      = if 0 < 2 {
          - exit
_____
> _____ end opts_exclusiv
> e _____
      - opts_exclusive ``allbaselevels' `nobaselevels''
      = opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ```opts''' != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlable''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``lstretch' `nolstretch''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - opts_exclusive ``cnsreport' `fullcnsreport''
  = opts_exclusive " "
  _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts''' != "" {
  = while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  _____ end opts_exclusiv
> e _____
  - opts_exclusive ``coeflegend' `selegend''
  = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
----- begin opts_exclusiv
> e -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
----- end opts_exclusiv
> e -----
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "
----- begin opts_exclusiv
```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``versus' `compare''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``abbrev' `noabbrev''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ```allbaselevels```baselevels''' == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if ```emptycells''' == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if ```omitted''' == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted

```

```

        }
    - }
    - if "`lstretch'" == "" {
    = if "" == "" {
    - if c(lstretch) == "off" {
        local lstretch nolstretch
    }
    - }
    - if `:length local cformat' {
    = if 0 {
        confirm numeric format `cformat'
        if fmtwidth(``cformat'') > 9 {
            local cformat "%9.0g"
            di "{txt}note: invalid cformat(), using default"
        }
        sreturn local cformat ```cformat'''
        local cformat `cformat(`cformat')"
    }
    - if `:length local sformat' {
    = if 0 {
        confirm numeric format `sformat'
        if fmtwidth(``sformat'') > 8 {
            local sformat "%8.2f"
            di "{txt}note: invalid sformat(), using default"
        }
        sreturn local sformat ```sformat'''
        local sformat `sformat(`sformat')"
    }
    - if `:length local pformat' {
    = if 0 {
        confirm numeric format `pformat'
        if fmtwidth(``pformat'') > 5 {
            local pformat "%5.3f"
            di "{txt}note: invalid pformat(), using default"
        }
        sreturn local pformat ```pformat'''
        local pformat `pformat(`pformat')"
    }
    - if `K' == 1 & `:length local options' {
    = if 1 == 1 & 0 {
        syntax namelist(max=2) [, `DIOPTS']
    }
    - if reldif(`level', c(level)) > 1e-3 {
    = if reldif(95, c(level)) > 1e-3 {
        local levelopt level(`level')
    }

```

```

- Wrapon , `fvwrapon'
= Wrapon ,


---


> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts''' != "" {
= while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if ``fvwrap''' != "" {
= if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'

```

```

> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `fvlable` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
      = c_local DUPs
      - if `K' == 2 {
      = if 1 == 2 {
          c_local `c_opts' `""`options"""
          }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
      - }
      - else {
          GetDiopts DUPs options, `options'
          c_local `name2' `""`options"""
          }
      - local DUPs : list DUPs - DEFAULT
      - gettoken DUPs : DUPs
      - if `""`DUPs""' != ""' {
      = if `""' != ""' {
          if (strpos(`""`DUPs""', "(")) {
              gettoken DUPs : DUPs, parse("(")
              local DUPs `""`DUPs'()"'
          }
          di as err "duplicate {bf:`DUPs'} option not allowed"
          exit 198
          }
      - sreturn clear
      - foreach sname of local snames {
      - sreturn local `sname' = `""`S_`sname'"""
      = sreturn local level = `""95"""
      - }
      - sreturn local `sname' = `""`S_`sname'"""
      = sreturn local k = `""0"""
      - }


---


> _____ end _get_diopt

```

```

> s _____
> _____ begin _dipar
> m _____
    - version 11
    - if _caller() < 8.2 {
        _diparm_8 `0'
        exit
    }
    - syntax anything(name=eqs) [, Level(cilevel) NOTAB DOF(pass
> thru) BMATrix(passthru) VMATrix(passthru) DFMATrix(passthru) COEFLegend SELE
> GEND * ]
        - tempname T
        - if `:length local notab' {
        = if 5 {
            - .`T' = ._b_diparm.new, level(`level') `dof' `bmatrix' `vma
> trix' `dfmatrix' `coeflegend' `selegend'
            = .__000008 = ._b_diparm.new, level(95)
            -class _b_diparm {
                -      string LEVEL      = ""
                -      double IS_MI      = 0
                -      string BMAT       = ""
                -      string COLNA     = ""
                -      string VMAT       = ""
                -      string DFMAT     = ""
                -      string COLFUL     = ""
                -      double DF         = 0
                -      double DF_HOLD   = 0
                -      double EXTRA     = 1
                -      string METHOD     = ""
                -      double has_b     = 0
                -      double has_v     = 0
                -      double has_df    = 0
                -      double has_Cns   = 0
            -}
        _____ begin _b_diparm.ne
> w _____
    - version 11
    - .IS_MI = `"\`e(mi)""' == "mi" & `"\`e(df_mi)""' == "matrix
> "
        = .IS_MI = `""' == "mi" & `""' == "matrix"
        - if `.IS_MI' {
        = if 0 {
            local ALTOPT DFMATrix(string)
        }

```

```

    - syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VM
> ATRix(string) EXTRA(real 1) MCOMPARE(passthru) `ALTOPT' ]
      = syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VM
> ATRix(string) EXTRA(real 1) MCOMPARE(passthru) ]
      - _get_mcompare, `mcompare'
      = _get_mcompare,


---


> _____ begin _get_mcompar
> e _____
    - version 11
    - local cmd ``e(cmd)''
    = local cmd `nbreg''
    - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", ``cmd'', ``caller''
> ) | inlist("pwmean", ``cmd'', ``caller'')
      = local is_pwc = inlist("pwcompare", "nbreg", "") | inli
> st("pwmean", "nbreg", "")
      - local is_marg = inlist("margins", ``cmd'', ``e(cmd2)''
> , ``caller'')
      = local is_marg = inlist("margins", "nbreg", "", "")
      - local OPTIONS NOADJust BONferroni DUNCan DUNNett SCHef
> fe SIDak SNK TUKey ADJustall
      - if `is_pwc' {
      = if 0 {
        syntax [name] [, `OPTIONS' MCOMPARE(string) *]
      }
      - else {
        syntax [name] [, MCOMPARE(string) *]
        - local suboption mcompare()
      }
      - sreturn clear
      - sreturn local options ``options''
      = sreturn local options `'''
      - if `is_pwc' {
      = if 0 {
        local METHOD `noadjust' `bonferroni' `duncan' `dunnett
> ' `scheffe' `sidak' `snk' `tukey'
        local METHOD : list uniq METHOD
        opts_exclusive ``METHOD''
        local ALL `adjustall'
        opts_exclusive ``noadjust' `ALL''
      }
      - local 0 `'', `mcompare'``
      = local 0 `'', `'
      - capture syntax [, `OPTIONS']
      = capture syntax [, NOADJust BONferroni DUNCan DUNNett S

```

```

> CHeffe SIDak SNK TUKey ADJustall]
    - if c(rc) {
        di as err "invalid mcompare() option;"
        di as err "method ``mcompare'' not allowed"
        error 198
    }
    - local METHOD `METHOD' `noadjust' `bonferroni' `duncan'
> `dunnett' `scheffe' `sidak' `snk' `tukey'
    = local METHOD
    - local METHOD : list uniq METHOD
    - local ALL `ALL' `adjustall'
    = local ALL
    - local ALL : list uniq ALL
    - opts_exclusive ``METHOD''' `suboption'
    = opts_exclusive "" mcompare()



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }



---


> _____ end opts_exclusiv
> e _____
    - if ``METHOD''' == "" {
    = if "" == "" {
    - if ``ALL''' != "" {
    = if "" != "" {
        di as err "multiple comparison method required with th
> e adjustall option"
    exit 198
}
    - local METHOD noadjust
    - local noadjust noadjust
}
    - opts_exclusive ``ALL' `noadjust''' `suboption'

```

```

= opts_exclusive " noadjust" mcompare()


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts noadjust
    - local n 0
    - while `opts' != "" {
    = while `noadjust' != "" {
    - local ++n
    - gettoken item`n' opts : opts, bind
    = gettoken item1 opts : opts, bind
    - }
    - while `opts' != "" {
    = while `' != "" {
    - local ++n
    - gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 1 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
    - local EXCLUDE duncan dunnett snk tukey
    - if `:list METHOD in EXCLUDE' {
    = if 0 {
        if `is_pwc' {
        local opt : copy local METHOD
        }
        else {
        local opt "mcompare(`METHOD')"
        }
        local cmdlist anova manova regress mvreg pwmean
        if "`cmd'" == "pwcompare" {
        local cmd `e(cmd_est)'
        }
        if `is_marg' {
        local cmd margins
        }
        if !`:list cmd in cmdlist' | !`is_pwc' {
        di as err `method `opt' is not allowed with results f
    > rom `cmd'"
    exit 322

```

```

        }
        if `"`e(prefix)`"" == "svy" {
            di as err `"method `opt' is not allowed with results u
> sing the svy prefix"
            exit 322
        }
        local vce `"`e(vce)`""'
        if !inlist("`vce'", "", "ols") {
            di as err `"method `opt' is not allowed with results u
> sing vce(`vce')"
            exit 322
        }
        }
        - local EXCLUDE duncan dunnett snk tukey scheffe
        - if `:list METHOD in EXCLUDE' {
        = if 0 {
            if "`ALL'" != "" {
                di as err `"option adjustall is not allowed with metho
> d `METHOD'"
                exit 198
            }
            }
            - sreturn local method `"`METHOD`""'
            = sreturn local method `""'
            - sreturn local adjustall `"`ALL`""'
            = sreturn local adjustall `""'



---


> _____ end _get_mcompar
> e _____
> ak" {
        - if !inlist("`s(method)", "noinf", "bonferroni", "sid
> ) {
        = if !inlist("noinf", "noinf", "bonferroni", "sidak"
        di as err "option `mcompare' not allowed"
        exit 198
    }
    - .METHOD = `s(method)"
    = .METHOD = "noinf"
    - .LEVEL = `level"
    = .LEVEL = "95"
    - if `bmatrix'" == "" {
    = if "" == "" {
        - if `:length local vmatrix' {
        = if 0 {
            di as err "option vmatrix() requires option bmatrix()"
            exit 198
        }
    }
}

```

```

        }
    - }
    - if "`vmatrix'" == "" {
    = if "" == "" {
    - if `:length local dfmatrix' {
    = if 0 {
        di as err "option dfmatrix() requires option vmatrix()"
        exit 198
    }
    - }
    - if `.IS_MI' & "`bmatrix``vmatrix``dfmatrix`e(properties
> )'"==""
    = if 0 & "b V"==""
        local bmatrix e(b_mi)
        local vmatrix e(V_mi)
        local dfmatrix e(df_mi)
    }
    - if `:length local bmatrix' {
    = if 0 {
        .has_b = 1
        .BMAT = "`bmatrix'"
        .COLNA = `:colful `bmatrix"'
    }
    - else {
    - .COLNA = `:colful e(b)'
    = .COLNA = "piq_timing_max:cb_authors_ext piq_timing_max:v
> int_late piq_timing_max:estimated piq_timing_max:stky_pr_rotemberg piq_timin
> g_max:stky_pr_calvo piq_timing_max:open piq_timing_max:wlth piq_timing_max:_>
> cons /lnalpha"
        - .has_Cns = `e(Cns)' == "matrix"
        = .has_Cns = "" == "matrix"
    - }
    - if `:length local vmatrix' {
    = if 0 {
        .has_v = 1
        .VMAT = "`vmatrix'"
    }
    - if `:length local dfmatrix' {
    = if 0 {
        .has_df = 1
        .DFMAT = "`dfmatrix'"
    }
    - if `dof' <= 0 {
    = if -1 <= 0 {
    - local df_r 0
    - Chk4PosInt df_r

```

```

> _____ begin _b_diparm.Chk4PosIn
> t _____
    - version 11
    - args ename
    - if `e(`ename')' != "" {
    = if '""' != "" {
        capture confirm integer number `e(`ename')'
        if !c(rc) {
            if `e(`ename')' > 0 {
                c_local `ename' `e(`ename')'
            }
        }
    }

> _____ end _b_diparm.Chk4PosIn
> t _____
    - if `df_r' {
    = if 0 {
        .DF = `df_r'
    }
    - }
    - else {
        .DF = `dof'
    }
    - if `extra' > 1 {
    = if 1 > 1 {
        .EXTRA = `extra'
    }

> _____ end _b_diparm.ne
> w _____
    - .'T'.compute `eqs', `options'
    = .__000008.compute lnalpha, exp

> _____ begin _b_diparm.comput
> e _____
    - version 11
    - version 11
    - syntax anything(name=EQS id="equation name(s)") [, NOPRO]
> b Prob EXP TANH ILOGIT INVLOGIT Function(str) Derivative(str) CI(string) ]
    - opts_exclusive "prob`noprob"
    = opts_exclusive " "

> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local prob `prob' `noprob'
= local prob
- if ``ilogit``invlogit'' != "" {
= if "" != "" {
    local ilogit ilogit
}
- local builtin `exp' `tanh' `ilogit'
= local builtin exp
- local fd 0
- if `:length local function' {
= if 0 {
    local ++fd
}
- if `:length local derivative' {
= if 0 {
    local ++fd
}
- if `fd' == 1 {
= if 0 == 1 {
    di as err "both function() and derivative() must be spec
> ified"
        exit 198
    }
- if `fd' {
= if 0 {
    local fopt "function()"
}
- opts_exclusive ``builtin' `fopt''
= opts_exclusive "exp "


---



```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts exp
    - local n 0
    - while `"$`opts`"' != "" {
    = while `"$`exp`"' != "" {
        - local ++n
        - gettoken item`n' opts : opts, bind
        = gettoken item1 opts : opts, bind
        - }
        - while `"$`opts`"' != "" {
        = while `""` != "" {
            local ++n
            gettoken item`n' opts : opts, bind
            }
        - if `n' < 2 {
        = if 1 < 2 {
            - exit
----- end opts_exclusiv
> e -----
    - if `.`.has_b' {
    = if 0 {
        local bmat `"$`.`BMAT`"'
        }
    - else {
    - local bmat `"$`e(b)`"'
        }
    - foreach EQ of local EQS {
    - if substr(`"$`EQ`"',1,1) != "/" {
    = if substr(`"$`lnalpha`"',1,1) != "/" {
        - local eq `"/`EQ`"'
        = local eq `"/`lnalpha`"'
        }
    - else local eq : copy local EQ
    - local el : colnumb `bmat` ``eq``
    = local el : colnumb e(b) `/lnalpha"
    - if inlist(`"$`el`"', "", ".") {
    = if inlist(`"$`9`"', "", ".") {
        di as err "parameter named {bf:`EQ'} not found"
        exit 322
        }
    - local eqs `eqs` `eq'

```

```

= local eqs  /lnalpha
- }
- local neq : list sizeof eqs
- if `.`.has_Cns' {
= if 0 {
    tempname Cns C
    matrix `Cns' = e(Cns)
}
- if `neq' != 1 {
= if 1 != 1 {
    local el 0
}
- if `.`.IS_MI' {
= if 0 {
    if `.`.has_df' {
        local df = el(`.DFMAT',1,`el')
    }
    else {
        local df = el(e(df_mi),1,`el')
    }
    if missing(`df') {
        local df 0
    }
}
- else {
- local df = `.`.DF'
= local df = 0
}
- tempname z alpha
- scalar `alpha' = (100 - `.`.LEVEL')/100
= scalar __00000A = (100 - 95)/100
- mata: st_numscalar("`z'", _mc_crit(`.`.METHOD'', `df' ==
> 0 ? . : `df', st_numscalar("`alpha''"), ., `.`.EXTRA'))
= mata: st_numscalar("__000009", _mc_crit("noadjust", 0 ==
> 0 ? . : 0, st_numscalar("__00000A"), ., 1))
- local isCns 0
- if `neq' == 1 {
= if 1 == 1 {
- tempname b se
- if `.`.has_b' {
= if 0 {
    scalar `b' = el(`.BMAT',1,`el')
    if `.`.has_v' {
        scalar `se' = sqrt(el(`.VMAT',`el',`el'))
    }
    else {

```

```

        scalar `se' = 0
    }
}
}
- else {
- scalar `b' = _b[`eqs']
= scalar __00000B = _b[/lnalpha]
- if "`e(V)'" == "matrix" {
= if "matrix" == "matrix" {
- scalar `se' = _se[`eqs']
= scalar __00000C = _se[/lnalpha]
- }
- else {
    scalar `se' = 0
}
- if `has_Cns' & `se' == 0 {
= if 0 & __00000C == 0 {
    matrix `C' = `Cns'[1...,`el']
    matrix `C' = `C'*`C'
    local isCns = `C'[1,1] != 0
}
- }
- if `se' == 0 {
= if __00000C == 0 {
    scalar `se' =
}
- if "`function'" != "" {
= if "" != "" {
    .Function `b' `se' `z' "`function'" "`derivative'"
}
- else if "`builtin'" != "" {
= else if "exp" != "" {
- `builtin' `b' `se' `z'
= .exp __00000B __00000C __000009

```

> _____ begin _b_diparm.ex
> p _____

```

- version 11
- args b se z
- return scalar est = exp(`b')
= return scalar est = exp(__00000B)
- return scalar se = return(est)*`se'
= return scalar se = return(est)*__00000C
- return scalar lb = exp(`b'-`z'*`se')
= return scalar lb = exp(__00000B-__000009*__00000C)
- return scalar ub = exp(`b'+`z'*`se')
= return scalar ub = exp(__00000B+__000009*__00000C)
```

```

        - return scalar i = 0


---


> _____ end _b_diparm.ex
> p _____
    - }
    - else {
        if ("`prob'" != "noprob") local prob prob
        .identity `b' `se' `z' `el' ``ci''
    }
    - }
    - else {
        .Multiple ``eqs'' `z' ``function'' ``derivative'' ``ci''
        local isCns = r(cns)
    }
    - .AddTest `df', `prob'
    = .AddTest 0,


---


> _____ begin _b_diparm.AddTes
> t _____
    - version 11
    - syntax anything(name=df) [, Prob]
    - return add
    - if ``prob'' == "" {
    = if "" == "" {
    - return scalar p = .
    - return scalar z = .
    - exit


---


> _____ end _b_diparm.AddTes
> t _____
    - return add
    - if `df' == 0 {
    = if 0 == 0 {
    - return scalar df = .
    - }
    - else return scalar df = `df'
    = else return scalar df = 0
    - return scalar crit = `z'
    = return scalar crit = _000009
    - return scalar cns = `isCns'
    = return scalar cns = 0


---


> _____ end _b_diparm.comput
> e _____
    - exit

```

```

> _____ end _dipar
> m _____
> _____
> _____
> piq_timing_max | Coefficient      Robust
> rval]          std. err.      z      P>|z|      [95% conf. inte
> _____
> cb_authors_ext |   .493083    .0981995    5.02    0.000    .3006155    .68
> 55504
> vint_late |   -.4235059   .1478972   -2.86    0.004   -.7133791   -.13
> 36327
> estimated |   .5012162    .1107559    4.53    0.000    .2841387    .71
> 82937
> stky_pr_rotemberg |  -1.254557   .2304346   -5.44    0.000   -1.706201   -.80
> 29138
> stky_pr_calvo |  -.9113602   .1992952   -4.57    0.000   -1.301972   -.52
> 07488
> open |  -.4558018    .166072    -2.74    0.006   -.781297   -.13
> 03067
> wlth |  -.3130304   .0844941   -3.70    0.000   -.4786359   -.1
> 47425
> _cons |  1.301083   .2106402    6.18    0.000    .8882355    1.
> 71393
> _____
> _____
> /lnalpha |  -2.419956   .4500435           -3.302025   -1.5
> 37887
> _____
> _____
> alpha |   .0889255   .0400203           .0368085    .21
> 48345
> _____
> _____
> - if "`markdown'" != "" {
> = if "" != "" {
>     set linesize `lsize'
> }
> - if "`eqselect'" == "" & "`eformnote'" != "noeformnote" {
> = if "" == "" & "" != "noeformnote" {
> - if `"`eformdi'"'!="" & ("`e(cmd)'"!="gnbreg" | "`e(prefix)'""
> == "svy") {
> = if `""'!="" & ("nbreg"!="gnbreg" | ""== "svy") {
>     local k_eform `r(k_eform)'
>     if (`k_eform'"=="') {

```

```

local k_eform = 1
}
local k_eq `e(k_eq)'
if ("`k_eq'"=="") {
local k_eq = 1
}
if (`k_eform'<`k_eq' & `k_eform') {
    if ("`e(cmd2)'" == "stintreg" | "`e(cmd2)'" == "streg") & ("`e(cmd)'" == "weibull" | "`e(cmd)'" == "gompertz") {
    }
else {
    _eform_multeq_note efnote : `k_eform' ``tr_item'''
    di as txt "`efnote"
}
}
}
-
if (`eformdi'"!=" & "`e(noconstant)"=="0" & ``eform_co
> ns_ti'"!=" & "`e(consonly)"!="1") {
    = if ("!"!=" & "0"=="0" & !"!=" & "0"!="1") {
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local asvar = ``e(ranvars)``e(fixvars)``e(indvars)'" != ""
            if ``e(casevars)'" != "" & `asvar' {
                local note1 "Exponentiated coefficients represent odds ratio
> s for "
                local note2 "alternative-specific variables (first equation)
> and "
                local note3 "{help j_cmrisk##|_new:relative-risk ratios} "
                local note4 "for case-specific variables."
                di as txt "{p 0 6 2}Note: `note1` `note2` `note3` `note4'{p_end
> }"
            }
        }
    if "`eform_cons_ti'" == "Inc. rate" {
        local eform_cons_note "incidence rate"
    }
    else if "`eform_cons_ti'" == "Rel. risk" {
        local eform_cons_note "relative risk"
    }
    else if "`eform_cons_ti'" == "Health" {
        local eform_cons_note "health (probability of no disease)"
    }
    else {
        local eform_cons_note = strtolower(``eform_cons_ti'')
    }
    local eform_cons_note "baseline `eform_cons_note'"
}

```

```

        if ("`e(cmd2)'"=="") {
            local cmd `e(cmd)'
        }
        else {
            local cmd `e(cmd2)'
        }
        local f2 = udssubstr("`cmd'",1,2)
        local is_re = ("`f2'"=="xt" | "`f2'"=="me")
        if `is_re' {
            local extranote " (conditional on zero random effects)"
        }
        di as txt "{p 0 6 2}Note: {bf:_cons} estimates " "`eform_con
> s_note`extranote'" _c
        if ("`e(cmd)'"=="mlogit" | "`e(cmd)'"=="asclogit" | "`e(cmd)"
> '"=="cmclogit" | "`e(cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            di as txt " for each outcome" _c
        }
        di as txt ".{p_end}"
        }
        -
        -
        - return add
        - if !`keepmc' {
        = if !0 {
        - return local mcmethod
        - return local mctitle
        - }
    
```

```

> _____ end _coef_tabl
> e _____
    - if "`footnote'" == "" {
    = if "nofootnote" == "" {
        ml_footnote
    }

```

```

> _____ end mopt.Displa
> y _____
    - exit

```

```

> _____ end mop
> t _____
    - exit

```

```

> _____ end m
> l _____
    - if "`e(chi2_ct)'"!="LR" { exit }
    = if ""!="LR" { exit }

```

```
> _____ end nbreg.Displa
> y _____
>   - }
>   - error `e(rc)'
>   = error 0
> _____ end nbreg.Estimat
> e _____
>   - version 10: ereturn local cmdline `"nbreg `0"'
>   = version 10: ereturn local cmdline `"nbreg piq_timing_max      cb_authors_e
> xt vint_late estimated  stky_pr_rotemberg  stky_pr_calvo      open wlth  if pi
> q_timing_max<60 , vce(r)"
> _____ end nbre
> g _____
>   - log close
>     name: <unnamed>
>     log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/piq_timing_max_all_det.smcl
> log type: smcl
> closed on: 9 May 2025, 13:21:40
```