
```
name: <unnamed>
log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/y_timing_max_all_det.smcl
log type: smcl
opened on: 9 May 2025, 13:21:30
- capture ! rm ./output/stepwise_regressions/`depvar'_`type'.pdf
= capture ! rm ./output/stepwise_regressions/y_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 y_timing_max with
> rule fixed effects"
Outcomes of bi-directional stepwise regressions with y_timing_max with rule fi
> xed effects
- di "Independent Variable set: `type'"
= di "Independent Variable set: all_det"
Independent Variable set: all_det
- di "*****"  
> ****
*****  
> **
- ${reg_`depvar'_`type'}
= nbreg y_timing_max cb_authors_ext estimated wg_ndx_mult stky_pr_rotember
> g wlth stky_pr_calvo ln_neq open if y_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) : y_timing_max cb_
> authors_ext estimated wg_ndx_mult stky_pr_rotember wlth stky_pr_calvo ln_n
> eq open if y_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) : y_timing_max
```

```

> cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo l
> n_neq open if y_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 `""' != ":" & `":` y_timing_max cb_authors_ext estimated wg_n
> dx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open if y_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 `":'" != ":" & `":` y_timing_max cb_authors_ext estimated wg_n
> dx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open if y_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 `y_timing_max cb_authors_ext estimated wg_nd
> x_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open if y_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 `y_timing_max cb_authors_ext estimated wg_ndx_mult stky_pr
> _rotemberg wlth stky_pr_calvo ln_neq open if y_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 `y_timing_max cb_authors_ext estimated wg_ndx_mult stky_pr
> y_pr_rotemberg wlth stky_pr_calvo ln_neq open if y_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 `y_timing_max cb_authors_ext estimated wg_ndx_mult stky_pr
> _rotemberg wlth stky_pr_calvo ln_neq open if y_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 `y_timing_max<60`" != "" {
- local if `if(`if')`"
= local if `if (y_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 [, B00Tstrap BStrap JACKknife JACKNife JKknife Robust * ]
- if `bstrap`" != "" {
= if "" != "" {
    local bootstrap bootstrap
}
-
if `jknife`" != "" | `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 `""`s(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 ``s(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 y_timing_max cb_authors_ext estimated wg_ndx_mul

```

```

> t stky_pr_rotemberg wlth  stky_pr_calvo ln_neq open  if y_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' `fvwr
> 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' `fvwr
> 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 y_timing_max
- tsunab y : `y'
= tsunab y : y_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 y_timing_max
        - local n : word count `varlist'
        = local n : word count y_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 y_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
}
- tempname mean
- scalar `mean' = r(mean)
= scalar __000001 = r(mean)
- if "`display'"=="" {
= if ""==" {
- capture assert `y' == int(`y') if `touse'
= capture assert y_timing_max == int(y_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 estimated wg_ndx_mult stky_pr
> _rotemberg wlth stky_pr_calvo ln_neq open [] if __000000,
- local xvars `r(varlist)'
= local xvars cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlt
> h stky_pr_calvo ln_neq open
- _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(riterlog)'" == "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 y_timing_max cb_authors_ext estimated wg_
> ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __000000, no
> display robust

```

```

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

```

> cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo l
> n_neq open [] if __000000, nodisplay      robust
> _____ 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) : y_timing_
> max cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calv
> o ln_neq open [] if __000000, nodisplay      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 `"`poisson, mark(Exposure OFFset CLuster)"' == ":" {
        sreturn local after `"`after'"
        exit
    }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `""' != ":" & `":` y_timing_max cb_authors_ext estimated wg
> _ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __000000, n
> odisplay      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 `":'" != ":" & `":` y_timing_max cb_authors_ext estimated wg

```

```

> _ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __000000, n
> odisplay    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 `"" y_timing_max cb_authors_ext estimated wg_
> ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __000000, no
> display    robust"

```

```

> _____ end _on_colon_pars
> e _____
    - local ZERO `""`s(before)'"""
    = local ZERO `""poisson, mark(Exposure OFFset CLuster) """
    - local 0 `""`s(after)'"""
    = local 0 `"" y_timing_max cb_authors_ext estimated wg_ndx_mult stky_
> pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __000000, nodisplay    rob
> ust"
    - 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 y_timing_max cb_authors_ext estimated wg_ndx_m
> ult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __000000, nodispl
> ay      robust


---


> _____ 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 ``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 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 `""`$format"""
        local $format `"$format(`$format')"""
    }
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`""`pformat""') > 5 {
        local pformat "%5.3f"
        di "{$txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`$format"""
    local $format `"$format(`$format')"""
}
- 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 fvrapon fvrapon(`fvrapon')
}


---


> _____ 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' `fvrapon' `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 "`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
    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')
}
- 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' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `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 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

```

```

        gettokent 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
        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 [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd 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' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fwrap' `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' = `""`S_`sname'"""
    = sreturn local level = `""95"""
    - }


---


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


---


> _____ begin mlopt
> s _____
    - version 8.0
    - local maxoptlist MLOPTs(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) [, MLOPTs(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) DIFFficult HALFSTEPonly CO
> NSTRaints(string) noCNSNOTEs COLlinear TECHnique(passthru) VCE(passthru) DOT
> S depsilon(passthru) SHOWH NOTCONCAVE(passthru) USEVIEWS NOLOG LOG nrderiv *
> ]
      - gettoken dest rest : namelist
      - if ``rest'' == "" {
      = if "" == "" {
      - syntax namelist [, `maxoptlist' ]
      = syntax namelist [, MLOPTs(string) TTrace 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) DIFFficult HALFSTEPonly CONSTraints(string) noCNSNOTEs C
> OLLinear TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOT
> CONCAVE(passthru) USEVIEWS NOLOG LOG 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'"!="" {
= if ""!="" & ""!="" {
    di in red "only one of offset() or exposure() can be specified"
    exit 198
}
- if "`constan'"!="` {
= if ""!="" {
    local nvar : word count `varlist'
    if `nvar' == 1 {
        di in red "independent variables required with " "noconstant optio
> n"
        exit 100
    }
}
- marksample touse
- if `cluster'"!="" {
= if `cluster'"!="" {
    markout `touse' `cluster', strok
    local clopt cluster(`cluster')
}
- if "`exposur'"!="` {
= if ""!="" {
    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'"!="` {
= if ""!="" {
    markout `touse' `offset'
    local offopt "offset(`offset')"
    if "`offvar'"=="" {
        local offvar `offset'
}

```

```

        }
    }
- gettoken y xvars : varlist
- _fv_check_depvar `y'
= _fv_check_depvar y_timing_max
- tsunab y : `y'
= tsunab y : y_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 y_timing_max
        - local n : word count `varlist'
        = local n : word count y_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 y_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 y_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 = y_timing_max*(__000005)-exp(__000005)-
> lngamma(y_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 -437.385284075989)"
    - }
    - 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"!="`weight'"=="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 estimated wg_ndx_mult stk
> y_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __00002,
- local xvars `r(varlist)'
= local xvars cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open
- if "`from'"=="`{
= if "``=="`{
- `vv' Ipois `y' `xvars' [`weight``exp'] if `touse', n(`nobs') mean(
> `mean') `constan' `offopt'
= version 18, missing: Ipois y_timing_max cb_authors_ext estimated w
> g_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [] if __00002,
> n(__00004) mean(__00003)


---


> _____ 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'"!="`{
= if "``!"=="`{
  local awt `"[aw=`exp']"`
  local wt `"(`exp')*"`
  local exp `"`=`exp`"'
}
- quietly {
- if "`offset'"!="`{
= if "``!"=="`{
  tempvar ynew
  gen double `ynew' = `y' - `offset'*`mean' `if'
  local poff "+`offset'"
}
- else local ynew `y'
= else local ynew y_timing_max
- `vv' _regress `ynew' `xvars' `awt' `if', `constan'
= version 18, missing: _regress y_timing_max cb_authors_ext estim

```

```

> ated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open if __0000
> 02,
> _____ 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' MCOMPar(string) *]
    }
    - else {
        syntax [name] [, MCOMPar(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 `""'
-
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 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) 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 ++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 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 "`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' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlable' `nocI' `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 FVRA
> 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 ``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 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, `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' `fwrapon' `fvlable' `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 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 NO0MITted 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 ``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 "`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 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` `b

```

```

> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlable' `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)""'

```

```

- }



---


> s _____ 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_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 "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 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' `fvlablel''"
    opts_exclusive ``nolabel' `fvlablel''"
    opts_exclusive ``nofvlabel' `label''"
    if ``nolabel'' != "" {
      local fvlablel nofvlabel
    }
    else {
      local fvlablel fvlablel
    }
  }
  - else local fvlablel `nofvlabel' `fvlablel'
  = else local fvlablel
  - 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 ("`noc'i'!=\" & "`norowci'!=\") {
= if ("!=\" & \"!=\") {
    di as err "{bf:norowci} is not allowed with {bf:`noc'i'}"
    exit 198
}
- if "`standardized' != \" & "`bstdmatrix' != \" {
= if \" != \" & \" != \" {
    local beta beta
    local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
    - local type `beta' `noc'i' `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 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 "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 _____
      - 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 `"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' `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 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 [, 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 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, fwrap(integer)
    - if `fwrap' < 0 {
    = if 1 < 0 {
        di as err "{p}invalid option {bf:fwrap(`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 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

```

```

> 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 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

```

```

        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
    gettokent 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 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'' 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'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `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 `"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 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 NO0MITted 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 ``f xlabel' `nof 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 `"$sformat(`$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 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 "`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 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 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 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, fvwrap(integer)
      - if `fvwrap' < 0 {
      = if 1 < 0 {
          di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; "
> "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' `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

-----
> -----
> 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 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 "" == "" {
- 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 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 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 [, 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 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 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 `""`s(cformat)"""
    = local cformat `"""
    - local sformat `""`s(sformat)"""
    = local sformat `"""
    - local pformat `""`s(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
-
- 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_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 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 `""` == "" & "212" != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 212
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(212)
- }
- 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' {  
gettken diparm rest : diparm, `GTOPTS'  
while `:length local rest' {  
local ++k  
local diparm`k' : copy local diparm  
gettken 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
> 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' `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 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 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 ``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 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' `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 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_tabl
> 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 y_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 = y_timing_max*(__000006)-exp(__000006
> )-lngamma(y_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 y_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(__00003)-ln(r(mean))


---


> _____ end poisson.Solve
> C _____
    - tempname c
    - scalar `c' = r(_cons)
= scalar __0000B = r(_cons)
    - if `c'<. {
= if __0000B<. {
    - local c "+`c'"
= local c "+__0000B"
    }
    - else local c
    - LikePois `y' `xb``poff``c' [`weight``exp'] `if', n(`nobs')
= LikePois y_timing_max __00006+__0000B [] if __00002, n(__000
> 04)


---


> _____ 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 __0000C = y_timing_max*(__00006+__0000B)-exp
> (__00006+__0000B)-lngamma(y_timing_max+1) if __00002
    - summarize `lnf' `wt' `if', meanonly
    = summarize __0000C if __00002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __00004 { 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 = y_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 estimated
> wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [aw=exp(__000
> 06+__00000B)] 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' 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 DUNNnett 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 ++
gettken 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
> Elevels 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 ++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 ```fwrap'`` != "" {
= if "fwrap(1)" != "" {
- FVWrap, `fwrap'
= FVWrap, fwrap(1)


---


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



---


> _____ end _get_diopts.FVWra
> p _____
- }
- c_local `c_diopts' `leavelopt' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar

```

```

> e' `fvwrap` `fwrapon` `fvlable` `noci` `nopvalues` `markdown` `cotype` `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
> Elevels 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 FWVRA
> 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 ++
        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 ``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 ``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 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 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 ``fvrap'' != "" {
= if "" != "" {
    FVWrap, `fvrap'
}
- 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' `fvrapon' `fvlable' `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) 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 ++
    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 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, `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' `fwrapon' `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 DUP$ : DUP$, parse("(")
local DUP$ ```DUP$'()''
}
di as err "duplicate {bf:`DUP$'} 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) fwwrap(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 ) fwwrap(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_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 "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 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 ("`nocl'"'!="" & "`norowci'"'!="") {
= if (""!= "" & ""!= "") {
    di as err "{bf:norowci} is not allowed with {bf:`nocl'}"
    exit 198
}
- if "`standardized'"' != "" & "`bstdmatrix'"' != "" {
= if "" != "" & "" != "" {
    local beta beta
    local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
- local type `beta' `nocl' `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 ++
- 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 _____
- 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 `"noadjust"
- local all `"`s(adjustall)"""
= local all `"""
- local options `"`s(options)"""
= local options `"


---



```

> _____ begin opts_exclusiv
> e _____
 - version 8.2
 - args opts optname errcode optslab
 - local opts `opts'
= local opts
 - local 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, fwrap(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, fwrap(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 `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 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' `fvlable' `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) 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 N0LSTRETCH 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 "`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'" 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 ```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' `fvwrap' `fvrapon' `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, 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 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` `no omitted`"
= opts_exclusive " "


---


> _____ begin opts_exclusiv

```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - 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 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(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 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 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' `nof 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 $format `"$format"
        local $format `"$format(`format')"
    }
- if `:length local $format' {
= if 0 {
    confirm numeric format '$format'
    if fmtwidth(`"$format") > 5 {
        local $format "%5.3f"
        di "{txt}note: invalid $format(), using default"
    }
    sreturn local $format `"$format"
    local $format `"$format(`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')
}
- $rapon , `fvrapon'
= $rapon ,

```

```

> _____ begin _get_diopts.$rapo
> 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' `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' `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 "`options'" != "" {
= if "options" != "" {
- 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
-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 `"

```

```

= local eform_cons_t12 `"""
- if (`e(consonly)"!="1" | ```eform_cons_t1'"'==") {
= if ("!"=="1" | `""'==") {
- local eformdi `"\`s(str)"""
= local eformdi `"""
- }
- else {
    local eformdi `"\`eform_cons_t1"""
    local tr_item = cond(missing(`eform_cons_t12'), strlower(`> ``eform_cons_t1"), `"\`eform_cons_t12")
    }
- local coefttl = cond(`"\`eform'"'==`""', `"\`coeftitle'", `"\`eformdi'")
> 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 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 `""' == "" & `"\`212'"' != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 212
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(212)
- }

```

```

- 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
> 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

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

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

> _____ 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 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 `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' `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 __00000D `""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 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 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 , `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 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' `""
            di as txt "`efnote'"
        }
    }
}
-
if (`eformmdi'!="!" & `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 = strlower(`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 y_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 = y_timing_max*(__000006)-exp(__000006
> )-lngamma(y_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 (y_timing_max: y_timing_
> max = cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_ca
> lvo ln_neq open, ) [] if __000002, collinear missing max nooutput nopreserv
> e title(Poisson regression) robust init(__000006) search(off) lf0(1 -437.
> 385284075989) negh


---


> _____ begin m
> l _____
    - if _caller()>=11 {
    - mopt `0'
    = mopt model e2 poiss_lf (y_timing_max: y_timing_max = cb_authors_
> ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open,
> ) [] if __000002, collinear missing max nooutput nopreserve title(Poisson
> regression) robust init(__000006) search(off) lf0(1 -437.385284075989) neg
> h


---


> _____ begin mop
> t _____
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - gettoken subcmd 0 : 0, parse(" ,")
    - local lcmbd : 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 (y_timing_max: y_ti
> ming_max = cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_
> pr_calvo ln_neq open, ) [] if __00002, collinear missing max nooutput nopr
> eserve title(Poisson regression) robust init(__00006) search(off) lf0(1
> -437.385284075989) 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_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
  - 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 `""` == "" & `212`" != "" {
    - capture confirm integer number `e(df_r)`
    = capture confirm integer number 212
    - if !c(rc) {
      - local gdof dof(`e(df_r)')
      = local gdof dof(212)
      - }
      - 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' `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 `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 123 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq'),1,1) == "/" {
= if bsubstr(trim("y_timing_max: y_timing_max = cb_authors_ex
> t estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, ")
> "),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(`y_timing_max: y_timing_max = cb_authors_ex
> t estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, ")
> '') {
- if bsubstr(`p2'',1,1) == "," {
= if bsubstr(`y_timing_max: y_timing_max = cb_authors_ext esti
> mated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, "),1,1)
> == "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim(``p2''')
}
- if ```p1```p2''' == "()" {
= if ``(y_timing_max: y_timing_max = cb_authors_ext estimated
> wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, ")'' == "()" {
    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`)"
> ', 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
        }
    }
}
- 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 [],
    - tempfile eqlist
    - `eqlist' = __eqlist.new, eqopts(NOCONSTANT FREEParm) eqargs
> pts(OFFset EXposure) noneedvarlist numdepvars(0) needequal
    = __000008 = __eqlist.new, eqopts(NOCONSTANT FREEParm) eqargs
> 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 "freeparm"


---


> _____ 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.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'
    = .__00008.parse  (y_timing_max: y_timing_max = cb_authors_ex
> t estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, )
> []


---


> _____ 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 `"(y_timing_max: y_timing_max = cb_authors_ext es
> timated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, ) []"
> ', parse(",()[]")"
- local rebind = `""`1""! = "(" & `""`2""! == "("
= local rebind = `"(!" != "(" & `"y_timing_max: y_timing_max

```

```

> = cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo
> ln_neq open"" == "("
- }
- 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' COLlinear )
}
- 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(600013842fc0):y_timing_max: y_timi
> ng_max = cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr
> _calvo ln_neq open

```

```

> ----- begin _eqspec.pars
> e -----
    - version 9.2
    - _onColon_parse `0'
    = _onColon_parse __key(600013842fc0):y_timing_max: y_timi
> ng_max = cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr
> _calvo ln_neq open
----- 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 `"_key(600013842fc0)"' == ":" {
        sreturn local after `"`after`"'
        exit
        }
    - while `"`COLON`"' != ":" & `"`after`"' != "" {
        = while `""` != ":" & `":y_timing_max: y_timing_max = cb
> _authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_n
> eq open"'" != "" {
        - 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 `":` != ":" & `":y_timing_max: y_timing_max = cb
> _authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_n
> eq open"'" != "" {
        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(600013842fc0)"'
    - sreturn local after `""`after"""
    = sreturn local after `"


---



```

> _____ end _on_colon_pars
> e _____
 - local ol `s(before)'
 = local ol __key(600013842fc0)
 - 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) EXPo
> 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.arnels` {
    = 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 ```$(`after)`"""
= local 0 ``y_timing_max: y_timing_max = cb_authors_ext es
> timated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open"""
- if ```.wtypes"" != "" {
= if "" != "" {
    local wgt "[` .wtypes']"
}
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST'
> `NOCONS' *]
= syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREE
> Parm 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(`y_timing_max`) == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST' {
= if 11 {
- if strpos(`NAME`, ":") {
= if strpos(`y_timing_max`, ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname y_timing_max


---


> _____ begin _eqspec._confirm_eqnam
> e _____
- version 9.2

```

```

- capture confirm number `0'
= capture confirm number y_timing_max
- if (! c(rc)) exit
- local hasdot = strpos(```0''', ".")
= local hasdot = strpos(`y_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 "y_timing_max" == "=" {
    local REST : copy local anything
    local DEPVARS
}
- if (`:length local DEPVARS' == 0 & `n_depdevars') {
= if (13 == 0 & 0) {
    di as err "nothing found where depvar expected"
    exit 198
}
- if ```REST'''' == "" {
= if `= cb_authors_ext estimated wg_ndx_mult stky_pr_rote
> mberg wlth stky_pr_calvo ln_neq open'' == "" {
    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 DEPVARSLIST `DEPVARSLIST' `YY'
        }
        local INDEPVARS : list retok anything
        }
        loca hasequal 0
        }
    - else {
    - gettoken EQ INDEPVARS : REST, parse("=") bind
    - local hasequal 1
    - }
    - if `:list sizeof DEPVARSLIST' {
    = if 1 {
    - _fv_check_depvar `DEPVARSLIST'
    = _fv_check_depvar y_timing_max
    - tsunab DEPVARSLIST : `DEPVARSLIST'
    = tsunab DEPVARSLIST : y_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 DEPVARSLIST y_timing_max
    - local n : word count `varlist'
    = local n : word count y_timing_max
    - if `n'>=`min' & `n'<=`max' { exit }
    = if 1>=1 & 1<=32000 { exit }
    
```

```

> _____ end tsuna
> b _____
    - }
    - if `:list sizeof INDEPVARS' {
    = if 8 {
    - ffunab INDEPVARS : `INDEPVARS'
    = ffunab INDEPVARS : cb_authors_ext estimated wg_ndx_mult
    
```

```

> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open


---


> _____ begin fvuna
> b _____
  - version 11
  - _onColon_parse `0'
  = _onColon_parse INDEPVARS : cb_authors_ext estimated
> wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open


---


> _____ 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 ``INDEPVARS '' == ":" {
    sreturn local after ```after``'
    exit
  }
  - while ```COLON'' != ":" & ```after'' != "" {
  = while ````' != ":" & `":` cb_authors_ext estimated wg
> _ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open'' != "" {
  - 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 estimated wg
> _ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open'' != "" {
  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 estimated wg_
> ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open"


---


> _____ 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 estimated wg_ndx_mult stky_
> pr_rotemberg wlth stky_pr_calvo ln_neq open"
    - syntax [varlist(ts fv default=none)] [, MIN(integer 1)]
> MAX(integer 32000) NAME(string) ]
    - c_local `user' `varlist'
    = c_local INDEPVARS cb_authors_ext estimated wg_ndx_mult
> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
    = if (1 <= 8 & 8 <= 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 FREEPPARM = ```freeparm'''' != ""
= local FREEPPARM = ``''' != ""
- 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 = `"\`y_timing_max\""
- .depvars = `"\`DEPVARSLIST\""
= .depvars = `"\`y_timing_max\""
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = `"\`list retok INDEPVARS\""
= .indepvars = `"\`cb_authors_ext estimated wg_ndx_mult stky
> _pr_rotemberg wlth stky_pr_calvo ln_neq open"
- .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 _____
> 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 RMCOLLOPTNAMES `"""
        - local OPTLIST2 : subinstr local RMCOLLOPTLIST "(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 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' `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 estimated wg_ndx_mult stk
```

```

> y_pr_rotemberg wlth stky_pr_calvo ln_neq open''
  - sreturn local value ```value'''
  = sreturn local value ``cb_authors_ext estimated wg_ndx_
> mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open''
  - class exit ```value'''
  = class exit ``cb_authors_ext estimated wg_ndx_mult stky
> _pr_rotemberg wlth stky_pr_calvo ln_neq open''


---


> _____ end _eqspec.ite
> m _____
  - class exit ``s(value)'''
  = class exit ``cb_authors_ext estimated wg_ndx_mult stky_p
> r_rotemberg wlth stky_pr_calvo ln_neq open''


---


> _____ end _eqlist.e
> q _____
  = local xvarsi ``cb_authors_ext estimated wg_ndx_mult stky_p
> r_rotemberg wlth stky_pr_calvo ln_neq open''
  - 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_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
    - 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 = 1/1 {
- 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_name
> 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 `"y_timing_max"`
    - sreturn local value `''`value'```
    = sreturn local value `"y_timing_max"`
    - class exit `''`value'```
    = class exit `"y_timing_max"`

> _____ end _eqspec.ite
> m _____
    - class exit `''`s(value)```
    = class exit `"y_timing_max"`

> _____ end _eqlist.e
> q _____
    = local depvars y_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_name
> e _____
        - local value `""` `item` ""
        = local value `y_timing_max"
        - sreturn local value `""` `value` ""
        = sreturn local value `y_timing_max"
        - class exit `""` `value` ""
        = class exit `y_timing_max"


---


> _____ end _eqspec.ite
> m _____
        - class exit `""` `s(value)` ""
        = class exit `y_timing_max"


---


> _____ end _eqlist.e
> q _____
        = local eq y_timing_max
        - if !`:length local eq' {
        = if !12 {
            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 y_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 estimated wg_ndx_mult stky_
> pr_rotemberg wlth stky_pr_calvo ln_neq open``
- sreturn local value `""`value`"""
= sreturn local value `""`cb_authors_ext estimated wg_ndx_mu

```

```

> lt stky_pr_rotemberg wlth stky_pr_calvo ln_neq open"
  - class exit ``value'"
  = class exit `cb_authors_ext estimated wg_ndx_mult stky_p
> r_rotemberg wlth stky_pr_calvo ln_neq open"


---


> _____ end _eqspec.ite
> m _____
  - class exit ``s(value)"
  = class exit `cb_authors_ext estimated wg_ndx_mult stky_pr_
> rotemberg wlth stky_pr_calvo ln_neq open"


---


> _____ end _eqlist.e
> q _____
  = fvexpand cb_authors_ext estimated wg_ndx_mult stky_pr_rotemb
> erg wlth stky_pr_calvo ln_neq open if __000007
  - if "`r(tsops)" == "true" {
  = if "" == "true" {
    global ML_preserve no
  }
  - local eq_rhs`i' ```r(varlist)"
  = local eq_rhs1 `cb_authors_ext estimated wg_ndx_mult stky_pr_
> _rotemberg wlth stky_pr_calvo ln_neq open"
  - 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 <= 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' `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 _____
      - 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' `freparm' `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' `depvars' `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_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 y_timing_max
        - local eq_names `eq_names' `eq'
        = local eq_names y_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 = 1/8 {
        - gettoken xvar TMP : TMP
        - local colna `""` `colna` `eq` `:` `xvar`"""
        = local colna `""` y_timing_max:cb_authors_ext"""
        - }

```



```

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 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000009 = J(1,9,0)
- matrix colna `b0' = `colna'
= matrix colna __000009 = y_timing_max:cb_authors_ext y_timin
> g_max:estimated y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_t
> ming_max:wlth y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:op
> en y_timing_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: '' ""
> 0006


---


> _____ begin _mkvec.BuildMa
> t _____
- local vv : display "version " string(_caller()) ":""
- version 6
- args matall error skip
- macro shift 3
- tokenize ``*'', parse(" =")
= tokenize ``__00006'', parse(" =")
- tempname matadd
- local i 1
- while ``i''!="
= while ``__00006''!="
- 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 __0000B __00006 ``initial vector: ''


---


> _____ begin _mkvec.ChkMa
> t _____

```

```

- args matout matin error
- capture di matrix(`matin'[1,1])
= capture di matrix(__00006[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(__00006)!=1 & colsof(__00006)!=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(__00006)) == 1 {
- mat `matout' = `matin'
= mat __0000B = __00006
- }
- else mat `matout' = `matin'
= else mat __0000B = __00006'

```

```

> _____ end _mkvec.ChkMa
> t _____
- local i = `i' + 1
= local i = 1 + 1
-
- mat `matall' = nullmat(`matall') , `matadd'
= mat __0000A = nullmat(__0000A) , __0000B
-
- 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 `y_timing_max:cb_authors_ext y_timing_max:estimated y_
> timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth y_t
> ming_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_max:_c
> ons'"'!="" {
        - `vv' ChkNames `mat' ``matin'"' `"`colname'"' `"`error'"' "
> skip'"' "first"
        = version 18: ChkNames __00000A "__000009" `y_timing_max:cb
> _authors_ext y_timing_max:estimated y_timing_max:wg_ndx_mult y_timing_max:st
> ky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calvo y_timing_max:ln
> _neq y_timing_max:open y_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(`y_timing_max:cb_authors_ext',1,in
> dex(`y_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(1,9,0)
- local i 1

```

```

- while `i' <= `dim' {
= while 1 <= 9 {
- 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(stripes)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`sspec'')
= 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==. & "_"=="_" & `y_timing_max:""!="" {
    `vv' local j = colnumb(`new','`eq1``name'')
    if `j' == . & "`oname'" != "" {

```

```

`vv' local j = colnumb(`new','`eq1``name``')
}
}
}
- 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 ``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[1,1] = 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 ``error'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 <= 9 {
- 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 "_: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(stripe)''
    local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(_00000B,'_:estimated')
- if `j' == . & ``oname'' != "" {
= if 2 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & ``sspec'' != "" {
= if 2 == . & "/_:estimated" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 2==. & "_"=="_" & `y_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 <= 9 {
    - 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 "_:wg_ndx_mult"
        - if (usubstr("`eq'",1,1) != "/") {
        = if (usubstr("_",1,1) != "/") {

```

```

- local sspec "/`eq':`name'"
= local sspec "/_:*wg_ndx_mult"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wg_ndx_mult, 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,"_:*wg_ndx_mult"
> )
- if `j' == . & "`oname'" != "" {
= if 3 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 3 == . & "/_:*wg_ndx_mult" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & `"_eq"=="_" & `"_eq1"!=" {
= if 3==. & "_"=="_" & `y_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 <= 9 {
- 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_rottem

> berg"""
- if `j' == . & ``oname''' != "" {
= if 4 == . & "" != "" {
  `vv' local j = colnumb(`new','`ospec'''')
}
- if `j' == . & ``sspec''' != "" {
= if 4 == . & "/:_:stky_pr_rottemberg" != "" {
  `vv' local j = colnumb(`new','`sspec'''')
}
- if `j'==. & ``eq'''=="_" & ``eq1'''!="" {
= if 4==. & "_"=="_" & ``y_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 <= 9 {
  - 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 "_: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 5 == . & "" != "" {
  `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 5 == . & "/_:*wlth" != "" {
  `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & `eq'=="_" & `eq1'!=""
= if 5==. & "_"=="_" & "y_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 <= 9 {
- 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 "_: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 6 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 6 == . & "/`:stky_pr_calvo" != "" {
    `vv' local j = colnumb(`new','`sspec'')
}

```

```

- if `j'==. & ```eq'"=="_" & ```eq1'"!=" {
= if 6==. & "_"=="_" & ``y_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 <= 9 {
- 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 "_:ln_neq"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:ln_neq"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse ln_neq, 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,"_:ln_neq")
- if `j' == . & "`oname'" != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/_:ln_neq" != "" {
    `vv' local j = colnumb(`new','`sspec'')
}
- if `j'==. & `eq'=="_" & `eq1'!="{
= if 7==. & "_"=="_" & `y_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 <= 9 {
- 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 "_: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(stripes)'
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(_00000B,"_:open")
- if `j' == . & "`oname'" != "" {
= if 8 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 8 == . & "/_:open" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & "`eq'"=="_" & "`eq1'"!=""
= if 8==. & "_"=="_" & "y_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 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,9..9]
- 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(stripes)'
    local ospec `eq':`oname'
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(_00000B,':_:cons')
- if `j' == . & "`oname'" != "" {
= if 9 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 9 == . & "/:_:cons" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & "`eq'"=="_" & "`eq1'"!=""
= if 9==. & "_"=="_" & "y_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 _00000C[1,9] {
    _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[1,9] = 1

```

```

- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,9] = __00000A[1,9]
- }
- 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 = 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(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 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(_00000A))
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(_00000A))
matrix rename `mat' `matout', replace
matrix rename _00000A _000009, replace


---


> _____ end _mkve
> c _____
    -
    tempname bomit
    matrix `bomit' = J(1,:list sizeof colna',0)
    matrix _00000A = J(1,9,0)
    matrix colna `bomit' = `colna'
    matrix colna _00000A = y_timing_max:cb_authors_ext y_timin
> g_max:estimated y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_ti
> ming_max:wlth y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:op
> en y_timing_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)
            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 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 ""
- gettoken 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'' != "" {
- 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 `";` != ":" & `", 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 `", 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.Arppush ``optspec``
    = .options.Arppush "OIM"
    - .names.Arppush ``mname``
    = .names.Arppush "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'
= .__0000B.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
= .__0000C = ._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.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 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
    }
}

```



```

}
}
}
}
- 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 19 {
- 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 -437.385284075989
    - global ML_ll_0 : word 2 of `lf0'
    = global ML_ll_0 : word 2 of 1 -437.385284075989
    - confirm integer number $ML_k0
    = confirm integer number 1
    - confirm number $ML_ll_0
    = confirm number -437.385284075989
    - 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_progra
> 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
> ptoobj
= 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 $ML_dim
    local scores ``$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 ``$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*y_timing_max
> - lngamma(y_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 = y_timing_max - exp(__0000Q) if _
> _000007
    - $ML_ec mlevecsum `lnf' `g' = `score'
    = * mlevecsum __0000L __0000M = __00000
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __0000L==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __0000L __0000N = exp(__0000Q)

```

```

> _____ end poiss_l
> f _____
Iteration 0: Log pseudolikelihood = -364.7159

```

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __0000Q = __0000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __0000L = -exp(__0000Q) + __0000Q*y_timing_max
> - lngamma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __0000L==. {
        exit

```

```

> _____ end poiss_l
> f _____

```

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __0000Q = __0000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __0000L = -exp(__0000Q) + __0000Q*y_timing_max
> - lngamma(y_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*y_timing_max
> - lngamma(y_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 = y_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 = -364.69076


---


> _____ 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*y_timing_max
> - lngamma(y_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*y_timing_max
> - lngamma(y_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*y_timing_max
> - lngamma(y_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 = y_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
}
- mlmatsum `lnf' `H' = exp(`xb')
= mlmatsum __00000L __00000N = exp(__00000Q)

```

```

> _____ end poiss_l
> f _____
Iteration 2: Log pseudolikelihood = -364.69076

```

```

> _____ 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 __00000S = __000007
        - }
        - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname
> (`depvar') buildfvinfo
    = ereturn post __00000Q __00000R [], esample(__00000S) de
> pname(y_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 17 {
        - ereturn scalar ll_0 = $ML_ll_0
        = ereturn scalar ll_0 = -437.385284075989
        - 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 !17 | 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])"
- }
- }
- tempfile 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

```

```

        }
    }
- gettok tok : 0, parse(" (,) bind
- local single single
- local zero `"\`0``"
= local zero `"\`([#1]), `"
- if `"\`tok`"" == "(" {
= if `"\`" == "(" {
- local single
- while `"\`tok`"" == "(" {
= while `"\`" == "(" {
- gettok tok 0 : 0, parse(" (,) match(paren) bind
- local eqns `"\`eqns`"\`tok`"""
= local eqns `"\`[#1]`"""
- gettok tok : 0, parse(" (,) bind
- }
- while `"\`tok`"" == "(" {
= while `"\`" == "(" {
    gettok tok 0 : 0, parse(" (,) match(paren) bind
    local eqns `"\`eqns`"\`tok`"""
    gettok tok : 0, parse(" (,) bind
    }
- if `"\`tok`"" != "," & `"\`tok`"" != "" {
= if `"\`" != "," & `"\`" != "" {
    local single single
}
- }
- if `"\`single`""==`"\`single`" {
= if `"\`"==`"\`single`" {
    local eqns
    local 0 `"\`zero`"""
    while `"\`tok`"" != "" & `"\`tok`"" != "," {
        gettok tok 0 : 0, parse(" ,") bind
        local eqns `"\`eqns`"\`tok`"""
        gettok 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
> mbined"
        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.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(1
> ocal 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' 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
    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
- tempfile 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'
> 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) 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'
= di as txt _col(12) "chi2(`%3.0f __00000V') =" as r
> es %8.2f __00000U
- 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_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 $ML_noadj
    }
    -
    - else if `:length global ML_ll_0' {
= else if 17 {
    if ```maxmin'`` == "minimize" {
        ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
    }
    else {
        ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
    }
    ereturn scalar p = chi2tail(e(df_m), e(chi2))
    ereturn local chi2type "LR"
}
-
- if `:length global ML_wexp' {
= if 0 {
    ereturn local wtype `"$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 -437.385284075989
>         - global S_E_chi2 = e(chi2)
>         - global S_E_mdf = e(df_m)
>         - global S_E_pr2 `e(r2_p)'
>         = global S_E_pr2 .1662024978318156
>         - global S_E_nobs = e(N)

```

```

- global S_E_tdf = e(N)
- global S_E_offset `e(offset)'
= global S_E_offset
- global S_E_depvar `e(depvar)'
= global S_E_depvar y_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 y_timing_max cb_authors_
> ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open [
> ] if __000000, nodisplay      robust"


---


> _____ end poissos
> 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 "___"==""
    `vppoi' 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 .8283739677697126<. {
- mat `b0' = (`c', 0)
= mat __000003 = (.8283739677697126, 0)
- }
- else mat `b0' = (0, 0)
= else mat __000003 = (0, 0)
- mat colnames `b0' = `y':_cons ln`parm':_cons
= mat colnames __000003 = y_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 (y_timing_max: y_timing_max=, ) /lna
> lpha if __000000 , collinear missing max nooutput nopreserve wald(0) init(_
> 000003, copy) search(off) robust nocnsnotes negh

```

```

> _____ begin m
> l _____

```

```

- if _caller()>=11 {
- mopt `0'
    = mopt model e2 nbreg_lf (y_timing_max: y_timing_max=, ) /lnalpha if
> __000000 , collinear missing max nooutput nopreserve wald(0) init(__000003,
> 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 (y_timing_max: y_timing
> _max=, ) /lnalpha if __000000 , collinear missing max nooutput nopreserve w
> ald(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 42 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq'),1,1) == "/" {
= if bsubstr(trim("(y_timing_max: y_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(`y_timing_max: y_timing_max=, ')
- if bsubstr(`p2',1,1) == "," {
= if bsubstr("y_timing_max: y_timing_max=, ),1,1) == "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim(``p2'")
}
- if ``p1``p2'"' == "()" {
= if `(y_timing_max: y_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
    }
    }
}
- 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(NOCNStant FREEParm) eqargopts(
> OFFset EXPosure) noneedvarlist numdepvars(0) needequal
= __000006 = ._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

> ----- begin _optlist.addop
> t -----
    - }
    - .eq_opts_allowed.adopt `opt', passthru
    = .eq_opts_allowed.adopt EXPosure, passthru
----- end _optlist.addop

> ----- 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

> ----- begin _optlist.addop
> t -----
    - }
    - local i 0
    - foreach opt of local markopts {
        .mark_opts.adopt `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'
    = .__000006.parse  (y_timing_max: y_timing_max=, ) ("lnalpha":, f
> reparm)


---


> _____ 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``'
                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(600013844940):y_timing_max: y_timing_m
> ax=


---


> _____ begin _eqspec.pars

```

```

> e -----
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(600013844940):y_timing_max: y_timing_m
> ax=
-----
> ----- 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(600013844940)"' == ":" {
    sreturn local after `"`after'"'
    exit
}
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `""'" != ":" & `":y_timing_max: y_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 `":;"' != ":" & `":y_timing_max: y_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(600013844940)"""
    - sreturn local after `""`after"""
    = sreturn local after `""`y_timing_max: y_timing_max"""


---


> _____ end _on_colon_pars
> e _____
    - local ol `s(before)`
    = local ol __key(600013844940)
    - 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 `""y_timing_max: y_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("y_timing_max") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST' {
= if 2 {
- if strpos(`NAME', ":") {
= if strpos(`y_timing_max', ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname y_timing_max


---


> _____ begin _eqspec._confirm_eqnam
> e _____
- version 9.2
- capture confirm number `0'
= capture confirm number y_timing_max
- if (! c(rc)) exit
- local hasdot = strpos(`"\`0'", ".")
= local hasdot = strpos(`"y_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 "y_timing_max" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if (`:length local DEPVARS' == 0 & `n_depdevs') {
    = if (12 == 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_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
}
loca 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 y_timing_max
- tsunab DEPVARs : `DEPVARs'
= tsunab DEPVARs : y_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 y_timing_max
- local n : word count `varlist'
= local n : word count y_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }


---


> _____ end tsuna
> b _____
    -
    - if `:list sizeof INDEPVARS' {
= if 0 {
        fvn unab 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 = `""y_timing_max"""
- .depvars = `""`DEPVARS"""
= .depvars = `""y_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(600013844940):"lnalpha":, freeparm

> _____ begin _eqspec.pars
> e _____
- version 9.2
- _onColon_parse `0'
= _onColon_parse __key(600013844940):"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(600013844940)"' == ":" {
    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":, freparm"" != "" {
    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(600013844940)""
- sreturn local after `""`after"""
= sreturn local after `""`lnalpha":, freparm"""

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013844940)
    - 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) EXPosur
> 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 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 `""`lnalpha":, freeparm"""
- 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 lalpha

```

```

> _____ begin _eqspec._confirm_eqnam
> e _____
    - version 9.2
    - capture confirm number `0'
= capture confirm number lalpha
    - if (! c(rc)) exit
    - local hasdot = strpos(```0''', ".")
= local hasdot = strpos(`lalpha'', ".")
    - 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_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_depv
> 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 = `""' != ""
- 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 OPTIONS `""
- 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 = ```DEPVAR$``'
= .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.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
> 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)" "(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 __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 EXPposure 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_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 < 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' `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 = + 0
- 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 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 `"""
- 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 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 = 1 + 0
- if "`noconsi'" == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- sreturn local value `"\`dim"`
= sreturn local value `"2"
- class exit `"\`s(value)"`
= class exit `"2"


---


> _____ 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_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 `y_timing_max"""
- sreturn local value `""`value"""
= sreturn local value `y_timing_max"""
- class exit `""`value"""
= class exit `y_timing_max"""


---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)`"""
= class exit `y_timing_max"""


---


> _____ end _eqlist.e
> q _____
= local depvars y_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.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 ``y_timing_max''
- sreturn local value ```value''
= sreturn local value ``y_timing_max''
- class exit ```value''
= class exit ``y_timing_max''

```

```

> _____ end _eqspec.ite
> m _____
  - class exit `"\`s(value)"`
  = class exit `"\y_timing_max"`

> _____ end _eqlist.e
> q _____
  = local eq y_timing_max
  - if !`:length local eq' {
  = if !12 {
    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 y_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 `"""
        - 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 __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 `"(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 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      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 {

```

```

> _____ 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_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           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.item
> 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 freparm


---


> _____ 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 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           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 `""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  y_timing_max
- local eq_names `eq_names' `eq'
= local eq_names  y_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 `"`y_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_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_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_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 y_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 _____
= fvexpand 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' `.`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 `"(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 freeparm


---


> _____ 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 y_timing_max
- local eq_names `eq_names' `eq'
= local eq_names y_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 `"  
y_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 = y_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
> rrror("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
- tempfile 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 ``y_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 = y_timing_max:_cons /lnalph
> a
- }
- }
- 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 = y_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)
            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 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
    - _onColon_parse `0'
    = _onColon_parse , argoptlist(CLuster) optlist(0IM OPG Robust)
> old : , 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 `""' != ":" & `":` , 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 `":'" != ":" & `", 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 `", 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) PWallowed(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'.adopt `name'
      = .__000009.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'
      = .__000009.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'
    = .__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
    = .__00000A = ._optlist.new
    - local argoptlist : list uniq argoptlist
    - foreach name of local argoptlist {
    - .`a'.addopt `name'
    = .__00000A.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.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 pwallowed : list uniq pwallowed
    - 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","oim",
> `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.ParseUsemi
> 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 __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 D0OPT 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() `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 llnalpha 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__0000S) - __0000S*ln1p(exp(__0000Q+__0000R)) -
> y_timing_max*ln1p(exp(-__0000Q-__0000R))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 2 == 0 | __0000K==. { exit }
    - tempname alpha
    - tempvar mu p
    - quietly {
    - gen double `mu' = exp(`xb') if $ML_samp
    = gen double __0000U = exp(__0000Q) if __00005
    - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
    = gen double __0000V = 1/(1+exp(__0000Q+__0000R)) if __000
> 05
    - if `lnalpha'<-20 {
    = if __0000R<-20 {
        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
    - else {
        replace `sc1' = `p'*(`y'-`mu') if $ML_samp
        replace __0000N = __0000V*(y_timing_max-__0000U) if __000
> 005
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
        = replace __00000 = __0000S*(digamma(__0000S) - digamma(y_t
> iming_max+__0000S) - ln(__0000V)) + __0000V*(y_timing_max-__0000U) if __
> 00005
        - }
        - }
        - $ML_ec tempname g1 g2
        = * tempname g1 g2
        - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
        = * mlvecsum __0000K = __0000N, eq(1)
        - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
        = * mlvecsum __0000K = __00000, eq(2)
        - $ML_ec matrix `g' = (`g1','g2')
        = * matrix __0000L = (,)
        - if `todo' == 1 | `lnf'==. { exit }
        = if 2 == 1 | __0000K==. { 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*(y_timing_max-__0000U)+1), eq(1)
            - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
            = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(y
> _timing_max-__0000U), 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(y_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(y_timing_m
> ax+__00000S) - trigamma(__00000S)) + __00000U*__00000V*(__00000W*__00000V*(
> y_timing_max-__0000U)- 1), eq(2)
                -
            - matrix `H' = (`d11', `d12' \ `d21', `d22')
            = matrix __00000M = (__00000X, __00000Y \ __00000Y', __00000Z)

```

```

> _____ end nbreg_l
> f _____
Iteration 0: Log pseudolikelihood = -446.52804

```

```

> _____ 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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 "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = msum __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000K==. { exit }
    _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnalpha')

```

```

= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -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 __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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 "y_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -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 __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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*(y_timing_max-__00000U) if __000
> 005
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __000000 = __00000S*(digamma(__00000S) - digamma(y_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(y_timing_max-__00000U) if __
> 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*(y_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*(y
> _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(__0000S) - d
> igamma(y_timing_max+_0000S) - ln(__0000V) - __0000S*(trigamma(y_timing_m
> ax+_0000S) - trigamma(__0000S))) + __0000U*__0000V*(__0000W*__0000V*(
> y_timing_max-_0000U)- 1), eq(2)
      - }
      - matrix `H' = (`d11','d12'\ `d12','d22')
= matrix __0000M = (__0000X,__0000Y \ __0000Y',__0000Z)



---


> _____ end nbreg_l
> f _____
Iteration 1: Log pseudolikelihood = -414.23222
_____ 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 __0000Q = __0000J, eq(1)
      - mleval `lnalpha' = `b', eq(2) scalar
= mleval __0000R = __0000J, eq(2) scalar
      - local y "$ML_y1"
= local y "y_timing_max"
      - scalar `m' = exp(-`lnalpha')
= scalar __0000S = exp(-__0000R)
      - if `lnalpha' < -20 {
= if __0000R < -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 __0000K = lngamma(__0000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__0000S) - __0000S*ln1p(exp(__0000Q+__0000R)) -
> y_timing_max*ln1p(exp(-__0000Q-__0000R))
      }
      - 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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 __000
> 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*(y_timing_max-__00000U) if __000
> 005
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000 = __00000S*(digamma(__00000S) - digamma(y_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(y_timing_max-__00000U) if __
> 000005
- }
- }
- $ML_ec tempfile g1 g2
= * tempfile g1 g2
- $ML_ec mlecsu `lnf' `g1' = `sc1', eq(1)
= * mlecsu __00000K = __00000N, eq(1)
- $ML_ec mlecsu `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*(y_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*(y
> _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(y_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(y_timing_m
> ax+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__00000V*(
> y_timing_max-__00000U)- 1), eq(2)
            -
- matrix `H' = (`d11','d12'\ `d12','`d22')
= matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)



---


> _____ end nbreg_l
> f _____
Iteration 2: Log pseudolikelihood = -414.22879


---


> _____ 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -

```

```

> y_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 lnlalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnlalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnlalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnlalpha' < -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'+`lnlalpha')) - `y'*ln1p(exp(-`xb'-`lnlalpha'))
        = mlsum __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_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'+`lnlalpha')) if $ML_samp
        = gen double __00000V = 1/(1+exp(__00000Q+__00000R)) if __0000
> 05
    - if `lnlalpha'<-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 __0000N = __0000V*(y_timing_max-__0000U) if __000
> 005
    - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ') + `p'*(`y'-'mu') if $ML_samp
        = replace __00000 = __0000S*(digamma(__0000S) - digamma(y_t
> iming_max+__0000S) - ln(__0000V)) + __0000V*(y_timing_max-__0000U) if __
> 000005
    - }
    - }
    - $ML_ec tempname g1 g2
    = * tempname g1 g2
    - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
    = * mlvecsum __0000K = __0000N, eq(1)
    - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
    = * mlvecsum __0000K = __00000, eq(2)
    - $ML_ec matrix `g' = (`g1', `g2')
    = * matrix __0000L = (,)
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __0000K==. { exit }
    - tempname alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __0000W = exp(__0000R)
    - if `lnalpha' < -20 {
    = if __0000R < -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 __0000K __0000X = __0000U*__0000V*(__0000W*__0
> 0000V*(y_timing_max-__0000U)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'mu'), eq(1,2
> )
        = mlmatsum __0000K __0000Y = __0000W*__0000U*__0000V^2*(y
> _timing_max-__0000U), 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 __0000K __0000Z = __0000S*(digamma(__0000S) - d
> igamma(y_timing_max+__0000S) - ln(__0000V) - __0000S*(trigamma(y_timing_m

```

```

> ax+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__00000V*(  

> y_timing_max-__00000U)- 1), eq(2)  

    - }  

    - matrix `H' = (`d11','d12' \ `d12','d22')  

    = matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)  



---


> _____ end nbreg_l  

> f _____  

Iteration 3: Log pseudolikelihood = -414.22879  



---


> _____ 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 __00000S = __000005  

    - }  

    - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname(`de  

> pvar') buildfvinfo  

    = ereturn post __00000Q __00000R [], esample(__00000S) depnam  

> e(y_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 9 > 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[1,9] = __000002[1,9] + __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 y_timing_max __000005 __000003[1,2] [] if __000000, nobs(221)

```

```

> _____ 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']"
}
-tempname llnalpha m
scalar `llnalpha' = `b0'
scalar __000006 = __000003[1,2]
local bound -20
if `llnalpha' < `bound' { scalar `llnalpha' = `bound' }
if __000006 < -20 { scalar __000006 = -20 }
scalar `m' = exp(-`llnalpha')
scalar __000007 = exp(-__000006)
qui replace `z' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m') -
`m'*ln1p(exp(`z'+`llnalpha')) - `y'*ln1p(exp(-`z'-`llnalpha')) `if'
= qui replace __000005 = lngamma(__000007+y_timing_max) - lngamma(y_ti
ming_max+1) - lngamma(__000007) - __000007*ln1p(exp(__000005+__000006)) - y_
timing_max*ln1p(exp(-__000005-__000006)) if __000000
summarize `z' `wt' `if', meanonly
summarize __000005 if __000000, meanonly
if r(N) != `nobs' { exit }
if r(N) != 221 { 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) > __000004 & r(lnf)<. {
-local initopt "init(`bp')"
= local initopt "init(__000002)"
-
-
- if "`initopt'"=="" {
= if "init(__000002)"=="" {
local initopt "init(`b0')"
}
-
-
- else {
tempname 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 (y_timing_max: y_timing_max=cb_author
> s_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open
> , ) /lnalpha if __000000 [], collinear missing max nooutput nopreserve init
> (__000002) search(off) robust vce(robust) continue title(Negative binomial
> regression) diparm(lnalpha, exp label("alpha")) negh
```

```

> _____ begin m
> l _____
- if _caller()>=11 {
- mopt `0'
= mopt model e2 nbreg_lf (y_timing_max: y_timing_max=cb_authors_ext es
> timated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, ) /ln
> alpha if __000000 [], collinear missing max nooutput nopreserve init(__00000
> 2) search(off) robust vce(robust) continue title(Negative binomial regress
> ion) diparm(lnalpha, exp label("alpha")) 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 (y_timing_max: y_timing
> _max=cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_cal
> vo ln_neq open, ) /lnalpha if __000000 [], collinear missing max nooutput n
> opreserve init(__000002) search(off) robust vce(robust) continue title(Neg
> ative binomial regression) diparm(lnalpha, exp label("alpha")) 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) 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 `dof' == "" {
- local dof `gdof'
= local dof `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 | `single' == "" {
- local 0 `", `options'
= local 0 `", search(off)'
- syntax [, diparm(string asis) * ]
- }
- else {
    local diparm ``after'
    }
- }
- while ``diparm' != "" {
= while `single' != "" {
    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` `goptions
> '
    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 `":lnalpha, exp label("alpha")"""
- forval i = 1/`k' {
= forval i = 1/1 {
- sreturn local diparm`i' `""`diparm`i"""
= sreturn local diparm1 `":lnalpha, 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 `":lnalpha, exp label("alpha")"""
    - }
    - local ndiparm `s(k)'
= local ndiparm 1
    - 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 127 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim("`eq'"),1,1) == "/" {
= if bsubstr(trim("(y_timing_max: y_timing_max=cb_authors_ext esti
> mated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, )"),1,1

```



```

        }
    }
- }
- 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 `moptobj' != "" {
    global ML_sample `moptobj'$ML_sample
    }
- if `moptobj' != "" {
= if `moptobj' != "" {
    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(NOCONSTANT FREEParm) eqargopts(
> OFFset EXposure) noneedvarlist numdepvars(0) needequal
= .__000007 = ._eqlist.new, eqopts(NOCONSTANT FREEParm) eqargopts(
> OFFset EXposure) noneedvarlist numdepvars(0) needequal

```

```

-class {
-instance:
-    array      n_devars
-    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.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.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.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.adopt `opt', passthru
    }
    - local i 0
    - foreach opt of local smarkopts {
        .smark_opts.adopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmcoll_opts {
        .rmcoll_opts.adopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmdcoll_opts {
        .rmdcoll_opts.adopt `opt', passthru
    }
    - .n_depvars.Arrdropall
    - if ``numdepvars'' != "" {
    = if "0" != "" {
    - foreach ndep of local numdepvars {
    - .n_depvars.Arrpush `ndep'

```

```

= .n_devars.Arppush 0
- }
- }
- else .n_devars.Arppush 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 (y_timing_max: y_timing_max=cb_authors_ext esti
> mated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open, ) ("lna
> lpha":, 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"""

```

```

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(600013847200):y_timing_max: y_timing_m
> ax=cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo
> ln_neq open



---


> _____ begin _eqspec.pars
> e _____
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(600013847200):y_timing_max: y_timing_m
> ax=cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo
> ln_neq open



---


> _____ 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(600013847200)'' == ":" {
    sreturn local after ```after''''"
    exit
}
- while ```COLON'''' != ":" & ```after'''' != "" {
= while `""'' != ":" & `":y_timing_max: y_timing_max=cb_autho
> rs_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq ope
> n'' != "" {
        - 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 `":;" != ":" & `":y_timing_max: y_timing_max=cb_autho
> rs_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq ope
> n'' != "" {
        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(600013847200)"'
        - sreturn local after `""`after"""
        = sreturn local after `y_timing_max: y_timing_max=cb_author
> s_ext estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open
> ""

> _____ end _on_colon_pars
> e _____
        - local ol `s(before)'
        = local ol __key(600013847200)
        - 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) EXPosur
> 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 `y_timing_max: y_timing_max=cb_authors_ext estimate
> d wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open"
    - 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(`y_timing_max') == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST' {
= if 9 {
- if strpos(`NAME', ":") {
= if strpos(`y_timing_max', ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname y_timing_max

```

```

> _____ begin _eqspec._confirm_eqnam
> e _____
- version 9.2
- capture confirm number `0'
= capture confirm number y_timing_max
- if (! c(rc)) exit
- local hasdot = strpos(`0', ".")
= local hasdot = strpos(`y_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 "y_timing_max" == "=" {
            local REST : copy local anything
            local DEPVARS
        }
        - if (`:length local DEPVARS' == 0 & `n_depvars') {
        = if (12 == 0 & 0) {
            di as err "nothing found where depvar expected"
            exit 198
        }
        - if `":REST"' == "" {
        = if `":cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open"' == "" {
            if 0`needequal' {
                if `needvarlist' | (`:length local DEPVARS' != 0 & `n_depvs
> 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("=".)
        bind
        - local hasequal 1

```

```

        - }
        - if `:list sizeof DEPVARs' {
        = if 1 {
        - _fv_check_depvar `DEPVARs'
        = _fv_check_depvar y_timing_max
        - tsunab DEPVARs : `DEPVARs'
        = tsunab DEPVARs : y_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 y_timing_max
        - local n : word count `varlist'
        = local n : word count y_timing_max
        - if `n'>=`min' & `n'<=`max' { exit }
        = if 1>=1 & 1<=32000 { exit }


---


> _____ end tsuna
> b _____
        - }
        - if `:list sizeof INDEPVARs' {
        = if 8 {
        - fvunab INDEPVARs : `INDEPVARs'
        = fvunab INDEPVARs : cb_authors_ext estimated wg_ndx_mult stky
> _pr_rotemberg wlth stky_pr_calvo ln_neq open


---


> _____ begin fvuna
> b _____
        - version 11
        - _on_colon_parse `0'
        = _on_colon_parse INDEPVARs : cb_authors_ext estimated wg_nd
> x_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open


---


> _____ begin _on_colon_pars
> 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 estimated wg_ndx_
> mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open'' != "" {
    - 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 estimated wg_ndx_
> mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open'' != "" {
    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 estimated wg_ndx_m
> ult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open"


---


> _____ 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 estimated wg_ndx_mult stky_pr_ro
> temberg wlth stky_pr_calvo ln_neq open"
        - syntax [varlist(ts fv default=none)] [, MIN(integer 1) MAX
> (integer 32000) NAME(string) ]
        - c_local `user' `varlist'
        = c_local INDEPVARS cb_authors_ext estimated wg_ndx_mult stk
> y_pr_rotemberg wlth stky_pr_calvo ln_neq open
        - local n : list sizeof varlist
        - if (`min' <= `n' & `n' <= `max') exit
        = if (1 <= 8 & 8 <= 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 = `y_timing_max'
- .depvars = ```DEPVARS'''
= .depvars = `y_timing_max'
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ``:list retok INDEPVARS'''
= .indepvars = `cb_authors_ext estimated wg_ndx_mult stky_pr_
> rotemberg wlth stky_pr_calvo ln_neq open"
- .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':`E0_`i''
= .eq_list[2].parse __key(600013847200):"lnalpha":, freeparm
_____
> _____ begin _eqspec.pars
> e _____
- version 9.2
- _onColon_parse `0'
= _onColon_parse __key(600013847200):"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(600013847200)"' == ":" {
    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(600013847200)`"'
    - sreturn local after `"`after`"'
    = sreturn local after `""lnalpha":, freeparm`'


---


> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013847200)
    - 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) EXPosure
> 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 freeparm offset exposure
        - }
        - local namelist : list uniq namelist
        - sreturn local namelist `""`namelist"""
        = sreturn local namelist `"noconstant freeparm offset exposu
> re"
        - 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 `""lnalpha":, freeparm"
- 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("=".)
- if ``DEPVARS'' == "=" {
= if "" == "=" {
    local REST : copy local anything
    local DEPVARS
}
- if (:length local DEPVARS' == 0 & `.n_depv') {
= 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 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' {
gettken YY anything : anything
local DEPVARS `DEPVARS' `YY'
}
local INDEPVARS : list retok anything
}
- loca hasequal 0
-
-
- else {
gettken 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 = `"$lnalpha"'
- .depvars = `"$DEPVAR$"'
= .depvars = `"""
- .hasequal = `hasequal'
= .hasequal = 0
- .indepvars = `":list retok INDEPVARS"'
= .indepvars = `"""
- .other_markvars = `":list retok OTHER"'
= .other_markvars = `"""
- .nocons = `NOCONS'
= .nocons = 0
- .if = `"$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.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 `""`.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)" "(
> 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 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_nam
> e _____
- local value `"\`item``"
= local value `"\`cb_authors_ext estimated wg_ndx_mult stky_pr_
> _rotemberg wlth stky_pr_calvo ln_neq open``"
- sreturn local value `"\`value``"
= sreturn local value `"\`cb_authors_ext estimated wg_ndx_mult
> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open``"
- class exit `"\`value``"
= class exit `"\`cb_authors_ext estimated wg_ndx_mult stky_pr_
> rotemberg wlth stky_pr_calvo ln_neq open``"


---


> _____ end _eqspec.ite
> m _____
- class exit `"\`s(value)`"
= class exit `"\`cb_authors_ext estimated wg_ndx_mult stky_pr_ro_
> temberg wlth stky_pr_calvo ln_neq open``"


---


> _____ end _eqlist.e
> q _____
= local xvarsi `"\`cb_authors_ext estimated wg_ndx_mult stky_pr_ro_
> temberg wlth stky_pr_calvo ln_neq open``"

```

```

- 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' `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
    - 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_name
> 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' `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_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' `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 = 9 + 0
- if "`noconsi'" == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- sreturn local value `"`dim`"'
= sreturn local value `"10"
- class exit `"`s(value)`"'
= class exit `"10"

> _____ end _eqlist.di
> m _____
= global ML_dim = 10
- 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

```



```

= 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 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 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 `y_timing_max"""
- sreturn local value `""`value"""
= sreturn local value `y_timing_max"""
- class exit `""`value"""
= class exit `y_timing_max"""


---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)"""
= class exit `y_timing_max"""


---


> _____ end _eqlist.e

```

```

> q -----
= local eq y_timing_max
- if `:length local eq' {
= if !12 {
    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 y_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' `devars' `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 estimated wg_ndx_mult stky_pr_r
> otemberg wlth stky_pr_calvo ln_neq open"""
    - sreturn local value `""`value"""
    = sreturn local value `cb_authors_ext estimated wg_ndx_mult s
> tky_pr_rotemberg wlth stky_pr_calvo ln_neq open"""
    - class exit `""`value"""
    = class exit `cb_authors_ext estimated wg_ndx_mult stky_pr_ro
> temberg wlth stky_pr_calvo ln_neq open"""


---


> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `cb_authors_ext estimated wg_ndx_mult stky_pr_rote
> mberg wlth stky_pr_calvo ln_neq open"""


---


> _____ end _eqlist.e
> q _____
    = fvexpand cb_authors_ext estimated wg_ndx_mult stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open if __000006
    - if "`r(tsops)" == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)"""
    = local eq_rhs1 `cb_authors_ext estimated wg_ndx_mult stky_pr_rot
> emberg wlth stky_pr_calvo ln_neq open"""
    - 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' `freparm' `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_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           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 freparm


---


> _____ 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 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           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 `""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  y_timing_max
    - local eq_names `eq_names' `eq'
    = local eq_names  y_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 = 1/8 {
        - gettoken xvar TMP : TMP
        - local colna `"\`colna' `eq':`xvar```"
        = local colna `"\`y_timing_max:cb_authors_ext``"
        - }
        - gettoken xvar TMP : TMP
        - local colna `"\`colna' `eq':`xvar```"
        = local colna `"\`y_timing_max:cb_authors_ext` y_timing_max:estimate
> d"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar```"
    = local colna `"\`y_timing_max:cb_authors_ext` y_timing_max:estimate
> d y_timing_max:wg_ndx_mult"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar```"
    = local colna `"\`y_timing_max:cb_authors_ext` y_timing_max:estimate
> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar```"
    = local colna `"\`y_timing_max:cb_authors_ext` y_timing_max:estimate
> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth"
> "
    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar```"
    = local colna `"\`y_timing_max:cb_authors_ext` y_timing_max:estimate
> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth
> y_timing_max:stky_pr_calvo"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `"\`colna' `eq':`xvar```"

```

```

= local colna `"` y_timing_max:cb_authors_ext y_timing_max:estimate
> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth
> y_timing_max:stky_pr_calvo y_timing_max:ln_neq"
- }
- gettoken xvar TMP : TMP
- local colna `"``colna' `eq':`xvar`"""
= local colna `"` y_timing_max:cb_authors_ext y_timing_max:estimate
> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth
> y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open"
- }
- 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 `"` y_timing_max:cb_authors_ext y_timing_max:estimate
> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth
> y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_ma
> x:_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_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 y_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 -----
= 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_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      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` `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_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 freeparm

```

```
> _____ end _eqspec._check_eq_item_name
> e _____
>   - local value `""`item"""
>   = local value `""1"""
>   - sreturn local value `""`value"""
>   = sreturn local value `""1"""
>   - class exit `""`value"""
>   = class exit `""1"""

> _____ end _eqspec.item
> m _____
>   - class exit `""`s(value)"""
>   = class exit `""1"""

> _____ end _eqlist.e
> q _____
>   = local eq_freeparm2 1
>   - local lhs `lhs` `depvars'
>   = local lhs y_timing_max
>   - local eq_names `eq_names` `eq'
>   = local eq_names y_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 `""`y_timing_max:cb_authors_ext` `y_timing_max:estimate

> d y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlt
```

```

> y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_ma
> x:_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 -1 > 0 & 0 {
  opts_exclusive "waldtest() lf0()"
}
- if `:length local continue' {
= if 8 {
- if `:length local init' {
= if !8 {
  tempname init
  local ub0 `init'
}
- 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 -414.2287919313009
- }
- local ub0
- }
- if `:length local init' {
= if 8 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __00000B = J(1,10,0)
- matrix colna `b0' = `colna'
= matrix colna __00000B = y_timing_max:cb_authors_ext y_timing_ma
> x:estimated y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing
> _max:wlth y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y
> _timing_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 `"y_timing_max:cb_authors_ext y_timing_max:estimated y_timi
> ng_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wlth y_timing
> _max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_max:_cons
> /lnalpha""!="" {
      - `vv' ChkNames `mat' "`matin'" `"`colname"" `"`error"" "skip
> '"" `first"
      = version 18: ChkNames __00000C "__00000B" `y_timing_max:cb_aut
> hors_ext y_timing_max:estimated y_timing_max:wg_ndx_mult y_timing_max:stky_p
> r_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calvo y_timing_max:ln_neq
> y_timing_max:open y_timing_max:_cons /lnalpha"" `initial vector: '"" fi
> rst"
  _____

```

```

> _____ 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(`"y_timing_max:cb_authors_ext"',1,index(
> `"y_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(1,10,0)
  - local i 1
  - while `i' <= `dim' {
  = while 1 <= 10 {

```

```

- 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 "y_timing_max" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "y_timing_max:cb_authors_ext"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/y_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(stripes)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000D,"y_timing_max:cb_authors_ext")
> hors_ext")
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/y_timing_max:cb_authors_ext" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j' == . & ``eq''== "_" & ``eq1''!= "" {
= if 1 == . & "y_timing_max"== "_" & "y_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 __00000E[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 __00000E[1,1] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,1] = __00000C[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 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,2..2]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/"
= if "y_timing_max" == "/"
    local spec "/`name'""

```

```

        }
    - else {
    - local spec ``eq':`name''
    = local spec "y_timing_max:estimated"
    - if (usubstr(``eq'',1,1) != "/") {
    = if (usubstr("y_timing_max",1,1) != "/") {
    - local sspec `/`eq':`name''
    = local sspec "/y_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(stripes)''
        local ospec ``eq':`oname''
        }
    - }
    - `vv' local j = colnumb(`new','`spec')
    = version 18: local j = colnumb(__00000D,"y_timing_max:estima
> ted")
        - if `j' == . & ``oname'' != "" {
        = if 2 == . & "" != "" {
            `vv' local j = colnumb(`new','`ospec')
            }
        - if `j' == . & ``sspec'' != "" {
        = if 2 == . & "/y_timing_max:estimated" != "" {
            `vv' local j = colnumb(`new','`sspec')
            }
        - if `j'==. & ```eq''== "_" & ```eq1''!= "" {
        = if 2==. & ``y_timing_max''== "_" & ``y_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 <= 10 {
- 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 "y_timing_max" == "/"
local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "y_timing_max:wg_ndx_mult"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/y_timing_max:wg_ndx_mult"
-
```

```

    - }
    - local oname
    - local ospec
    - capture _msparse `name', noomit
    = capture _msparse wg_ndx_mult, 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,``y_timing_max:wg_ndx
> _mult'''')
    - if `j' == . & ```oname''' != "" {
    = if 3 == . & "" != "" {
        `vv' local j = colnumb(`new','`ospec'''')
        }
    - if `j' == . & ```sspec''' != "" {
    = if 3 == . & "/y_timing_max:wg_ndx_mult" != "" {
        `vv' local j = colnumb(`new','`sspec'''')
        }
    - if `j'==. & ```eq'''=="_" & ```eq1'''!="" {
    = if 3==. & ```y_timing_max'''=="_" & ```y_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 <= 10 {
    - 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 "y_timing_max" == "/" {
        local spec "/`name'"
    }
    - else {
        - local spec "`eq':`name'"
        = local spec "y_timing_max:stky_pr_rotemberg"
        - if (usubstr("`eq'",1,1) != "/") {
        = if (usubstr("y_timing_max",1,1) != "/") {
            - local sspec "/`eq':`name'"
            = local sspec "/y_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(stripes)'
                local ospec "`eq':`oname'"

```

```

        }
    - }
    - `vv' local j = colnumb(`new','`spec')
    = version 18: local j = colnumb(__00000D,"y_timing_max:stky_p
> r_rotemberg")
    - if `j' == . & "`oname'" != "" {
    = if 4 == . & "" != "" {
        `vv' local j = colnumb(`new','`ospec')
    }
    - if `j' == . & "`sspec'" != "" {
    = if 4 == . & "/y_timing_max:stky_pr_rotemberg" != "" {
        `vv' local j = colnumb(`new','`sspec')
    }
    - if `j'==. & ``eq''== "_" & ``eq1''!= "" {
    = if 4==. & "y_timing_max"== "_" & "y_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 <= 10 {
        - 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 "y_timing_max" == "/" {
            local spec "/`name'"
        }
        - else {
            - local spec "`eq':`name'"
            = local spec "y_timing_max:wlth"
            - if (usubstr("`eq'",1,1) != "/") {
            = if (usubstr("y_timing_max",1,1) != "/") {
                - local sspec "/`eq':`name'"
                = local sspec "/y_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,"y_timing_max:wlth"
> )
    - if `j' == . & "`oname'" != "" {
    = if 5 == . & "" != "" {
        `vv' local j = colnumb(`new','`ospec')"
    }

```

```

- if `j' == . & "`sspec'" != "" {
= if 5 == . & "/y_timing_max:wlth" != "" {
  `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & "`eq'"=="_" & "`eq1'"!=""
= if 5==. & "y_timing_max"=="_" & "y_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 __0000E[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 __0000E[1,5] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,5] = __0000C[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 <= 10 {
- 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 "y_timing_max" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "y_timing_max:stky_pr_calvo"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/y_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(stripe)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__00000D,"y_timing_max:stky_p
> r_calvo'")
- if `j' == . & "`oname'" != "" {
= if 6 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 6 == . & "/y_timing_max:stky_pr_calvo" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''''=="_" & ``eq1''''!="" {
= if 6==. & `y_timing_max''''=="_" & `y_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 __00000E[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 __00000E[1,6] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,6] = __00000C[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 <= 10 {
- 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 "y_timing_max" == "/"

```

```

local spec "/`name'"
}
- else {
- local spec ``eq':`name''
= local spec "y_timing_max:ln_neq"
- if (usubstr(`eq'',1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/y_timing_max:ln_neq"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse ln_neq, 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,"y_timing_max:ln_neq
> ")
- if `j' == . & ``oname'' != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & ``sspec'' != "" {
= if 7 == . & "/y_timing_max:ln_neq" != "" {
    `vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 7==. & `y_timing_max''=="_" & `y_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 _00000E[1,7] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat _00000D[1,7] = _00000C[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 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat _00000F = _00000C[1,8..8]
- local eq : coleq `x'
= local eq : coleq _00000F
- local name : colname `x'
= local name : colname _00000F
- if "`eq'" == "/" {
= if "y_timing_max" == "/" {
local spec "/"`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "y_timing_max:open"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "y_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(stripe)`"'
        local ospec "`eq':`oname`"
    }
    - }
    - `vv' local j = colnumb(`new','`spec`')
    = version 18: local j = colnumb(__0000D,"y_timing_max:open"
> )
    - if `j' == . & "`oname'" != "" {
    = if 8 == . & "" != "" {
        `vv' local j = colnumb(`new','`ospec`')
    }
    - if `j' == . & "`sspec'" != "" {
    = if 8 == . & "/y_timing_max:open" != "" {
        `vv' local j = colnumb(`new','`sspec`')
    }
    - if `j'==. & ``eq``== "_" & ``eq1``!= "" {
    = if 8==. & `y_timing_max``== "_" & `y_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 __0000E[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 <= 10 {
- 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 "y_timing_max" == "/" {
  local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "y_timing_max:_cons"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/y_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(__0000D,"y_timing_max:_cons"
> ')
-
if `j' == . & ``oname'' != "" {
= if 9 == . & "" != "" {
`vv' local j = colnumb(`new','`ospec')
}
-
if `j' == . & ``sspec'' != "" {
= if 9 == . & "/y_timing_max:_cons" != "" {
`vv' local j = colnumb(`new','`sspec')
}
-
if `j'==. & ``eq'''=="_" & ``eq1'''!="" {
= if 9==. & ``y_timing_max'''=="_" & ``y_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 __0000E[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 __0000E[1,9] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,9] = __0000C[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 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,10..10]
- 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 10 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
-
- if `j' == . & "`sspec'" != "" {
= if 10 == . & "/y_timing_max:_cons" != "" {

```

```

`vv' local j = colnumb(`new','`sspec')
}
- if `j'==. & ``eq''''=="_" & ```eq1''''!="" {
= if 10==. & ``"/''=="_" & ``y_timing_max:"'!="" {
`vv' local j = colnumb(`new','`eq1``name')
if `j' == . & ``oname'' != "" {
`vv' local j = colnumb(`new','`eq1``oname')
}
}
- if `j'!=. {
= if 10!=. {
- if `fill'[1,`j'] {
= if __00000E[1,10] {
_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[1,10] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,10] = __00000C[1,10]
-
- 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 = 10 + 1
-
- while `i' <= `dim' {
= while 11 <= 10 {
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 __0000E = __0000E*__0000E'
- sret clear
- sret local k_fill = `fill'[1,1]
= sret local k_fill = __0000E[1,1]
- mat `mat' = `new'
= mat __0000C = __0000D


---


> _____ end _mkvec.ChkName
> s _____
- local fill `s(k_fill)'
= local fill 10
-
-
-
- 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 "10"!=""
    - sret local k_fill `fill'
    = sret local k_fill 10
    - }
    - 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(1,10,0)
    - matrix colna `bomit' = `colna'
    = matrix colna _00000C = y_timing_max:cb_authors_ext y_timing_ma
> x:estimated y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing
> _max:wlth y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y
> _timing_max:_cons /:lnalpha
    - _ms OMIT_info `bomit'
    = _ms OMIT_info _00000C
    - 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 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
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(CLuster) optlist(OIM OPG Robust)
> old : , vce(robust) robust


---


> _____ begin _on_colon_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'' != "" {
      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 "", 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) PSwallowed(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'.adopt `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.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 pwallowed : list uniq pwallowed
- 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 `", 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) ]
- if `""`vce""' != "" {
= if `""robust""' != "" {
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE __0000D __0000E , robust


---


> _____ 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  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 `""`0'.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 `":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 "__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 `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 -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 -414.2287919313009
- global ML_ll_0 : word 2 of `lf0'
= global ML_ll_0 : word 2 of 2 -414.2287919313009
- confirm integer number $ML_k0
= confirm integer number 2
- confirm number $ML_ll_0
= confirm number -414.2287919313009
- 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
- ParseUsemin, `deriv' len(`l')
= ParseUsemin, len(0)



---


> _____ begin mopt.ParseUsemi
> n _____
> 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 `""`min1"" != "" & `""`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 (`""`min1"" != "") {
= else if (`""` != "") {
    if (`len' > length(`""`min1'')) {
        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.ParseUsemi
> 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 TRace 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 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 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 __00006
- 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*(y_timing_max-__00000Y) if __0000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 000006
- }
- }
$ML_ec tempfile g1 g2
= * tempfile g1 g2
- $ML_ec mlecsu `lnf' `g1' = `sc1', eq(1)
= * mlecsu __00000 = __00000R, eq(1)
- $ML_ec mlecsu `lnf' `g2' = `sc2', eq(2)
= * mlecsu __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 __000000 __000011 = __0000Y*__0000Z*(__000010*__0
> 0000Z*(y_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*(y
> _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(y_timing_max+__0000W) - ln(__0000Z) - __0000W*(trigamma(y_timing_m
> ax+__0000W) - trigamma(__0000W)) + __0000Y*__0000Z*(__000010*__0000Z*(
> y_timing_max-__0000Y)- 1), eq(2)
-
- matrix `H' = (`d11',`d12' \ `d12'',`d22')
= matrix __0000Q = (__000011,__000012 \ __000012',__000013)

> _____ end nbreg_l
> f _____
Iteration 0: Log pseudolikelihood = -372.54415

> _____ 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 __0000U = __0000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __0000V = __0000N, eq(2) scalar

```

```

- local y "$ML_y1"
= local y "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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*(y_timing_max-__00000Y) if __000
> 006
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-'mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 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*(y_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*(y
> _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(y_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(y_timing_m
> ax+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z*(
> y_timing_max-__00000Y)- 1), eq(2)

```

```

    - }
    - matrix `H' = (`d11',`d12' \ `d12'',`d22')
    = matrix __00000Q = (__000011,__000012 \ __000012',__000013)


---


> _____ end nbreg_l
> f _____
Iteration 1: Log pseudolikelihood = -362.08158


---


> _____ 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 "y_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+y_timing_max) - lngamma(y_

```

```

> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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*(y_timing_max-__00000Y) if __000
> 006
    -
    - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 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 {
        mllmatsum `lnf' `d11' = `mu', eq(1)
        mllmatsum `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*(y_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*(y
> _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(y_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(y_timing_m
> ax+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z*(
> y_timing_max-__00000Y)- 1), eq(2)
- }
- matrix `H' = (`d11','`d12' \ `d21','`d22')
= matrix __00000Q = (__000011,__000012 \ __000012',__000013)

> _____ end nbreg_l
> f _____
Iteration 2: Log pseudolikelihood = -360.87234

> _____ 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 "y_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'))
      = mlsu _000000 = lngamma(_00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(_00000W) - _00000W*ln1p(exp(_00000U+_00000V)) -
> y_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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(_00000W) - _00000W*ln1p(exp(_00000U+_00000V)) -
> y_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 lalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "y_timing_max"
- scalar `m' = exp(-`lalpha')
= scalar __00000W = exp(-__00000V)
- if `lalpha' < -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'+`lalpha')) - `y'*ln1p(exp(-`xb'-`lalpha'))
= msum __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 __00006
- gen double `p' = 1/(1+exp(`xb'+`lalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000
> 06
- if `lalpha'<-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*(y_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 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*(y_timing_max-__0000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(y
> _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(y_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(y_timing_m
> ax+__00000W) - trigamma(__00000W)) + __00000Y*__00000Z*(__000010*__00000Z*(
> y_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 = -360.83675

```

```

> _____ 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 "y_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 {
        - msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = msum __000000 = lngamma(__0000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__0000W) - __0000W*ln1p(exp(__0000U+__0000V)) -
> y_timing_max*ln1p(exp(-__0000U-__0000V))
        - }
        - 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 = __0000N, eq(1)
        - mleval `lnalpha' = `b', eq(2) scalar
        = mleval __0000V = __0000N, eq(2) scalar
        - local y "$ML_y1"
        = local y "y_timing_max"
        - scalar `m' = exp(-`lnalpha')
        = scalar __0000W = exp(-__0000V)
        - if `lnalpha' < -20 {
        = if __0000V < -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 __000000 = lngamma(__0000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__0000W) - __0000W*ln1p(exp(__0000U+__0000V)) -
> y_timing_max*ln1p(exp(-__0000U-__0000V))
        - }
        - 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 __0000Y = exp(__0000U) if __00006

```

```

- 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*(y_timing_max-__00000Y) if __0000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 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*(y_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*(y

```

```

> _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(y_timing_max+__0000W) - ln(__0000Z) - __0000W*(trigamma(y_timing_m
> ax+__0000W) - trigamma(__0000W))) + __0000Y*__0000Z*(__000010*__0000Z*(
> y_timing_max-__0000Y)- 1), eq(2)
      - }
      - matrix `H' = (`d11','d12' \ `d12','`d22')
      = matrix __00000Q = (__000011,__000012 \ __000012',__000013)

> _____ end nbreg_l
> f _____
Iteration 4: Log pseudolikelihood = -360.83656
> _____ 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 "y_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+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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 "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __00000==. { exit }
    _____ end nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(`lnalpha')
    = scalar __00000W = exp(-__00000V)

```

```

- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsu $m$  `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsu $m$  `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsu $m$  __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_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*(y_timing_max-__00000Y) if __00
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 000006
-
}
-
$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 | __000000==. { 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 __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(y_timing_max-__0000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(y
> _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 = __00000W*(digamma(__00000W) - d
> igamma(y_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(y_timing_m
> ax+__00000W) - trigamma(__00000W)) + __00000Y*__00000Z*(__000010*__00000Z*
> y_timing_max-__0000Y)- 1), eq(2)
        -
- matrix `H' = (`d11','`d12' \ `d12'' ,`d22')
= matrix __00000Q = (__000011,__000012 \ __000012',__000013)

```

```

> _____ end nbreg_l
> f _____
Iteration 5: Log pseudolikelihood = -360.83656

```

```

> _____ 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 __00000W = __000006
    -
- ereturn post `b' `V' `C' `wgt', esample(`esamp') depname(`de
> pvar') buildfvinfo
    = ereturn post __00000U __00000V [], esample(__00000W) depnam

```

```

> e(y_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 = -414.2287919313009
    - 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 -----
  - gettok 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
  }
  }
  - gettok tok : 0, parse(" (,)") bind
  - local single single
  - local zero `"\000"
  = local zero `"( [#1]) , "
  - if `"\`tok'"' == "(" {
  = if `"\("` == "(" {
    - local single
    - while `"\`tok'"' == "(" {
    = while `"\("` == "(" {
      - gettok tok 0 : 0, parse(" (,)") match(paren) bind
      - local eqns `"\`eqns`"\`tok'"'"
      = local eqns `"\`[#1]"'"
      - gettok tok : 0, parse(" (,)") bind
      - }
      - while `"\`tok'"' == "(" {
      = while `"\`,"' == "(" {
        gettok tok 0 : 0, parse(" (,)") match(paren) bind
        local eqns `"\`eqns`"\`tok'"'"
        gettok 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
    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 __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'
> 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}"
    _mttest 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_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 __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 _____
    - }


---


> _____ end mopt.Mode
> l _____
    - if c(rc) {
        local rc = c(rc)
        Clear
        exit `rc'
    }
    - exit


---


> _____ end mop
> t _____
    - exit


---


> _____ 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


---


> _____ begin _b_pclas
> s _____
    - version 15
    - args c_value COLON key
    - _onColonParse `0'
    = _onColonParse PCDEF : default


---


> _____ 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_pclass(``:list retok key``)
= mata: st_b_pclass("default")
- c_local `c_value' `value'
= c_local PCDEF 0


---


> _____ end _b_pclas
> s _____
- _b_pclass PCAUX : aux


---


> _____ begin _b_pclas
> 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 _____
- tempfile pclass
- matrix `pclass' = e(b)
= matrix __000006 = e(b)
- local dim = colsof(`pclass')
= local dim = colsof(__000006)
- matrix `pclass'[1,1] = J(1,`dim','PCDEF')
= matrix __000006[1,1] = J(1,10,0)
- matrix `pclass'[1,`dim'] = `PCAUX'
= matrix __000006[1,10] = 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 dispers "`dispers'"
= est local dispers "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 -414.2287919313009
- 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 .1288955078812051
- 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 y_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 FWWRAP(passthru) FWWRAP0
> 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 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' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvwrapon' `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
> 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 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' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvrapon' `fvlabel' `nocl' `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 FWRAP(passthru) FWRAP0
> 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 FWRAP(pass
> thru) FWRAPON(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 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' `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 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 = `""10""  
- }  
- sreturn local `sname' = `""`S_`sname"""  
= sreturn local k = `""10""  
- }
```

```

> _____ 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,`lcnd')) {
    = 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.Display
> 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 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 FWWRAP
> 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 ++
        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 `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 fvwrapon `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' `cotype' `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 NO0MITted 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 NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVRA
> 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

```

```

        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
        gettokent 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 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, `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' `fwrapon' `fvlable' `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 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) 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 ``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 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' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlable' `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 = `"10"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k_fill = `"10"""
- }
- 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' = `""`S_`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 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 IRRR 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 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
    - }
    - 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_tii = "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_t2 = "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_t2 = "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_t2 = "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_t2 `eform_cons_t2'

```

```

= sreturn 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(strin
> 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 `"`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 _____
    - 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) {
        tempname obj
    }
    - if ("`rclass'" != "") {
    = if ("" != "") {
        tempname 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_nouncensored = 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 xfrontier xti
> ntreg xtnbreg
    - local list `list' xtpoisson xttobit xtmlogit xtrc
    = local list xtreg xtprobit xtlogit xtcloglog xfrontier 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
> o _____
- version 16
- class exit ```.result(`0')'''
= class exit "Negative binomial regression"

---


> _____ end _coef_table_header.Macr
> o _____
= .title = "Negative binomial regression"
- .title2 = ```.Macro title2'''

---


> _____ begin _coef_table_header.Macr
> o _____
- version 16
- class exit ```.result(`0')'''
= class exit ``'''

---


> _____ end _coef_table_header.Macr
> o _____
= .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 `"221"


---


> _____ end _coef_table_header.Scala
> r _____
= if (!missing(221) & 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 `"221"


---


> _____ end _coef_table_header.Scala
> r _____
= .PushRight "Number of obs" " = " "as res" %10.0fc 221


---


> _____ 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 12 {
- local direst = ustrltrim(`: di `rest'`)
= local direst = ustrltrim(" 221")
- .ralignr = max(`.ralignr', udstrlen(`direst'))
= .ralignr = max(0, udstrlen("221"))
- 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':221}"
- }
- else if `:length local tok' {
= else if 13 {
    .right.Arrpush `\`C3' `"\`tok"'
}
- else {
    .right.Arrpush
}



---


> _____ end _coef_table_header.PushRight
> 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
            }
        }
    }
}

```



```

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
> 0 _____
    - version 16
    - class exit ```.result`(`0')'''
= class exit `"1"'

> _____ end _coef_table_header.Macr
> 0 _____
    = if `"1"' == "0" {
        exit
    }
    - if missing(`.Scalar df_m') {

> _____ begin _coef_table_header.Scala
> r _____
    - version 16
    - class exit ```.result`(`0')'''
= class exit `"8"'

> _____ end _coef_table_header.Scala
> r _____
    = if missing(8) {
        exit
    }
    - if ```.Macro chi2''' != "" | ```.Macro df_r''' == "" {

> _____ begin _coef_table_header.Macr
> 0 _____
    - version 16
    - class exit ```.result`(`0')'''
= class exit `252.0138019548383'''

> _____ end _coef_table_header.Macr
> 0 _____
    _____
> _____ begin _coef_table_header.Macr
> 0 _____
    - version 16

```

```

> _____ end _coef_table_header.Macr
> o _____
= if `"252.0138019548383"` != "" | `""` == "" {
- .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("8")
- if !missing(e(chi2)) {
- .PushRight "`type' chi2({res: `didf'})" " = " "as res"
> %`c4wfmt'.2f e(chi2)
= .PushRight "Wald chi2({res:8})" " = " "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(" 252.01")
- .ralignr = max(`.ralignr', udstrlen(`direst'))
= .ralignr = max(3, udstrlen("252.01"))
- local len : di `tok'
= local len : di `Wald chi2({res:8})'
- 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:8})}"` \`C4' " = " as res "\{ralign \`.ralignr:252.01}"

```

```

- }
- 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 : smclength 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.PushRigh
> 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
  - 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("    0.1289")
- .ralignr = max(`.ralignr', udstrlen(`direst'))
= .ralignr = max(6, udstrlen("0.1289"))
- local len : di ``tok''
= local len : di "Pseudo R2"
- local len : smclength local len
- .lalignr = max(`.lalignr', `len')
= .lalignr = max(13, 9)
- .right.Arppush \`.C3' `"{lalign \`.lalignr':`tok'}'' \
> `.C4' ``eq''' `dias' `"{ralign \`.ralignr':`direst'}"
= .right.Arppush \`.C3' `"{lalign \`.lalignr':Pseudo R2}'''
> `.C4' " = " as res `"{ralign \`.ralignr':0.1289}"
- }
- else if `:length local tok' {
= else if 9 {
    .right.Arppush \`.C3' ```tok''
}
- else {
    .right.Arppush
}



---


> _____ end _coef_table_header.PushRigh
> 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.Build4titl
> 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 : smclength local title
- local len2 : smclength 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.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 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(`"-360.8365614162979"') & !miss
> ing(`"log pseudolikelihood"')
    - if inlist(``e(dispers)`", "mean", "constant") {
    = if inlist("mean", "mean", "constant") {
    - if `hascrit' {
    = if 1 {
    - local ++offset
    - local crtype ```e(critttype)`"'
    = local crtype `"log pseudolikelihood"`
    - local clen : length local crtype
    - .c2 = `clen' + 2
    = .c2 = 20 + 2
    - }
    - local didisp = strtrim(``di e(dispers)`")
    = local didisp = strtrim("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
      - gettoken tok rest : 0
      - gettoken eq rest : rest
      - gettoken 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("-360.83656")
      - local len : smcllength local direst
      - .ralignla = max(`.ralignla', `len')
      = .ralignla = max(0, 10)
      - local len : di ``tok''
      = local len : di `"Log pseudolikelihood"'
      - local len : smcllength local len
      - .lalignla = max(`.lalignla', `len')
      = .lalignla = max(0, 20)
      - .left.Arrpush \`.C1` "{lalign \`.lalignla':`tok'}" \
> `.C2a` ``eq'" `dias` "{ralign \`.ralignla':`direst'}"
      = .left.Arrpush \`.C1` "{lalign \`.lalignla':Log pseudoli
> kelihood}"` `.C2a` " = " as res "{ralign \`.ralignla':-360.83656}"
      - }
      - 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 6:221}"
Negative binomial regression                               Number of obs = 221
    - }
    - 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:8})}"' _col(70) " = " as res "{ralign 6:252.01}"
                                            Wald chi2(8) = 252.01
    - }
    - 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 pseudolike
> lihood}'' _col(21) " = " as res "{ralign 10:-360.83656}" as txt _col(57) `'{
> lalign 13:Pseudo R2}'' _col(70) " = " as res "{ralign 6:0.1289}"
Log pseudolikelihood = -360.83656 Pseudo R2 = 0.1289
- }

> _____ 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) 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) 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
> ODIPARM NOTEST SEParator(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`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 ("`nocl'"'!="" & "`norowci'"'!="") {
= if (""!= "" & ""!= "") {
    di as err "{bf:norowci} is not allowed with {bf:`nocl'}"
    exit 198
}
- if "`standardized'"' != "" & "`bstdmatrix'"' != "" {
= if "" != "" & "" != "" {
    local beta beta
    local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
- local type `beta' `nocl' `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 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 `""'
    - 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 SCHeff

```

```

> 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 ++
        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' `fvwrap' `fvlabel'
= _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 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 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 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 `"$sformat(`$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 `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
> 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 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 ``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 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 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 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 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
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO 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 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` `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 `""` == "" {
- 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 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 FVW
> 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 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 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' `fvwrapon' `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 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__) 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

```



```

= 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_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 `"`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 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 `""lnalpha, exp label("alpha")"""
- }
- while `:length local diparm' {
= while 27 {
- gettoken diparm rest : diparm, `GTOPTS'
= gettoken diparm rest : diparm, parse(":") bind quotes
- while `:length local rest' {
= while 0 {
  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 diparm1 : copy local diparm
- local ++i
- local diparm `""`e(diparm`i')"""
= local diparm `"""
- }
- while `:length local diparm' {
= while 0 {
  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 ++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 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 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
> SElaves 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 ``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 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 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 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 ``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 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 "" != "" {
  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 "" == "" {
- 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 ``f xlabel' `nof 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

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

> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - 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 $format `"$format"
        local $format `"$format(`format')"
    }
- if `:length local $format' {
= if 0 {
    confirm numeric format '$format'
    if fmtwidth(`"$format") > 5 {
        local $format "%5.3f"
        di "{txt}note: invalid $format(), using default"
    }
    sreturn local $format `"$format"
    local $format `"$format(`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')
}
- $rapon , `fvrapon'
= $rapon ,

```

```

> _____ begin _get_diopts.$rapo
> 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' `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 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'
= .00008 = .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] [, MCOMPPare(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 `"\noadjust"'
        - sreturn local adjustall `"\`ALL''''

```

```

        = sreturn local adjustall `""'


---


> _____ end _get_mcompar
> e _____
> ak") {
    - if !inlist("`$method'", "noinf", "bonferroni", "sidak")
> ) {
    di as err "option `mcompare' not allowed"
    exit 198
}
- .METHOD = "`$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 = "y_timing_max:cb_authors_ext y_timing_max:estim
> ated y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wl
> th y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_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
    }
    - if `df_r' <= 0 {
        - if 0 {
            .DF = `df_r'
        }
        - }
        - else {
            .DF = `dof'
        }
    }
    - if `df_r' <= 0 {
        - if 0 {
            .DF = `df_r'
        }
        - }
        - else {
            .DF = `dof'
        }
    }
    - if `df_r' <= 0 {
        - if 0 {
            .DF = `df_r'
        }
        - }
        - else {
            .DF = `dof'
        }
    }
}

```

```

> _____ 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' <= 0 {
        - 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(`10', "", ".") {
  di as err "parameter named {bf:`EQ'} not found"
  exit 322
}
- local egs `eqs' `eq'
= local egs /lnalpha
-
- local neq : list sizeof egs
- if `has_Cns' {
= if 0 {
  tempfile 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
- }
- tempfile 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 {
- tempfile 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 _____


---


> _____


|                                                                           |  | Robust      |           |   |      |                 |  |
|---------------------------------------------------------------------------|--|-------------|-----------|---|------|-----------------|--|
|                                                                           |  | Coefficient | std. err. | z | P> z | [95% conf. inte |  |
| > rval]                                                                   |  |             |           |   |      |                 |  |
| > _____                                                                   |  |             |           |   |      |                 |  |
| > cb_authors_ext   .3359876 .0889968 3.78 0.000 .1615572 .51              |  |             |           |   |      |                 |  |
| > 04181 estimated   .3925615 .091225 4.30 0.000 .2137637 .57              |  |             |           |   |      |                 |  |
| > 13592 wg_ndx_mult   .614663 .2465807 2.49 0.013 .1313738 1.0            |  |             |           |   |      |                 |  |
| > 97952 stky_pr_rotemberg   -1.252631 .1472768 -8.51 0.000 -1.541288 -.96 |  |             |           |   |      |                 |  |
| > 39736 wlth   -.3508718 .109559 -3.20 0.001 -.5656035 -.13               |  |             |           |   |      |                 |  |
| > 61401 stky_pr_calvo   -.7503445 .1466333 -5.12 0.000 -1.03774 -.46      |  |             |           |   |      |                 |  |
| > 29486 ln_neq   .2013941 .0655946 3.07 0.002 .0728311 .32                |  |             |           |   |      |                 |  |
| > 99572 open   -.4139468 .1435197 -2.88 0.004 -.6952402 -.13              |  |             |           |   |      |                 |  |
| > 26534                                                                   |  |             |           |   |      |                 |  |


```

	_cons	.4444038	.1912598	2.32	0.020	.0695416	.8
> 19266							
> _____							
	/lnalpha	-2.723656	.8525592			-4.394642	-1.0
> 52671							
> _____							
	alpha	.0656343	.0559572			.0123433	.34
> 90043							
> _____							
	- 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 y_timing_max cb_authors_ext
> estimated wg_ndx_mult stky_pr_rotemberg wlth stky_pr_calvo ln_neq open if
> y_timing_max<60 , vce(r)"'



---


> _____ end nbre
> g _____
    - log close
    name: <unnamed>
    log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/y_timing_max_all_det.smcl
    log type: smcl
    closed on: 9 May 2025, 13:21:30

```
