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```
name: <unnamed>
log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/y_timing_max_all_sim.smcl
log type: smcl
opened on: 9 May 2025, 13:21:28
- capture ! rm ./output/stepwise_regressions/`depvar'_`type'.pdf
= capture ! rm ./output/stepwise_regressions/y_timing_max_all_sim.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_sim"
Independent Variable set: all_sim
- di "*****"  
> ****
*****  
> **
- ${reg_`depvar'_`type'}
= nbreg y_timing_max cb_authors_ext estimated stky_pr_rotemberg wlth stky_
> pr_calvo ln_neq open wg_ndx 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_n
> dx 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
```

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> cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open w
> g_ndx 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 stky
> _pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx if y_timing_max<60 , v
> ce(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 stky
> _pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx if y_timing_max<60 , v
> ce(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 stky_
> pr_rotemberg wlth stky_pr_calvo ln_neq  open wg_ndx  if y_timing_max<60 , vc
> e(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 stky_pr_rotemberg w
> lth stky_pr_calvo ln_neq  open wg_ndx  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 stky_pr_rotembe
> rg wlth stky_pr_calvo ln_neq  open wg_ndx  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
> OBOOTstrap 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 `""` != "" {
    tempname reqopts
    `reqopts' = ._optlist.new
    foreach req of local requiredopts {
        `reqopts'.addopt `req', passthru

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        }
    }
- 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 stky_pr_rotemberg w
> lth stky_pr_calvo ln_neq open wg_ndx 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

```

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}
- 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

```

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> _____ begin _vce_parserun.unabVCETyp
> e _____
- syntax [, B00Tstrap Bstrap JACKknife JACKNife JKknife Robust * ]
- if `"\`bootstrap`" != "" {
= 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`"

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= 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 ``lrmmodel''!= "" {
= if ""!= "" {
  _check_lrmmodel `caller', vcetype(`vcetype')
}
- if ```vce1''' != "" & ``multivce'' != "" {
= if ""!= "" & ""!= "" {
  gettoken uvce1type vce1opts : 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 vce1opts: vceopts, parse(",")
  if `:list sizeof vceopts' > 1 {
    local typelist ``typelist' cluster_multiway'
    local vcetype cluster_multiway
    if `:list sizeof vce1opts' > 0 {
      gettoken comma vce1opts: vce1opts, parse(",")
      local vce1opts: list retokenize vce1opts
      di as err "{p}VCE option " "{bf:`vce1opts'} 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 stky_pr_ro
> temberg wlth stky_pr_calvo ln_neq open wg_ndx if y_timing_max<60 , vce(r)

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```

> _____ 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
> ispersian(string) CRITTYPE(passthru) VCE(passthru) moptobj(passthru) * ]
        - local fvops = "`s(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
        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 `""` != "" {

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```

    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' `lststretch' `coeflegend
> `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwr
> ap' `fvrapon' `fvlabel' `nocl' `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 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 [, 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` `baselevel
> s` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `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 "`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 ++
    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 [, 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 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' `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' = `""`S_`sname""'

```

```

= sreturn local level = `"95"
- }

> _____ end _get_diopt
> s _____
- mlopts mlopts, `options' `log' `nolog'
= mlopts mlopts,
_____ begin mlopt
> s _____
- version 8.0
- local maxoptlist ML0PTs(string) TRace TRACEDiffs GRADient HESSian SH
> OWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance(re
> 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) [, ML0PTs(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 [, ML0PTs(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'"!="`" {
= 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 `cluster'"!=`" {
    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 """
- gettokn 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) "" != "" {
- gettokn COLON after : after, parse(":") bind match(par) quotes
- if `par' != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if `"`COLON'"' != ":" {
= else if `":'" != ":" {
    local before `before' `COLON'"
    local COLON
}
- }
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `":'" != ":" & `":` [], vce(r) "" != "" {
    gettokn COLON after : after, parse(":") bind match(par) quotes
    if `par' != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if `"`COLON'"' != ":" {
        local before `before' `COLON'"
        local COLON
    }
- if `"`COLON'"' != ":" {
= if `":'" != ":" {
    di as err `found where `':` expected'
    exit 198
```

```

        }
- sreturn local before `"\`before"`
= sreturn local before `", 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
= __00002 = ._optlist.new
- local argoptlist : list uniq argoptlist

```

```

- foreach name of local argoptlist {
- .`a'.addopt `name'
= __00002.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 $im $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 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 `"`Robust oim opg 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 robust
- }
- local namelist `namelist' `.`names[`i']'
= local namelist robust oim
- }
- local namelist `namelist' `.`names[`i']'
= local namelist robust 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
}
- tempfile 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 stky_pr_rotemberg w
> lth stky_pr_calvo ln_neq open wg_ndx [] if __000000,
- local xvars `r(varlist)'
= local xvars cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_ca
> lvo ln_neq open wg_ndx
- _parse_iterlog, `log' `nolog'
= _parse_iterlog,


---


> _____ begin _parse_iterlo
> g _____
- version 16
- syntax [, NOLOG LOG]
- if "`log``nolog'" != "" {

```

```

= if "" != "" {
    opts_exclusive ``log' `nolog''
}
- else if ``c(iterlog)'' == "on" {
= else if "on" == "on" {
- local log log
- }
- else {
    local nolog nolog
}
- sreturn local log `log'
= sreturn local log log
- sreturn local nolog `nolog'
= sreturn local nolog



---


> _____ end _parse_iterlo
> g _____
- local log ``s(nolog)'
= local log ""
- if ``log''!="" | ``display''!=" { local nohead "*"
}
= if ""!="" | ""!="" { local nohead "*"
}
- if ``from''=="" & ``lrtest''=="" {
= if ""=="" & ""=="" {
- 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 stk
> y_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [] if __000000, nodispl
> ay 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open w
> g_ndx [] 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq ope
> n wg_ndx [] 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 st
> ky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [] if __000000, nodisp
> lay 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 st
> ky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [] if __000000, nodisp
> lay 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 stk
> y_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [] if __000000, nodispl
> ay      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 stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open wg_ndx [] if __000000, nodisplay      robust"
    - quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(
> string asis) VCE1(string asis) LRMODEL * ]
    - if `""`vce""' == "" {
    = if `""' == "" {
    - MYRESULT

```

---

```

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

```

---

```

> _____ end _vce_parserun.MYRESUL
> T _____
    - exit

```

---

```

> _____ end _vce_parseru

```

```

> n -----
  - if "`s(exit)'" != "" {
  = if "" != "" {
    version 10: ereturn local cmdline `poisson `0''
    exit
  }
  - version 6, missing
  - local version : di "version " string(_caller()) ":""
  - if replay() {
    if "`e(cmd)'" != "poisson" {
      error 301
    }
    if _by() { error(190) }
    Display `0'
    error `e(rc)'
    exit
  }
  - `version' `BY' Estimate `0'
  = version 18: Estimate y_timing_max cb_authors_ext estimated stky_pr_
> rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [] if __000000, nodisplay
> 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 FWWRAP(passthru) FWRA
> 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 FWWRAP(pa
> sssthru) FWWRAPON(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

```

```

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

---

```

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

```

---

```

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

---

```

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

```

---

```

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

```

```
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
```

```

- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


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


---


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


---


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


---


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


---


> _____ begin opts_exclusiv

```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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

```

```

- sreturn clear
- GetDiopts DEFAULT


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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

```

```

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

```

```
- opts_exclusive ``coding' `compare''  
= opts_exclusive " "  


---



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


---



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


---



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


---



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


---



> _____ begin opts_exclusiv


```

```

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

```

---

```

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

```

```

- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ````cformat''''
    local cformat `"cformat(`cformat')"''
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ````sformat''''
    local sformat `"sformat(`sformat')"''
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ````pformat''''
    local pformat `"pformat(`pformat')"''
}
-
- if `K' == 1 & `:length local options' {
= if 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' `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
    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
    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
        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 [, 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' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvrapon' `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) DIFFicult HALFSTEPonly CO

```

```

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

```

```

ml_technique, `technique' `vce' nodefault
if "`$technique'" != "" {
    local technique "technique(`$technique')"
}
if "`$vce'" != "" {
    local vce "`$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 `$(collinear)'
= local coll
- local cns `$(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'"!="`varlist' {
= if ""!="" {
    local nvar : word count `varlist'
    if `nvar' == 1 {
        di in red "independent variables required with " "noconstant option"
> 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"!="" & ""=="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 stky_pr_rotember
> rg wlth stky_pr_calvo ln_neq open wg_ndx [] if __000002,
    - local xvars `r(varlist)'
        = local xvars cb_authors_ext estimated stky_pr_rotember wlth stky_p
> r_calvo ln_neq open wg_ndx
    - 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 s
> tky_pr_rotember wlth stky_pr_calvo ln_neq open wg_ndx [] if __000002, n(__0
> 00004) mean(__000003)


---


> _____ begin poisson.Ipoi
> s _____
    - local vv : display "version " string(_caller()) ", missing:"
    - version 6, missing
    - syntax varlist(fv ts) [fw aw pw iw/] [if] , Nobs(string) Mean(st
> ring) [ noCONSTant OFFset(string) ]
    - gettoken y xvars : varlist
    - tempvar xb z
    - tempname b1 b2 lnf1
    - if "`weight'"!=""
    = 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 stky_pr_rotember wlth stky_pr_calvo ln_neq open wg_ndx 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 DUNNett SCHeffe SID
> ak SNK TUKey ADJustall
  - if `is_pwc' {
= if 0 {
    syntax [name] [, `OPTIONS' MCOMPARE(string) *]
  }
  - else {
  - syntax [name] [, MCOMPARE(string) *]
  - local suboption mcompare()
  - }
  - sreturn clear
  - sreturn local options `"`options`"
= sreturn local options `level(95.00) fvwrap(1)"
  - if `is_pwc' {
= if 0 {
    local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `sch
> effe' `sidak' `snk' `tukey'

```

```

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


---


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


---


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

```

```

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

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

> _____ end opts_exclusiv
> e _____
    - local EXCLUDE duncan dunnett snk tukey
    - if `:list METHOD in EXCLUDE' {
    = if 0 {
        if `is_pwc' {
            local opt : copy local METHOD
        }
        else {
            local opt "mcompare(`METHOD')"
        }
        local cmdlist anova manova regress mvreg pwmean
        if ```cmd'" == "pwcompare" {

```

```

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



---


> _____ end _get_mcompar
> e _____
- if "`s(method)" != "" {
= if "noadjust" != "" {
- loca mcopt mcompare(`s(method)' `s(adjustall)')
= loca mcopt mcompare(noadjust )
- }
- _get_diopts diopts, `s(options)'
= _get_diopts diopts, level(95.00) 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) fwwrap(1)
_____
> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> 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 ``nci' `nopvalues''
= opts_exclusive " "


---


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

```

```
- exit


---


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


---


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


---


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


---


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

---

```

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

```

```

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

```

```

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


---


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


---


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


---


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

```

```

        c_local fvrapon fvrapon(`fvrapon')
    }

> _____ end _get_diopts.Wrapo
> n _____
    - if ``fvwrap'' != "" {
    = if "fvwrap(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 FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


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

```

```
= if 0 < 2 {
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
```

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

        gettokn 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
    gettokn 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 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 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
> 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
> FWRAPON(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 ++
        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 WIth]
    - if c(rc) {
        di as err "invalid fvrapon() option;"
        syntax [, WOrd WIth]
        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' `fvrap' `fvrapon' `fvlable' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

```

```

= c_local DUP$S
- 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 DUP$S options, `options'
        c_local `name2' `""`options"""
        }
    - local DUP$S : list DUP$S - DEFAULT
    - gettoken DUP$S : DUP$S
    - if `""`DUP$S""' != ""' {
        = if `""' != ""' {
            if (strpos(`""`DUP$S""', "(")) {
                gettoken DUP$S : DUP$S, parse("(")
                local DUP$S `""`DUP$S'()"'
            }
            di as err "duplicate {bf:`DUP$S'} option not allowed"
            exit 198
        }
    - sreturn clear
    - foreach sname of local snames {
        - sreturn local `sname' = `""`S_`sname'"""
        = sreturn local level = `"""95"""
        -
        - sreturn local `sname' = `""`S_`sname'"""
        = sreturn local method = `""noadjust"""
        -
        - sreturn local `sname' = `""`S_`sname'"""
        = sreturn local options = `""level(95.00) fvwrap(1)"""
        -
    }


---


> _____ end _get_diopt
> s _____

```

```

- if !`:length local first' {
= if !0 {
- local first showeqns
- }
- if `neq' < 1 {
= if -1 < 1 {
- _ms_eq_info
- local neqopt neq(`r(k_eq)')
= local neqopt neq(1)
- }
- else {
    local neqopt neq(`neq')
    }
- _coef_table, nodiparm nocnsreport noeqlcheck eformall `eform' `'
> first' `neqopt' `plus' `beta' `mcopt' `diopts'
        = _coef_table, nodiparm nocnsreport noeqlcheck eformall showeqns
> neq(1) mcompare(noadjust ) fwwrap(1)


---


> _____ begin _coef_table
> e _____
- version 11
- local vv : di "version " string(max(11,_caller())) ", missin
> g:""
- if (!c(noisily) & c(coeftabresults) == "off") {
    exit
}
- _check_eiclass
- syntax [, BMATrix(passthru) VMATrix(passthru) * ]
- if "`e(b)'"" == "" & "`e(V)'"" == "" & "`bmatrix`vmatrix'"==""
> " {
= if "matrix" == "" & "matrix" == "" & ""="" {
    exit
}
- local mc_cmds contrast margins pwcompare pwmean
- local cmd "`e(cmd)'"
= local cmd "regress"
- local keepmc : list cmd in mc_cmds
- if inlist("`cmd'", "pwcompare", "pwmean") {
= if inlist("regress", "pwcompare", "pwmean") {
    local groups GROUPS
}
- if "`cmd'" == "regress" {
= if "regress" == "regress" {
- local beta Beta
}
- if "`cmd'" == "gsem" {

```

```

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

```

```

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

```

---

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

```

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

```

---

```
> _____ end opts_exclusiv
> e _____
```

```

- opts_exclusive ``first' `nofirst''
= opts_exclusive " "


---


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


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``first' `showeqns''
    = opts_exclusive " showeqns"


---


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

```

---

```

> _____ end opts_exclusiv
> e _____
    - local cnsreport `cnsreport` `fullcnsreport'
    = local cnsreport nocnsreport
    - opts_exclusive ``cnsreport''
    = opts_exclusive "nocnsreport"
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts nocnsreport
    - local n 0
    - while ```opts''' != "" {
    = while ``nocnsreport'' != "" {
        - local ++n
        - gettoken item`n' opts : opts, bind
        = gettoken item1 opts : opts, bind
        - }
        - while ```opts''' != "" {
        = while `''' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
            }
            - if `n' < 2 {
            = if 1 < 2 {
                - exit
_____
> _____ end opts_exclusiv
> e _____
    - if ``showeqns'' != "" {
    = if ``showeqns'' != "" {
        - local nofirst nofirst
        - }
        - if ```ematrix``noeqcheck'' == "" {
        = if ``noeqcheck'' == "" {
            if ```e(error)'' == "matrix" {
                local ematrix e(error)
            }
        }
        - _get_mcompare, `options'
        = _get_mcompare, mcompare(noadjust ) fvwrap(1)
_____
> _____ begin _get_mcompar
> e _____

```

```

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

```

```

- local METHOD : list uniq METHOD
- local ALL `ALL` `adjustall'
= local ALL
- local ALL : list uniq ALL
- opts_exclusive ``METHOD`` `suboption'
= opts_exclusive "noadjust" mcompare()

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts noadjust
    - local n 0
    - while ``opts`` != "" {
    = while ``noadjust`` != "" {
        - local ++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
> METHOD```
    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' `fwwrap' `fvlable'
= _get_diopts diopts options, fwwrap(1)


---


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


---


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


---


> _____ begin opts_exclusiv
> e _____

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
```

```

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


---


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


---


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


---


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


---


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

```

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

```

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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____

```

```

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

```

---

```

> _____ begin opts_exclusiv
> e _____

```

```

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

```

```

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


---


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


---


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


---


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


---


> _____ end _get_diopts.FVWra
> p _____
- }
- c_local `c_diopts' `leavelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
= c_local diopts           fwrap(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 ``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 ``nocl' `nopvalues''
= opts_exclusive " "


---


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


---


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


---


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

```

```
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end _get_diopts.Wrapo
> n -----
    - if `fvrap' != "" {
    = if "" != "" {
        FVWrap, `fvrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> `are' `fvrap' `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
> 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

```

```

        gettokn 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
        gettokn 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 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' `noci' `nopvalues' `markdown' `citype' `a
> `bbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 2 == 2 {
    - c_local `c_opts' `""`options"""
    = c_local options `"""
    - }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95

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

```

```

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



---


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



---


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



---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE 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 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 fwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fwrapon
= opts_exclusive " " fwrapon


---


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


---


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


---


> _____ end _get_diopts.Wrapo
> n _____
- if ```fwrap''' != "" {
= if "fwrap(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')}; "
> "nonnegative integer required{p_end}"
    exit 198
}



---


> _____ end _get_diopts.FWra
> p _____
- }
- c_local `c_diopts` `levelopt` `vsquish` `allbaselevels'
> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fwrap` `fwrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
= c_local diopts                      fwrap(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 `""`fwrap(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 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 sformat ```sformat'''
    local sformat `"$sformat(`sformat')"'"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(````pformat'''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `"$pformat(`pformat')"'"
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____

```

```

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

```

---

```

> _____ begin opts_exclusiv
> e _____

```

```

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

```

```

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

---

```

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

---

```

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

---

```

> _____ end _get_diopts.GetDiopt

```

```

> s -----
    - }
    - else {
        GetDiopts DUPs options, `options'
        c_local `name2' `""`options"""
    }
    - local DUPs : list DUPs - DEFAULT
    - gettoken DUPs : DUPs
    - if `""`DUPs""' != "" {
    = if `""' != "" {
        if (strpos(`""`DUPs""', "(")) {
            gettoken DUPs : DUPs, parse("(")
            local DUPs `""`DUPs'()"'
        }
        di as err "duplicate {bf:`DUPs'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local level = `"95"'
    - }
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local 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_) soptions
> ons
    = _get_eformopts , eformopts() allowed(_all_) soptions

----- begin _get_eformopt
> s -----
    - version 8.0
    - syntax [, eformopts(string asis) soptions ALLOWed(string)
> ]

```

```

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

```

```

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

```

```

- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr tratio
-
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- local eform `eform' ``ef''
= local eform
-
- 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'''', ```'
= 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 `""`$before`"""
local after `""`$after`"""
}
capture
SpliceGlobals diparm , diparm(`diparm') `syntaxonly` `gopt
> ions'
local diparm`k' `""`diparm"""
local diparmopts `""`diparmopts' : `diparm"""
if `single' | `":list retok after`"" == "" {
local 0 `", `options"""
syntax [, diparm(string asis) * ]
}
else {
local diparm `""`after`"""
}
}
- if `""`options`"" == "" {
= if `""` == "" {
- 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' {
        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 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 ``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 `""`$format"""
        local $format `"$format(`$format')"""
    }
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`""`pformat""') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `""`pformat"""
    local pformat `"$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 ``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 "`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 DEFAULT
    - if `K` == 2 {
= if 1 == 2 {
        c_local `c_opts` `""`options`"""
}
    - sreturn local coding `coding'
= sreturn local coding
    - sreturn local versus `versus'
= sreturn local versus
    - sreturn local compare `compare'
= sreturn local compare
    - sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `name2` == "" {

```

```

= if `""` == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted 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 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' `nci' `nopvalues' `markdown' `citype' `a
> `bbrev'
= c_local DUPs
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


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

```

```

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



---


> _____ end _get_diopt
> s _____
- if "`markdown'" != "" {
= if "" != "" {
    set linesize `lsize'
}
- if "`eqselect'" == "" & "`eformnote'" != "noeformnote" {
= if "" == "" & "" != "noeformnote" {
- if `"`eformdi'"'!="" & ("`e(cmd)'"!="gnbreg" | "`e(prefix)'""
> == "svy") {
    = if `""'!="" & ("regress"!="gnbreg" | ""=="svy") {
        local k_eform `r(k_eform)'
        if (`k_eform'"==") {
            local k_eform = 1
        }
        local k_eq `e(k_eq)'
        if (`k_eq'"==") {
            local k_eq = 1
        }
        if (`k_eform'<`k_eq' & `k_eform') {
            if ("`e(cmd2)'" == "stintreg" | "`e(cmd2)'" == "streg") & (
> `e(cmd)'" == "weibull" | "`e(cmd)'" == "gompertz") {
                }
            else {
                _eform_multeq_note efnote : `k_eform' `"`tr_item'"
                di as txt "`efnote'"
            }
        }
    }
- if (`"`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(__000003)-ln(r(mean))


---


> _____ end poisson.Solve

```

```

> C -----
  - tempfile c
  - scalar `c' = r(_cons)
  = scalar __00000B = r(_cons)
  - if `c'<. {
  = if __00000B<. {
  - local c "+`c'"
  = local c "+__00000B"
  - }
  - else local c
  - LikePois `y' `xb' `poff' `c' [`weight' `exp'] `if', n(`nobs')
  = LikePois y_timing_max __000006+__00000B [] if __000002, n(__0000
> 04)

> -----
> 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 __00000C = y_timing_max*(__000006+__00000B)-exp
> (__000006+__00000B)-lngamma(y_timing_max+1) if __000002
  - summarize `lnf' `wt' `if', meanonly
  = summarize __00000C if __000002, meanonly
  - if r(N) != `nobs' { exit }
  = if r(N) != __000004 { exit }
  - if "`weight'"=="aweight" {
  = if ""=="aweight" {
    ret scalar lnf = r(N)*r(mean)
    }
  - else ret scalar lnf = r(sum)
  -----
> end poisson.LikePoi
> s

```

```

- tempname lnf1c
- scalar `lnf1c' = r(lnf)
= scalar __00000C = r(lnf)
- }
- else local lnf1c .
- capture {
- gen double `z' = `y'*exp(-(`xb'`poff`c'))-1 +`xb'`c' `if'
= gen double __000007 = 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
> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [aw=exp(__000006+_
> 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 DUNNett SCheffe
> SIDak SNK TUKey ADJustall]
    - if c(rc) {
        di as err "invalid mcompare() option;"
        di as err "method ``mcompare'' not allowed"
        error 198
    }
    - local METHOD `METHOD' `noadjust' `bonferroni' `duncan' `dunn
> ett' `scheffe' `sidak' `snk' `tukey'
    = local METHOD
    - local METHOD : list uniq METHOD
    - local ALL `ALL' `adjustall'
    = local ALL
    - local ALL : list uniq ALL
    - opts_exclusive "`METHOD'" `suboption'
    = opts_exclusive "" mcompare()



---


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

```

```

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


---


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


---


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

```

```

= if 1 < 2 {
- exit


---


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

```

```

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



---


> _____ end _get_mcompar
> e _____
    - if "`s(method)`" != "" {
= if "noadjust" != "" {
- loca mcopt mcompare(`s(method)` `s(adjustall)`)
= loca mcopt mcompare(noadjust )
- }
- _get_diopts diopts, `s(options)`
= _get_diopts diopts, level(95.00) 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 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) FWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive ""



---


> _____ begin opts_exclusiv
> e _____
    - version 8.2

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`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 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(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' `fwrapon' `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 `"$fwrap(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 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 [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, W0rd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvrapon
= opts_exclusive " " fvrapon

```

---

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while ""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }
----- end _get_diopts.Wrapo
> n -----
    - if ```fwrap''' != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' ```options'''
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'

```

```

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


---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2""` == "" {
    = if `""` == "" {
    - 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 ++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 fvwrapon `word' `width'
= local fvwrapon

```

```

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



---


> n _____ 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



---


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

```

```

        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = `""`S_`sname```"
    = sreturn local level = `"95"`
    - }
    - sreturn local `sname' = `""`S_`sname```"
    = sreturn local method = `"noadjust"`
    - }
    - sreturn local `sname' = `""`S_`sname```"
    = sreturn local options = `"level(95.00) fvwrap(1)"'
    - }



---


> _____ end _get_diopt
> s _____
    - if !`:length local first' {
    = if !0 {
    - local first showeqns
    - }
    - if `neq' < 1 {
    = if -1 < 1 {
    - _ms_eq_info
    - local neqopt neq(`r(k_eq)')
    = local neqopt neq(1)
    - }
    - else {
    local neqopt neq(`neq')
    }
    - _coef_table, nodiparm nocnsreport noeqlcheck eformall `eform' `

> first' `neqopt' `plus' `beta' `mcopt' `diopts'
    = _coef_table, nodiparm nocnsreport noeqlcheck eformall showeqns
> neq(1) mcompare(noadjust ) fvwrap(1)



---


> _____ begin _coef_tabl
> e _____
    - version 11
    - local vv : di "version " string(max(11,_caller())) ", missin
> g:"
    - if (!c(noisily) & c(coeftabresults) == "off") {
    exit
    }
    - _check_eclasse
    - syntax [, BMATrix(passthru) VMATrix(passthru) * ]
    - if "`e(b)'" == "" & "`e(V)'" == "" & "`bmatrix``vmatrix'"==""
> " {
```

```

= if "matrix" == "" & "matrix" == "" & ""=="" {
    exit
}
- local mc_cmds contrast margins pwcompare pwmean
- local cmd "`e(cmd)'"
= local cmd "regress"
- local keepmc : list cmd in mc_cmds
- if inlist("`cmd'", "pwcompare", "pwmean") {
= if inlist("regress", "pwcompare", "pwmean") {
    local groups GROUPS
}
- if "`cmd'" == "regress" {
= if "regress" == "regress" {
    local beta Beta
}
- if "`cmd'" == "gsem" {
= if "regress" == "gsem" {
    local fvignore fvignore(int 0)
    local flignore flignore
}
- if "`cmd'" == "sem" {
= if "regress" == "sem" {
    local standardized STANDARDIZED
    local showginvariant SHOWGINVariant
    local nolabel NOLABel LABel NOFVLABEL FVLABEL
    local nofootnote NOFOOTnote
    local wrap wrap(numlist max=1) fwrap(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 selec
> 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 ("`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 DUNNnett SCheffe S
> IDak SNK TUKey ADJustall
  - if `is_pwc' {
  = if 0 {
    syntax [name] [, `OPTIONS' MCOMPare(string) *]
  }
  - else {
    syntax [name] [, MCOMPare(string) *]
    - local suboption mcompare()
  }
  - sreturn clear
  - sreturn local options `"`options`"""
  = sreturn local options `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 ++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 FWWRAP(passthru)
> FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEG
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive ``allbaselevels' `noallbaselevels''
      = opts_exclusive " "


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

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

```

---

```

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

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

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

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

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

```

```

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



---


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



---


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

```

```

- GetDiopts DEFAULT


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv

```

```

> e -----
    - opts_exclusive ``coeflegend' `selegend''
    = opts_exclusive " "
-----

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

```

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

```

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


---


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

```

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2""` == "" {
    = if `""`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 FWRAP(passthru)
> FWRAPON(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) 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 `"
> _____ 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' `fwrap' `fvrapon' `fvlable' `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 NO0MITted 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 , `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 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' `fvwrapon' `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 ignore `""`fwwrap(1)`"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname` = s(`sname`)
= local S_level = s(level)
- }
- local S_`sname` = s(`sname`)
= local S_options = s(options)
- }
- local S_`sname` = s(`sname`)
= local S_method = s(method)
- }
- sreturn clear
- GetDiopts DEFAULT


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

---

```

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

```

---

```

> _____ 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` `nci` `nopvalues` `markdown` `citype` `a
> bbrev'
  = c_local DEFAULT
  - if `K' == 2 {
  = if 1 == 2 {
    c_local `c_opts` `""`options"""
  }
  - sreturn local coding `coding'
  = sreturn local coding
  - sreturn local versus `versus'
  = sreturn local versus
  - sreturn local compare `compare'
  = sreturn local compare
  - sreturn local level `level'
  = sreturn local level 95

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

```

---

```

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

```

```

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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid 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' `noci' `nopvalues' `markdown' `citype' `a

```

```

> bbrev'
= c_local DUP$S
- 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 DUP$S options, `options'
    c_local `name2' `""`options"""
    }
- local DUP$S : list DUP$S - DEFAULT
- gettoken DUP$S : DUP$S
- if `""`DUP$S""' != ""' {
= if `""' != ""' {
    if (strpos(`""`DUP$S""', "(")) {
        gettoken DUP$S : DUP$S, parse("(")
        local DUP$S `""`DUP$S'()"'
    }
    di as err "duplicate {bf:`DUP$S'} 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__) soptions
> ons
    = _get_eformopts , eformopts() allowed(__all__) soptions
-----
> ----- begin _get_eformopt
> s -----
    - version 8.0
    - syntax [, eformopts(string asis) soptions ALLOWed(string)
> ]
    - local 0 , `eformopts'
    = local 0 ,
    - local EFALL NOHR hr NOSHR shr or IRR RRr tr TRatio
    - if "`soptions'" != "" {
    = if "soptions" != "" {
    - syntax [, EForm1(passthru) EForm `EFALL' * ]
    = syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR
> RRr tr TRatio * ]
    - local opts `""`options``
    = local opts `"""
    - local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or'
> `irr' `rrr' `tr' `tratio'
    = local 0 ,
    - }
    - if "`allowed'" == "__all__" {
    = if "__all__" == "__all__" {
    - local allowed `EFALL'
    = local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
    - }
    - foreach ef of local allowed {
    - capture confirm name `ef'
    = capture confirm name NOHR
    - if _rc {
        di as err "`ef' is not a valid name"
        exit 198
    }
    - local efopts `efopts' `=lower("`ef'")'
    = local efopts nohr
    - }
    - capture confirm name `ef'

```

```

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

```

```

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

```

```

= local eform
-
= local eform ``eform' ``ef''
-
= local eform
-
= local eform ``eform' ``ef''
-
= local eform
-
= local eform ``eform' ``ef''
-
= local eform
-
= 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 ("!="" | "") {
    local eformdi `s(str)'

```

```

        = local eformmdi `"""
        - }
        - else {
            local eformmdi `"`eform_cons_ti`"""
            local tr_item = cond(missing(``eform_cons_ti2''), strlower(``eform_cons_ti`"""),
> ``eform_cons_ti2``), `"`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 `""` == `"" & `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 ``options''' = "" {
= if '''' = "" {
- syntax [, diparm(string asis) ]
- }
- if ("`execute'" = "") {
= if ("" = "") {
- sreturn clear
- sreturn local options ```options''''

```

```

= sreturn local options `"""
- sreturn local diparm ```diparmopts"""
= sreturn local diparm `"""
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' ```diparm`i"""
}
- sreturn local k `k'
= sreturn local k 0
- exit
_____
> _____ end _get_diparmopt
> s _____
- local NODIPARM : length local nodiparm
- if `NODIPARM' {
= if 8 {
- local options
- }
- local GTOPTS parse(":") bind quotes
- local k 0
- if !`NODIPARM' {
= if !8 {
    if ```e(diparm)' != "" {
local i 0
local diparm ```e(diparm)'"
}
else if ```e(diparm1)' != "" {
local i 1
local diparm ```e(diparm1)'"
}
while `:length local diparm' {
gettken diparm rest : diparm, `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'
gettken 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) [, *]
    - gettken name1 namelist : namelist
    - gettken 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 ``fvlabel' `nofvlabel''
  = opts_exclusive " "

```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


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

```

```

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

```

---

```

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

```

```

        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fwrapon
    = opts_exclusive " " fwrapon


---


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


---


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


---


> _____ end _get_diopts.Wrapo
> n _____
    - if ```fwrap''' != "" {
    = if "fwrap(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')}; "
> "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 __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 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 ``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 $format `"$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.$rapon
> 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_exclusive
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 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 : DUPPS
- if `""`DUPPS`"" != "" {
= if `""` != "" {
    if (strpos(`""`DUPPS`""", "(")) {
        gettoken DUPS : DUPPS, parse("(")
        local DUPS `""`DUPPS`()""
    }
    di as err "duplicate {bf:`DUPPS`} 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 `""`!=`"" & ("`e(cmd)`""!=`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'!=0 & `e(noconstant)'==0 & `eform_co
> ns_ti'!=0 & `e(consonly)'!=1) {
        = if (`cmd'!=0 & `cmd'!=1 & `cmd'!=1) {
            if (`e(cmd)'=="asclogit" | `e(cmd)'=="cmclogit" | `e(cm
> d)'=="cmmixlogit" | `e(cmd)'=="cmxtmixlogit" ) {
                local asvar = `e(ranvars)`e(fixvars)`e(indvars)' != ""
                if `e(casevars)' != "" & `asvar' {
                    local note1 "Exponentiated coefficients represent odds ratio
> s for "
                    local note2 "alternative-specific variables (first equation)
> and "
                    local note3 "{help j_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)'==0) {
                    local cmd `e(cmd)'
                }
                else {
                    local cmd `e(cmd2)'
                }
                local f2 = uds substr(`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 _____
        - tempfile 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"!="`" {
        - tempfile 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) `scopt' `robust' `clopt' `initopt' `ll0' `
> negh' `moptobj'
      = version 18, missing: ml model e2 poiss_lf (y_timing_max: y_timing_
> max = cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq o
> pen wg_ndx, ) [] if __000002, collinear missing max nooutput nopreserve ti
> tle(Poisson regression) robust init(__000006) search(off) lf0(1 -437.38528
> 4075989) negh


---


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


---


> _____ begin mop
> t _____
      - local vv : di "version " string(_caller()) ":""
      - version 12
      - gettoken subcmd 0 : 0, parse(" ,")
      - local lcmt : 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_tit
> ming_max = cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_
> neq open wg_ndx, ) [] if __000002, collinear missing max nooutput nopreserv
> e title(Poisson regression) robust init(__000006) 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(passth
> u) moptobj(string) USEVIEWS * ]
        - if ``moptobj''' == "" {
        = if "" == "" {
            - Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop
    - capture drop $ML_samp
    = capture drop
    - capture drop $ML_sample
    = capture drop
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()

```

```

- macro drop ML_*


---


> _____ end mopt.Clea
> r _____
- }
- local maxmin `minimize' `maximize'
= local maxmin  maximize
- opts_exclusive ``maxmin''
= opts_exclusive "maximize"


---


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


---


> _____ end opts_exclusiv
> e _____
- if `:length local maxmin' {
= if 8 {
- local interactive 0
- }
- else local interactive 1
- _get_diparmopts, diparmopts(`options') soptions syntaxonly
= _get_diparmopts, diparmopts(search(off)) soptions syntaxonly


---


> _____ begin _get_diparmopt
> s _____
- if _caller() < 8.2 {
    _get_diparmopts_8 `0'

```

```

        exit
    }
- version 9
- local version : di "version " string(_caller()) ":""
- syntax [, diparmopts(string asis) EXECute options bottom
> plus SYNTAXonly * ]
    - local goptions `options'
    = local goptions
    - SpliceGlobals junk , `goptions'
    = SpliceGlobals junk ,


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
    - syntax name(id="macro name" name=c_diparm) [, diparm(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
        - if `"`dof`"" == "" & `"`e(df_r)`"" != "" {
        = if `""` == "" & `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 `""`$before`"""
local after `""`$after`"""
}
capture
SpliceGlobals diparm , diparm(`diparm') `syntaxonly` `gopt
> ions'
local diparm`k' `""`diparm"""
local diparmopts `""`diparmopts' : `diparm"""
if `single' | `":list retok after"''' == "" {
local 0 `", `options"""
syntax [, diparm(string asis) * ]
}
else {
local diparm `""`after`"""
}
}
- if `""`$options''' == "" {
= if `"$options"' == "" {
syntax [, diparm(string asis) ]
}
- if (`execute''' == "") {
= if ("'" == "") {
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `""`search(off)`"""
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `"""
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `""`diparm`i`"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- forval k = 1/`$k' {
= forval k = 1/0 {
    local diparm`k' `""`$(`diparm`k')"""
}
- local ndiparm `$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(usersversion) >= 15 {
- local fparm ", freeparm"
-
- local eqspec : copy local spec
- local ieq 0
- while `:length local eqspec' {
= while 118 {
- 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  `),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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  `)
- if bsubstr(`p2`,1,1) == ","
= if bsubstr(`y_timing_max: y_timing_max = cb_authors_ext esti
> mated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  `),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
> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  `)` == "()" {
    local spec : subinstr local spec `eq` "(eq`ieq`:", word
}
}
}
- while `:length local eqspec' {
= while 3 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(`eq`),1,1) == "/" {
= if bsubstr(trim(`[]`),1,1) == "/" {
    local eq = bsubstr(trim(`eq`),2,.)
    local spec : subinstr local spec `/`eq` `"(`eq`:`fparm`)"
> ', word
}
- else {
- gettoken p1 p2 : eq, parse("()")
- local p2 = trim(`p2`)
= local p2 = trim(``)
- if bsubstr(`p2`,1,1) == ","
= if bsubstr(``,1,1) == ","
    gettoken comma p2 : p2, parse(",")
    local p2 = trim(`p2`)
}
}
}

```

```

- if `""`p1``p2""` == "()" {
= if `""`[]` == "()" {
    local spec : subinstr local spec "`eq`" "(eq`ieq':)", word
}
-
-
- while `:length local eqspec' {
= while 0 {
    local ++ieq
    gettoken eq eqspec : eqspec, bind
    if bsubstr(trim(`eq`),1,1) == "/" {
        local eq = bsubstr(trim(`eq`)),2,.
        local spec : subinstr local spec "/`eq`" `"(`eq`":`fparm')"
    }
}
else {
    gettoken p1 p2 : eq, parse("()")
    local p2 = trim(`p2`)
    if bsubstr(`p2`,1,1) == "," {
        gettoken comma p2 : p2, parse(",")
        local p2 = trim(`p2`)
    }
    if `""`p1``p2""` == "()" {
        local spec : subinstr local spec "`eq`" "(eq`ieq':)", word
    }
}
}
-
if `interactive' {
= if 0 {
    SetGlobalVar ML_sample : _MLtua
}
-
else {
-
global ML_sample : tempvar
-
if `""`moptobj` != ""` {
= if `""` != ""` {
    global ML_sample `moptobj'$ML_sample
}
-
if `""`moptobj` != ""` {
= if `""` != ""` {
    cap drop $ML_sample
}
-
`vv' mark $ML_sample `if' `in' [`weight``exp'], `zeroweight'
= version 18: mark __000007 if __000002 [],
-
tempname eqlist
-
`eqlist' = __eqlist.new, eqopts(NOCNStant FREEParm) eqargs

```

```

> pts(OFFset EXposure) noneedvarlist numdepvars(0) needequal
      = .__000008 = ._eqlist.new, eqopts(NOCONstant FREEParm) eqargo
> pts(OFFset EXposure) noneedvarlist numdepvars(0) needequal
  -class {
    -instance:
      - array      n_depvars
      - string     needequal
      - string     noneedvarlist
      - string     wtypes
      - string     collinear
      - string     nocons
      - string     nocons_ignore
      - double    n_eq
      - string     gl_if
      - string     gl_in
      - string     gl_wgt
      - string     gl_options
      - _optlist   eq_opts_allowed
    -class {
      -instance:
        - array options = {}
        - array names  = {}
      -}
      - array      eq_list
      - _optlist   mark_opts
      - array      mark_list
      - array      mark_name
      - _optlist   smark_opts
      - array      smark_list
      - array      smark_name
      - _optlist   rmcoll_opts
      - array      rmcoll_list
      - array      rmcoll_name
      - _optlist   rmdcoll_opts
      - array      rmdcoll_list
      - array      rmdcoll_name
    -}
  -}



---


> _____ begin _eqlist.ne
> w _____
  - version 9.2
  - ._init


---


> _____ begin _eqlist._ini
> t _____
  - version 9.2

```

```

- .n_eq = 0
- .gl_if = ""
- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}

> _____ end _eqlist._ini
> t _____
- ._setup `0'
= ._setup , eqopts(NOCONstant FREEParm) eqargopts(OFFset EXP
> osure) noneedvarlist numdepvars(0) needequal

> _____ begin _eqlist._setu
> p _____
- version 9.2
- .mark_list = {}
- .mark_name = {}
- .mark_opts.reset

> _____ begin _optlist.rese
> t _____
- version 9
- .options = {}
- .names = {}

> _____ end _optlist.rese
> t _____
- .smark_list = {}
- .smark_name = {}
- .smark_opts.reset

> _____ begin _optlist.rese
> t _____
- version 9
- .options = {}
- .names = {}

> _____ end _optlist.rese
> t _____
- .rmcoll_list = {}
- .rmcoll_name = {}
- .rmcoll_opts.reset

> _____ begin _optlist.rese
> t _____

```

```

    - version 9
    - .options = {}
    - .names = {}



---


> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset



---


> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}



---


> _____ end _optlist.rese
> t _____
    - syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVAR
> LIST COMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLop
> ts(namelist) RMDCOLLopts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL
> WTYPES(string) IGNORENOCONS ]
    - .eq_opts_allowed.reset



---


> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}



---


> _____ end _optlist.rese
> t _____
    - foreach opt of local eqopts {
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt NOCONSTANT



---


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

```

```

- .options.Arppush "`optspec'"
= .options.Arppush "NOCONSTant"
- .names.Arppush "`mname'"
= .names.Arppush "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.Arppush "`optspec'"
= .options.Arppush "FREEParm"
- .names.Arppush "`mname'"
= .names.Arppush "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.Arppush "`optspec'"
= .options.Arppush "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 numdeps {
- .n_deps.push `ndep'
= .n_deps.push 0
- }
- }
- else .n_deps.push 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'
    = __000008.parse (y_timing_max: y_timing_max = cb_authors_ex
> t estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx, ) []

```

---

```

> _____ 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx, ) []", pa
> rse(",(),[])
- local rebind = `""`1"" != "(" & `""`2"" == "("
= local rebind = `"((" != "(" & `"y_timing_max: y_timing_max
> = cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open
> wg_ndx" != "("
- }
- 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(600013ba8c40):y_timing_max: y_timi
> ng_max = cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_ne
> q open wg_ndx



---


> _____ begin _eqspec.pars
> e _____
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(600013ba8c40):y_timing_max: y_timi
> ng_max = cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_ne
> q open wg_ndx

```

---

```
> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par)
> quotes
    - if ``par'' != "" {
    = if "" != "" {
        local before `"(`before')``"
    }
    - if ```before''' == ":" {
    = if ``__key(600013ba8c40)''' == ":" {
        sreturn local after ```after'''"
        exit
    }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while ``''' != ":" & `":y_timing_max: y_timing_max = cb
> _authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_n
> dx'' != "" {
    - 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_n
> dx'' != "" {
    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(600013ba8c40)`"
- sreturn local after `"`after`"
= sreturn local after `y_timing_max: y_timing_max = cb_
> authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_nd
> x```

```

---

```

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013ba8c40)
    - 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.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 `"$noconstant freparm offset ex
> posure"
- class exit `""`namelist"""
= class exit `"$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 es
> timated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx"""

```

```

- 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("=".)
    - if "`DEPVARS'" == "=" {
    = if "y_timing_max" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if (`:length local DEPVARS' == 0 & `n_depvars') {
    = if (13 == 0 & 0) {
        di as err "nothing found where depvar expected"
        exit 198
    }
    - if `"\`REST`"' == "" {
    = if `"\`DEPVARS`"' == "" {
        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) M
> AX(integer 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 stky_pr_rot
> emberg wlth stky_pr_calvo ln_neq open wg_ndx


---


> _____ begin fvuna
> b _____
    - version 11
    - _on_colon_parse `0'
    = _on_colon_parse INDEPVARS : cb_authors_ext estimated

```

```

> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx


---


> _____ 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 ``INDEPVARS '' == ":" {
        sreturn local after ```after'''"
        exit
    }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while ``''' != ":" & `":` cb_authors_ext estimated st
> ky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx'' != "" {
    - 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 st
> ky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx'' != "" {
    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 stk
> y_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx"

```

---

```

> _____ 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 stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open wg_ndx"
        - 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 stky_pr_rot
> emberg wlth stky_pr_calvo ln_neq open wg_ndx
        - 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 = `"\`DEPVAR`"
= .depvars = `"\`y_timing_max`"
- .hasequal = `hasequal'

```

```

= .hasequal = 1
- .indepvars = `":list retok INDEPVARS"`
= .indepvars = `cb_authors_ext estimated stky_pr_rotember
> g wlth stky_pr_calvo ln_neq open wg_ndx"
- .other_markvars = `":list retok OTHER"`
= .other_markvars = `""'
- .nocons = `NOCONS'
= .nocons = 0
- .if = `":HOLDIF"`
= .if = `""'
- .in = `":HOLDIN"`
= .in = `""'
- .wgt = `":HOLDWGT"`
= .wgt = `""'
- .offset = `":OFFSET"`
= .offset = `""'
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 0
- .options = `":OPTIONS"`
= .options = `""'



---


> _____ end _eqspec.pars
> e _____
- }
- local MARKOPTLIST `".mark_opts.dumpoptions"`



---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `":optlist"'
= sreturn local optlist `""'
- class exit `":optlist"'
= class exit `""'



---


> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""'
- local MARKOPTNAMES `".mark_opts.dumpnames"`



---



```

```

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""

> _____ end _optlist.dumpname
> s _____
    = local MARKOPTNAMES `"""
    - local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "
> (string asis)", all
    - local SMARKOPTLIST `""`.smark_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

> _____ end _optlist.dumpoption
> s _____
    = local SMARKOPTLIST `"""
    - local SMARKOPTNAMES `""`.smark_opts.dumpnames"""

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.`names[`i']'
    }
    - local namelist : list uniq namelist

```

```

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



---


> _____ end _optlist.dumpname
> s _____
    = local SMARKOPTNAMES `"""
    - local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)"
> "(string asis)", all
    - local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""



---


> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
    = local RMCOLLOPTLIST `"""
    - local RMCOLLOPTNAMES `""`.rmcoll_opts.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""



---


> _____ end _optlist.dumpname
> s _____
    = local RMCOLLOPTNAMES `"""

```

```

    - local OPTLIST2 : subinstr local RMDCOLLOPTLIST "(passthru)"
> "(string asis)", all
    - local RMDCOLLOPTLIST `"\`rmdcoll_opts.dumpoptions`"""


---


> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/\`options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `\`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `"\`optlist`"""
    = sreturn local optlist `"""
    - class exit `"\`optlist`"""
    = class exit `"""


---


> _____ end _optlist.dumpoption
> s _____
    = local RMDCOLLOPTLIST `"""
    - local RMDCOLLOPTNAMES `"\`rmdcoll_opts.dumpnames`"""


---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/\`names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `\`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `"\`namelist`"""
    = sreturn local namelist `"""
    - class exit `"\`namelist`"""
    = class exit `"""


---


> _____ end _optlist.dumpname
> s _____
    = local RMDCOLLOPTNAMES `"""
    - local OPTLIST3 : subinstr local RMDCOLLOPTLIST "(passthru"
> " "(string asis)", all
    - local 0 `", `GL_op`"""
    = local 0 `", `"
    - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COL
> linear noCONSTant * ]
    = syntax [, COLlinear noCONSTant * ]
    - local GL_op `"\`options`"""

```

```

= local GL_op `"""
- if ``collinear''' != "" {
= if `''' != "" {
    local GL_op ``GL_op' `collinear'''"
    .collinear = ``collinear'''"
}
- if ``constant''' != "" {
= if `''' != "" {
    local GL_op ``GL_op' `constant'''"
    .nocons = ``constant'''"
}
- local I 0
- foreach OPT of local MARKOPTNAMES {
    if `:list sizeof `OPT''' {
        .mark_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtype
> s')
        .mark_list[`I'].parse "" : ``OPT'''"
        .mark_name.Arrpush ``OPT'''"
    }
}
- local I 0
- foreach OPT of local SMARKOPTNAMES {
    if `:list sizeof `OPT''' {
        .smark_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtyp
> es')
        .smark_list[`I'].parse "" : ``OPT'''"
        .smark_name.Arrpush ``OPT'''"
    }
}
- local I 0
- foreach OPT of local RMCOLLOPTNAMES {
    if `:list sizeof `OPT''' {
        .rmcoll_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wty
> pes')
        .rmcoll_list[`I'].parse "" : ``OPT'''"
        .rmcoll_name.Arrpush ``OPT'''"
    }
}
- local I 0
- foreach OPT of local RMDCOLLOPTNAMES {
    if `:list sizeof `OPT''' {
        .rmdcoll_list[`++I'] = ._eqspec.new, wtypes(`.wtypes')
        .rmdcoll_list[`I'].parse "" : ``OPT'''"
        .rmdcoll_name.Arrpush ``OPT'''"
    }
}

```

```

- .n_eq = `EQ_n'
= .n_eq = 1
- .gl_if = `""`GL_if"""
= .gl_if = `"""
- .gl_in = `""`GL_in"""
= .gl_in = `"""
- .gl_wgt = `""`GL_wt"""
= .gl_wgt = `""[]"
- .gl_options = `""`:list retok GL_op"""
= .gl_options = `"""

> _____ end _eqlist.pars
> e _____
- if "`subpop'" != "" & "`missing'" == "" {
= if "" != "" & "missing" == "" {
    if `interactive' {
        SetGlobalVar ML_samp : _MLtu
    }
    else {
        global ML_samp : tempvar
        if `moptobj'" != "" {
            global ML_samp `moptobj'$ML_samp
        }
    }
    tempvar markuse
    _svy_setup $ML_sample $ML_samp, svy subpop(`subpop')
    quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000007
- if "`collinear'" == "" {
= if "collinear" == "" {
    .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if "`missing'" == "" {
= else if "missing" == "" {
    .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000007" != "__000007" {
    `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
    drop `markuse'
}
- local eq_n = `.`eqlist'.eq count'

> _____ begin _eqlist.e

```

```

> q -----
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "count" == "count" {
    - sreturn local value `".n_eq"
    = sreturn local value "1"
    - class exit `s(value)'
    = class exit "1"

-----
> ----- end _eqlist.e
> q -----
    = local eq_n = 1
    - global ML_n : copy local eq_n
    - global ML_dim = `.`eqlist'.dim'

-----
> ----- begin _eqlist.di
> m -----
    - version 9.2
    - syntax
    - local neq = `eq count'

-----
> ----- begin _eqlist.e
> q -----
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "count" == "count" {
    - sreturn local value `".n_eq"
    = sreturn local value "1"
    - class exit `s(value)'
    = class exit "1"

-----
> ----- end _eqlist.e
> q -----
    = local neq = 1
    - forval i = 1/`neq' {
    = forval i = 1/1 {
    - local 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 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars

```

---

```

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars

```

---

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars IND
> EPvars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `w
> gt' `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item indepvars

```

---

```

> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""` .item"""
= local value `""` cb_authors_ext estimated stky_pr_rotember
> rg wlth stky_pr_calvo ln_neq open wg_ndx"""
- sreturn local value `""` value"""
= sreturn local value `""` cb_authors_ext estimated stky_pr
> _rotemberg wlth stky_pr_calvo ln_neq open wg_ndx"""
- class exit `""` value"""
= class exit `""` cb_authors_ext estimated stky_pr_rotember
> g wlth stky_pr_calvo ln_neq open wg_ndx"""

```

---

```

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

```

---

```

> _____ end _eqlist.e
> q _____
  = local xvarsi `"\`cb_authors_ext estimated stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open wg_ndx"
  - local noconsi `"\`.eq nocons `i`"

```

---

```

> _____ begin _eqlist.e
> q _____
  - version 9.2
  - args item idx
  - if `item` == "count" {
  = if "nocons" == "count" {
    sreturn local value `"\`.n_eq`
    class exit `"\`s(value)"`
  }
  - else if 0 < `idx` & `idx` <= `.\n_eq` {
  = else if 0 < 1 & 1 <= 1 {
    - .eq_list[`idx'].item `item'
    = .eq_list[1].item nocons

```

---

```

> _____ begin _eqspec.ite
> m _____
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
  = ._check_eq_item_name item, nocons

```

---

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars IND
> EPvars IF IN WGT OTHER NOCONS OFFset EXposure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
  = if 0 {
    local other other_markvars
  }
  - local item `name` `depvars` `indepvars` `if` `in` `w
> gt` `other` `nocons` `offset` `exposure` `freeparm` `options'

```

```

= local item      nocons
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
>   - local value `""`item"""
= local value `""`0"""
- sreturn local value `""`value"""
= sreturn local value `""`0"""
- class exit `""`value"""
= class exit `""`0"""


---


> _____ end _eqspec.ite
> m _____
>   - class exit `""`s(value)"""
= class exit `""`0"""


---


> _____ end _eqlist.e
> q _____
>   = local noconsi `""`0"""
- local dim = `dim' + `:list sizeof xvars'
= local dim = + 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_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 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' `freparm' `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' `freparm' `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 stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open wg_ndx"""
- sreturn local value `""`value"""
= sreturn local value `cb_authors_ext estimated stky_pr_r
> otemberg wlth stky_pr_calvo ln_neq open wg_ndx"""
- class exit `""`value"""
= class exit `cb_authors_ext estimated stky_pr_rotemberg
> wlth stky_pr_calvo ln_neq open wg_ndx"""


---


> _____ end _eqspec.ite
> m _____

```

```

- class exit `""`s(value)"""
= class exit `""`cb_authors_ext estimated stky_pr_rotemberg wl
> th stky_pr_calvo ln_neq open wg_ndx"""

> _____ end _eqlist.e
> q _____
= fvexpand cb_authors_ext estimated stky_pr_rotemberg wlth stk
> y_pr_calvo ln_neq open wg_ndx 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 stky_pr_rotemberg w
> lth stky_pr_calvo ln_neq open wg_ndx"""
- 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' `devars' `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 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' `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_nam
> e -----
    - local value `""` `item`"""
    = local value `"""
    - sreturn local value `""` `value`"""
    = sreturn local value `"""
    - class exit `""` `value`"""
    = class exit `"""
    -----
> ----- end _eqspec.ite
> m -----
    - class exit `""` `s(value)`"""
    = class exit `"""
    -----
> ----- end _eqlist.e
> q -----
    = local eq_offset1
    - local eq_exposure`i' `.` `eqlist'.eq exposure `i'
    -----
> ----- begin _eqlist.e

```

```

> q -----
  - version 9.2
  - args item idx
  - if "`item'" == "count" {
= if "exposure" == "count" {
    sreturn local value `"\`n_eq``"
    class exit `"\`s(value)``"
}
- else if 0 < `idx' & `idx' <= `.\n_eq' {
= else if 0 < 1 & 1 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item exposure
-----
```

---

```

> ----- begin _eqspec.ite
> m -----
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, exposure
-----
```

---

```

> ----- begin _eqspec._check_eq_item_nam
> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
  - local item `name' `depvars' `indepvars' `if' `in' `wgt
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item exposure
  - if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
  - c_local `c_item' `item'
= c_local item exposure
-----
```

---

```

> ----- end _eqspec._check_eq_item_nam
> e -----
  - local value `"\`item``"
= local value `"\`0``"
  - sreturn local value `"\`value``"
= sreturn local value `"\`0``"
```

```

- class exit `""`value"""
= class exit `""`0"""

> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)`"""
= class exit `""`0"""

> _____ end _eqlist.e
> q _____
= local eq_exposure1 0
- local eq_freeparm`i` `.`eqlist'.eq freeparm `i``

> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if `item` == "count" {
= if "freeparm" == "count" {
    sreturn local value `""`.n_eq`"""
    class exit `""`s(value)`"""
}
- else if 0 < `idx` & `idx` <= `.`n_eq`{
= else if 0 < 1 & 1 <= 1 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item freeparm

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, freeparm

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name` `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"""
        - }
        - gettoken xvar TMP : TMP
        - local colna `""`colna' `eq':`xvar"""
        = local colna `"" y_timing_max:cb_authors_ext y_timing_max:esti
> mated"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `""`colna' `eq':`xvar"""

```

```

        = local colna `"` y_timing_max:cb_authors_ext y_timing_max:esti
> mated 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:esti
> mated 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:esti
> mated 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:esti
> mated 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:esti
> mated 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"
    - }
    - gettoken xvar TMP : TMP
    - local colna ```colna' `eq':`xvar'"
    = local colna `"` y_timing_max:cb_authors_ext y_timing_max:esti
> mated 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:wg_ndx"
    - }
    - 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:esti
> mated 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:wg_ndx 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'
        }
    }
}
- }
- 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 & 19 {
    opts_exclusive "waldtest() lf0()"
}
- if `:length local continue' {
= if 0 {
    if !`:length local init' {
        tempname init
        local ub0 `init'
    }
    else tempname ub0
    mat `ub0' = e(b)
    tempname v0 iv0
    mat `v0' = e(V)
    mat `iv0' = syminv(`v0')
}

```

```

global ML_rank0 = colsof(`v0') - diag0cnt(`iv0')
if !`:length local lf0' & !missing(e(ll)) {
    local lf0 `=colsof(`ub0')` `e(ll)'
}
local ub0
}
- if `:length local init' {
= if 8 {
- tempfile b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000009 = J(1,9,0)
- matrix colna `b0' = `colna'
= matrix colna __000009 = y_timing_max:cb_authors_ext y_timin
> g_max:estimated y_timing_max:stky_pr_rotemberg y_timing_max:wlth y_timing_ma
> x:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx 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 "__000006", parse(" =")
    - tempname matadd
    - local i 1
    - while "`i'!="
= while "__000006"!="
    - local k = `i' + 1
= local k = 1 + 1
    - if "`k'==="
= if ""=="
        local j = `i' + 2
        `vv' MkMat `matadd' ``i'' ``j'' `skip'
        local i = `i' + 3
    }
    - else {
    - ChkMat `matadd' ``i'' `error'"
= ChkMat __00000B __000006 "initial vector: "


---


> _____ begin _mkvec.ChkMa
> t _____
    - args matout matin error
    - capture di matrix(`matin'[1,1])
= capture di matrix(__000006[1,1])
    - if _rc {
        capture confirm number `matin'
        if _rc {
            di in red `error'matrix `matin' not found"

```

```

        exit 111
    }
    di in red `''`error'list of numbers requires copy optio
> n''
        exit 198
    }
- if matrix(rowsof(`matin')!=1 & colsof(`matin')!=1) {
= if matrix(rowsof(__000006)!=1 & colsof(__000006)!=1) {
    di in red ``matin' " matrix(rowsof(`matin')) " x " mat
> rix(colsof(`matin')) " is not a vector"
        exit 503
    }
- if matrix(rowsof(`matin')) == 1 {
= if matrix(rowsof(__000006)) == 1 {
- mat `matout' = `matin'
= mat __00000B = __000006
- }
- else mat `matout' = `matin'
= else mat __00000B = __000006'



---


> _____ end _mkvec.ChkMa
> t _____
- local i = `i' + 1
= local i = 1 + 1
- }
- mat `matall' = nullmat(`matall') , `matadd'
= mat __00000A = nullmat(__00000A) , __00000B
- }
- while ``i'''!="" {
= while ""!="" {
    local k = `i' + 1
    if ``k'''=="" {
        local j = `i' + 2
        `vv' MkMat `matadd' ``i'' ``j'' `skip'
        local i = `i' + 3
    }
    else {
        ChkMat `matadd' ``i'' ``error'''
        local i = `i' + 1
    }
    mat `matall' = nullmat(`matall') , `matadd'
}



---


> _____ end _mkvec.BuildMa
> t _____
- if ``colname'''!="" {

```

```

= if `"y_timing_max:cb_authors_ext y_timing_max:estimated 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:wg_ndx y_timing_max:_cons"'
> !="" {
    - `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: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:wg_ndx y_timing_max:_cons" `initial vector: "i "" "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"!="" {
        - gettokon 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 : coeq `x'
    = local eq : coeq __00000D
    - local name : colname `x'

```

```

= local name : colname __00000D
- if ``eq'' == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec ``eq':`name''
= local spec "_:cb_authors_ext"
- if (usubstr(``eq'',1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:cb_authors_ext"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse cb_authors_ext, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `""`r(stripe)`"""
    local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new','`spec``')
= version 18: local j = colnumb(__00000B,"_:cb_authors_ex
> t")
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
`vv' local j = colnumb(`new','`ospec``')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/_:cb_authors_ext" != "" {
`vv' local j = colnumb(`new','`sspec``')
}
- if `j'==. & ```eq'''=="_" & ```eq1'''!="" {
= if 1==. & "_"=="_" & `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 __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(stripes)'
    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 "_:stky_pr_rotemberg"
-
if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
-
local sspec "/`eq':`name'"
= local sspec "/_:stky_pr_rotemberg"
-
-
local oname
-
local ospec
-
capture _msparse `name', noomit

```

```

= capture _msparse_stky_pr_rotemberg, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(stripe)'
    local ospec ``eq':`oname''
}
- }
`vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(_00000B,':_:stky_pr_rotem
> berg''')
- if `j' == . & "`oname'" != "" {
= if 3 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 3 == . & "/:_:stky_pr_rotemberg" != "" {
    `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 "_: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(stripe)'''
    local ospec ```eq':`oname''"
}
- }
- `vv' local j = colnumb(`new','`spec''')

```

```

= version 18: local j = colnumb(__00000B,`"_:wlth")
- if `j' == . & "`oname'" != "" {
= if 4 == . & "" != "" {
    `vv' local j = colnumb(`new',`"`ospec'")
}
- if `j' == . & "`sspec'" != "" {
= if 4 == . & "/_:_wlth" != "" {
    `vv' local j = colnumb(`new',`"`sspec'")
}
- if `j'==. & `"_eq"=="_" & `"_eq1"!="_" {
= if 4==. & `"_eq"=="_" & `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 "_:stky_pr_calvo"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:stky_pr_calvo"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_pr_calvo, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)`'''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec``')
= version 18: local j = colnumb(__00000B,"_:stky_pr_calvo
> ")
- if `j' == . & "`oname'" != "" {
= if 5 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec``')
}
- if `j' == . & "`sspec'" != "" {
= if 5 == . & "/_:stky_pr_calvo" != "" {
    `vv' local j = colnumb(`new','`sspec``')
}

```

```

        }
- if `j'==. & ```eq'"=="_& ```eq1'"!"="" {
= if 5==. & "_"=="_" & ``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 "_: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(stripes)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000B,"_:ln_neq")
- if `j' == . & "`oname'" != "" {
= if 6 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 6 == . & "/_:ln_neq" != "" {
    `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 "_: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 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/_:open" != "" {
    `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 "_:wg_ndx"
          - if (usubstr("`eq'",1,1) != "/") {
          = if (usubstr("_",1,1) != "/") {
          - local sspec "/`eq':`name'"
          = local sspec "/_:wg_ndx"
          - }
          - }

```

```

- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wg_ndx, 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,':_:wg_ndx')
- if `j' == . & "`oname'" != "" {
= if 8 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 8 == . & "/:_:wg_ndx" != "" {
    `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(strip)''
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:stky_pr_rotemberg y_timing_max:wlth y_timing_ma
> x:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx 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)
tempname C
capture matrix `C' = e(Cns)
local rcc = c(rc)
}
local rc = c(rc)
ereturn clear
}
if (`rc') exit `rc'
if (`rcc') {
local C
local k_autoCns
}
}
- if `:length local constraints' {
= if 0 {
local lf0
}
- local vce `vce' `robust' `cluster'
= local vce robust
- if `:length local vce' {
= if 6 {
- _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old
> : `wt', `vce'
= _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old
> : , robust


---


> _____ begin _vce_pars
> e _____
- version 10
- _on_colon_parse `0'
= _on_colon_parse , argoptlist(CLuster) optlist(OIM OPG Robu
> st) old : , robust


---


> _____ begin _on_colon_pars
> e _____
- version 8.2
- sreturn local before """
- sreturn local after """
- 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.Arrpush ``optspec''
    = .options.Arrpush "OIM"
    - .names.Arrpush ``mname''
    = .names.Arrpush "oim"
    _____ end _optlist.addop
> t _____
    - }
    - .`o'.addopt `name'
    = .__0000B.addopt OPG
    _____ begin _optlist.addop
> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec`)
    = local mname = lower("OPG")

```

```

- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec'"
= .options.Arrpush "OPG"
- .names.Arrpush "`mname'"
= .names.Arrpush "opg"


---


> _____ end _optlist.addop
> t _____
- }
- .`o'.addopt `name'
= .__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'
= .__0000C.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 $ML_grp = group(`group')
        if ! `:length local cluster' {
            local cluster : copy global ML_group
        }
    }
    else {
        if ! `:length local cluster' {
            local cluster : copy global ML_group
        }
    }
}
- if "$ML_samp" != "$ML_sample" {

```

```

= if "__000007" != "__000007" {
    quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
- if `:length local vce' == 0 {
= if 6 == 0 {
    if `""`technique""' == "bhhh" {
        local vce opg
    }
    else local vce oim
}
- if inlist(`vce', "robust", "cluster") & bsubstr(`evaltype
> "",1,1) == "d" {
        = if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1)
> == "d" {
            local optname = cond(`svy'=="","vce(`vce')","svy")
            di as err "option `optname' is not allowed with evaltype `ev
> altype'"
            exit 198
}
- if `:length local crittype' == 0 {
= if 0 == 0 {
- if inlist(`vce', "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
- local crittype "log pseudolikelihood"
}
- else local crittype "log likelihood"
}
- global ML_waldtest `waldtest'
= global ML_waldtest -1
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {
        SetGlobalVar ML_w : _MLw
    }
    else {
        global ML_w : tempvar
        if `""`moptobj""' != "" {
            global ML_w `moptobj'$ML_w
        }
    }
}
- if `:length local weight' {
= if 0 {
    if `""`moptobj""' != "" {
        cap drop $ML_w
    }
}

```

```

quietly gen double $ML_w `exp' if $ML_samp
local wtype ```weight'''
local wexp ```exp''''
global ML_wtyp : copy local wtype
global ML_wexp : copy local wexp
if "`wtype'" == "iweight" | "`svy'" != "" {
    local zeroweight zeroweight
}
}
-
if inlist("`vce'", "svy", "cluster") {
=
if inlist("robust", "svy", "cluster") {
    if `interactive' {
        SetGlobalVar ML_subv : _MLsu
    }
    else {
        global ML_subv : tempvar
        if ```moptobj''' != "" {
            global ML_subv `moptobj'$ML_subv
        }
    }
}
-
quietly count if $ML_sample
= quietly count if __000007
-
if r(N) == 0 {
    error 2000
}
-
if ```weight''' != "" {
=
if `''' != "" {
    quietly count if $ML_sample & $ML_w != 0
    if r(N) == 0 {
        di in gr "all observation have zero weights"
        exit 2000
    }
}
-
if `:length local lf0' {
=
if 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.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_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_progra
> m _____
    - global ML_stat model
    - if !`interactive' {

```

```

        = if !0 {
        - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`mo
> ptobj'
        = 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 DIFFficult 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 ++
        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 "$ML_preserve" != "no" {
    = if "no" != "no" {
        if `:length local score' {
            di as smcl as err "May not specify {bf:score()} option unl
> ess" _n "      a) estimation subsample is the entire data in memory, or" _n "
>          b) you specify option {bf:nopreserve} on {bf:ml model} statement (meani
> ng" _n "          your evaluation program explicitly restricts itself to obs"
> _n "          for which {bf:$}" "{bf:ML_samp==1}.""
            exit 198
        }
        preserve
        local N = c(N)
        quietly keep if $ML_sample
        if (`N' != c(N)) {
            mata: Mopt_init_regetviews()
        }
    }
    - if `:length local score' {
    = if 0 {
        SetupScore `"$ML_evaltype"' `"`score'"' $ML_n $ML_dim
        local scores ``s(scores)'
    }

```

```

- _parse_iterlog, `nolog' `log'
= _parse_iterlog,


---


> _____ begin _parse_iterlo
> g _____
    - version 16
    - syntax [, NOLOG LOG]
    - if "`log'`nolog'" != "" {
    = if "" != "" {
        opts_exclusive "`log'`nolog'"
    }
    - else if "`c(iterlog)" == "on" {
    = else if "on" == "on" {
        local log log
    }
    - else {
        local nolog nolog
    }
    - sreturn local log `log'
    = sreturn local log log
    - sreturn local nolog `nolog'
    = sreturn local nolog


---


> _____ end _parse_iterlo
> g _____
    - local log "`s(nolog)'"
    = local log ""
    - local tropts `log' `dots' `showtolerance' `showstep' `trac
> e` `coefdiffs'
    = local tropts
    - if "`tropts'" != "nolog" {
    = if "" != "nolog" {
        local tropts `tropts' `gradient' `hessian'
    = local tropts
    - if "`skipline'" == "" {
    = if "" == "" {
        - if "`iterate'" != "0" | `:length local tropts' {
    = if "" != "0" | 0 {
        - di

```

```

- }
- }
- }
- else {
    local gradient
    local hessian
    local nolog noglog
}
- if "`search'" != "off" & "`iterate'" != "0" {
= if "off" != "off" & "" != "0" {
    if "`search'" == "quietly" {
        local sopts noglog
    }
    else {
        if `:length local tropts' {
            if "`tropts'" != "nolog" {
                local sopts trace
            }
            else local sopts noglog
        }
    }
    if "`search'" == "norescale" {
        local sopts `sopts' norescale
    }
    Search `bounds', nopreserve `sopts' `repeat' `maxmin'
}
- tempname value b V iV
- `vv' mata: Mopt_maxmin()
= version 18: mata: Mopt_maxmin()

```

---

```

> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
= mleval __00000Q = __00000K
- mlsu `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
= mlsu __00000L = -exp(__00000Q) + __00000Q*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 __000000 = y_timing_max - exp(__00000Q) if _
> _000007
    - $ML_ec mlevecsum `lnf' `g' = `score'
    = * mlevecsum __00000L __00000M = __00000
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000L==. {
        exit
    }
    - mleval `lnf' `H' = exp(`xb')
    = mleval __00000L __00000N = exp(__00000Q)


---


> _____ end poiss_l
> f _____
Iteration 0: Log pseudolikelihood = -373.82112


---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mleval `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mleval __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
    - mleval `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mleval __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 = __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 = -373.81642


---


> _____ 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
    _____
> f _____ end poiss_l
> f _____
> f _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*y_timing_max
> - lngamma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000L==. {
    - exit
    _____
> f _____ end poiss_l
> f _____
> f _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mlsum __00000L = -exp(__00000Q) + __00000Q*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
    }
    - mllmatsum `lnf' `H' = exp(`xb')
    = mllmatsum __00000L __00000N = exp(__00000Q)

```

---

```

> _____ end poiss_l
> f _____
Iteration 2: Log pseudolikelihood = -373.81642

```

---

```

> _____ 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", "svytot", "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(l
> ocal nch) all
    - if `nch' <= 1 {
    = if 0 <= 1 {
    - return local explist ````exp`````
    = return local explist `"[#1]"`````
    - return local nexp 1

```

```

        - exit


---


> _____ end test.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 `test' == "notest" {
        _test , notest
        exit
    }
    - quietly _test , `matvlc'
    = quietly _test ,
    - if `dof' < . {
    = if `dof' < . {
        local testtype F

```

```

tempname F df1 df2 p drop
if "`r(F)'" != "" {
    scalar `F' = r(F)
}
else {
    scalar `F' = r(chi2)/r(df)
}
scalar `df1' = r(df)
scalar `df2' = `dof'
scalar `p' = Ftail(`df1', `df2', `F')
scalar `drop' = r(drop)
}
- else {
- local testtype chi2
- tempname chi2 df1 p drop
- scalar `chi2' = r(chi2)
= scalar __00000U = r(chi2)
- scalar `df1' = r(df)
= scalar __00000V = r(df)
- scalar `p' = r(p)
= scalar __00000W = r(p)
- scalar `drop' = r(drop)
= scalar __00000X = r(drop)
- }
- local i 1
- while "`r(dropped_`i')'" != "" {
= while "" != "" {
    local dropped_`i' `r(dropped_`i')"
    local ++i
}
- if `svy_adjust' {
= if 0 {
    if "`df'" != "" {
        local svy_d = `df'
    }
    else if !missing(e(df_r)) {
        local svy_d = e(df_r)
    }
    else local svy_d = e(N_psu)-e(N_strata)
    if missing(`svy_d') {
        di as err "internal error in adjustment for svy"
        exit 10001
    }
    if "`testtype'" == "F" {
        scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
    }
}

```

```

        else {
tempname F df2
scalar `F' = ((`svy_d'-`df1'+1)/(`svy_d'*`df1')) * `
> 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}"
        _mttest 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 mttest `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 = ("`rc'" != "")
}
- 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 .1453383759497041
    - 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 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx [] 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 "from"==""
    `vvpoin' capture poisson `y' `xvars' [`weight'`exp'] if `touse', `offop
> t' `constan' iter(1)
    tempname bp
    mat `bp' = e(b)
}
- if "`constan'"=="" & "`from'"==""
= if "==" & "==" {
- if "`offset'"!=""
= if "!=" {
    SolveC `y' `offset' [`weight'`exp'] if `touse', mean(`mean')
    local c = r(_cons)
}
- else local c = ln(`mean')
= else local c = ln(__000001)

```

```

- tempfile 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' `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 `options' == "" {
    = if `options' == "" {
        syntax [, diparm(string asis) ]
    }
    - if (`execute' == "") {
    = if ('' == "") {
        - sreturn clear
        - sreturn local options `options'
        = sreturn local options `search(off)'
        - sreturn local diparm `diparmopts'
        = sreturn local diparm ''

```

```

    - forval i = 1/`k' {
    = forval i = 1/0 {
        sreturn local diparm`i' `""`diparm`i'""
    }
    - sreturn local k `k'
    = sreturn local k 0
    - exit
}

> _____ end _get_diparmopt
> s _____
    - forval k = 1/`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
    }
}
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 __000005 if __000000  [],
-
tempname eqlist
- `eqlist' = ._eqlist.new, eqopts(NOCONSTANT FREEParm) eqargopts(
> OFFset EXPosure) noneedvarlist numdepvars(0) needequal
= __000006 = ._eqlist.new, eqopts(NOCONSTANT FREEParm) eqargopts(
> OFFset EXPosure) noneedvarlist numdepvars(0) needequal
    -class {
        -instance:
            - array n_depvars
            - string needequal
            - string noneedvarlist
            - string wtypes
            - string collinear
            - string nocons
            - string nocons_ignore
            - double n_eq
            - string gl_if
            - string gl_in
            - string gl_wgt
            - string gl_options
            - _optlist eq_opts_allowed
    -class {
        -instance:
            - array options   = {}
            - array names     = {}
    -}
            - array eq_list
            - _optlist mark_opts
            - array mark_list
            - array mark_name
            - _optlist smark_opts
            - array smark_list
            - array smark_name
            - _optlist rmcoll_opts
            - array rmcoll_list
            - array rmcoll_name
            - _optlist rmdcoll_opts
            - array rmdcoll_list

```

```

        -         array      rmdcoll_name
        -}

> _____ begin _eqlist.ne
> w _____
    - version 9.2
    - ._init
    _____ begin _eqlist._ini
> t _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""
    - .gl_in = ""
    - .gl_wgt = ""
    - .gl_options = ""
    - .eq_list = {}

> _____ end _eqlist._ini
> t _____
    - ._setup `0'
    = ._setup , eqopts(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.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.Arppush "`optspec'"
= .options.Arppush "OFFSET(passthru)"
- .names.Arppush "`mname'"
= .names.Arppush "offset"


---


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


---


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


---


> _____ end _optlist.addop
> t _____
- }
- local i 0
- foreach opt of local markopts {
    .mark_opts.adopt `opt', passthru
}
- local i 0
- foreach opt of local smarkopts {
    .smark_opts.adopt `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''''
            }
        }
        else if inlist(``tok'", "if", "in", ",") {
            local ZERO ``(`ZERO')(`tok')`0''''
        }
        else if inlist(substr(```tok''',1,1), "#", "|") {
            local ZERO ```ZERO'`tok'''
        }
        else {
            local ZERO ```ZERO'`tok'''
        }
    }
    _parse expand EQ GL : ZERO, gweight common( `MARKOPTLIST' `SMA
> RKOPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
        }
- forval i = 1/`EQ_n' {
= forval i = 1/2 {
- if `i' <= `n_depvars.arrnels' {
= if 1 <= 1 {
- local ndep = `n_depvars[`i']'
= local ndep = 0
- }
- .eq_list[`i'] = .eqspec.new, numdepvars(`ndep') `needequal'
> `noneedvarlist' wtypes(`wtypes') `nocons_ignore'
= .eq_list[1] = .eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()
- class {
- instance:
-     double n_depvars
-     double needequal
-     double needvarlist

```

```

-      string wtypes
-      string name
-      string depvars
-      double hasequal
-      string indepvars
-      string other_markvars
-      double nocons
-      double nocons_ignore
-      string offset
-      double exposure
-      double freeparm
-      string if
-      string in
-      string wgt
-      string options
-}



---


> _____ begin _eqspec.ne
> w _____
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL no
> NEEDVARLIST WTYPES(string) IGNORENOCONS ]
- .n_depvars = 1
- if `:list sizeof numdepvars' {
= if 1 {
- .n_depvars = `numdepvars'
= .n_depvars = 0
- }
- .needequal = ("`needequal'" != "")
= .needequal = ("needequal" != "")
- .needvarlist = ("`needvarlist'" == "")
= .needvarlist = ("noneedvarlist" == "")
- .nocons_ignore = ("`ignorenocons'" != "")
= .nocons_ignore = ("" != "")
- .wtypes = "`wtypes'"
= .wtypes = ""



---


> _____ end _eqspec.ne
> w _____
- .eq_list['i'].parse `eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[1].parse __key(600013ba12c0):y_timing_max: y_timing_m
> ax=


---


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

```

```

- _onColonParse `0'
= _onColonParse __key(600013ba12c0):y_timing_max: y_timing_m
> ax=
_____
> _____ begin _onColonPars
> 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(600013ba12c0)"' == ":" {
    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(600013ba12c0)"'
-
- 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(600013ba12c0)
    - 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 _____
> e(passthru)"""
>     - local OPTLIST `"NOCONSTANT FREEParm OFFset(passthru) EXPosur
>     = local OPTLIST `"NOCONSTANT FREEParm OFFset(passthru) EXPosur
>     - 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 `"\`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']"""
            }
        - 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 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("=".)
      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 `"="` == "" {
        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 0 {
        ffunab INDEPVARS : `INDEPVARS'
    }
    - if inlist("noconstant", "`noconstant'", "`constant'") {
= if inlist("noconstant", "", "") {
        if "`INDEPVARS'" == "" & ! `.nocons_ignore' {
            di as err "independent variables are required when option no
> constant is specified"
            exit 102
        }
        if "`NOCONS'" != "" {
            local options `options' noconstant
        }
    }

```

```

    local NOCONS 1
}
- else local NOCONS 0
- if `"`offset` exposure'"' != "" {
= if `""' != "" {
    _check_offset, `offset' `exposure'
    local OFFSET "`s(offset)"
    local EXPOSURE = ("`exposure'" != "")"
    local OTHER `s(offset)'
}
- else local EXPOSURE 0
- local FREEPARM = `"`freeparm'"' != ""
= local FREEPARM = `""' != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if `""`OPTNAME'"'" != "" {
= if `""' != "" {
    local OPTIONS `""`OPTIONS``SPACE``OPTNAME'"'"
    local SPACE " "
}
- }
- if `""`OPTNAME'"'" != "" {
= if `""' != "" {
    local OPTIONS `""`OPTIONS``SPACE``OPTNAME'"'
    local SPACE " "
}
- }
- if `""`OPTNAME'"'" != "" {
= if `""' != "" {
    local OPTIONS `""`OPTIONS``SPACE``OPTNAME'"'
    local SPACE " "
}
- }
- if `""`OPTNAME'"'" != "" {
= if `""' != "" {
    local OPTIONS `""`OPTIONS``SPACE``OPTNAME'"'
    local SPACE " "
}
- }
- if `""`options'"'" != "" {
= if `""' != "" {
    local OPTIONS `""`OPTIONS``SPACE``options'"'
}
- .name = `""`NAME'"
= .name = `""y_timing_max""

```

```

- .depvars = `""`DEPVARSL`"""
= .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 = ("`ignorerenocons'" != "")
```

---

```

= .nocons_ignore = ("'" != "")
```

---

```

- .wtypes = "`wtypes'"
```

---

```

= .wtypes = ""
```

---

```
> _____ end _eqspec.ne
```

---

```
> w _____
```

---

```

- .eq_list['i'].parse `eq_opts_allowed.objkey':`EQ_`i''
```

---

```

= .eq_list[2].parse __key(600013ba12c0):"lnalpha":, freparm
```

---

```
> _____ begin _eqspec.pars
```

---

```
> e _____
```

---

```

- version 9.2
```

---

```

- _on_colon_parse `0'
```

---

```

= _on_colon_parse __key(600013ba12c0):"lnalpha":, freparm
```

---

```
> _____ 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(600013ba12c0)"' == ":" {
```

---

```

    sreturn local after `"`after'"'
```

---

```

    exit
```

---

```

}
```

---

```

- while `"`COLON'"' != ":" & `"`after'"' != "" {
```

---

```

= while `""'" != ":" & `":`lnalpha":, freparm'" != "" {
```

---

```

- 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(600013ba12c0)`"""
- sreturn local after `""`after"""
= sreturn local after `""`lnalpha":, freparm"""



---


> _____ end _on_colon_pars
> e _____
    - local ol `s(before)`
    = local ol __key(600013ba12c0)
    - 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 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("=") bind
- if ``DEPVARS'' == "=" {
= if "" == "=" {
    local REST : copy local anything
    local DEPVARS
}
- if (`:length local DEPVARS' == 0 & `.n_depdev') {
= 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_depdev'
> ars') {

```

```

= if 0 | (0 != 0 & 0) {
    di as err "equal sign required to separate depvars from inde
> pvars"
    exit 198
}
-
-
local DEPVARSLIST : list sizeof anything
-
if `n_deps' != 0 | `.`needvarlist' {
= if 0 != 0 | 0 {
    if `n_deps' < `.`n_depvars' {
        error 102
    }
    forval j = 1/`.`n_depvars' {
        gettoken YY anything : anything
        local DEPVARSLIST `DEPVARSLIST' `YY'
    }
    local INDEPVARS : list retok anything
}
-
local haequal 0
-
-
else {
    gettoken EQ INDEPVARS : REST, parse("=") bind
    local haequal 1
}
-
if `:list sizeof DEPVARSLIST' {
= if 0 {
    _fv_check_depvar `DEPVARSLIST'
    tsunab DEPVARSLIST : `DEPVARSLIST'
}
-
if `:list sizeof INDEPVARS' {
= if 0 {
    ffunab INDEPVARS : `INDEPVARS'
}
-
if inlist("noconstant", "`noconstant'", "`constant'") {
= if inlist("noconstant", "", "") {
    if "`INDEPVARS'" == "" & ! `.`nocons_ignore' {
        di as err "independent variables are required when option no
> constant is specified"
        exit 102
    }
    if "`NOCONS'" != "" {
        local options `options' noconstant
    }
    local NOCONS 1
}

```

```

- else local NOCONS 0
- if `"`offset` exposure`" != "" {
= if `""` != "" {
    ._check_offset, `offset` `exposure'
local OFFSET ``s(offset)`"
local EXPOSURE = ("`exposure`" != "")"
local OTHER ``s(offset)`"
}
- else local EXPOSURE 0
- local FREEPARM = `"`freeparm`" != ""
= local FREEPARM = `freeparm`" != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS` `SPACE` `OPTNAME`"
    local SPACE " "
}
- }
- if `"`OPTNAME`" != "" {
= if `"freeparm`" != "" {
    local OPTIONS ``OPTIONS` `SPACE` `OPTNAME`"
= local OPTIONS ``freeparm`"
    local SPACE " "
}
- }
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS` `SPACE` `OPTNAME`"
    local SPACE " "
}
- }
- if `"`OPTNAME`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS` `SPACE` `OPTNAME`"
    local SPACE " "
}
- }
- if `"`options`" != "" {
= if `""` != "" {
    local OPTIONS ``OPTIONS` `SPACE` `options`"
}
- .name = `"`NAME`"
= .name = `lnalpha`"
- .depvars = `"`DEPVARS`"

```

```

= .depvars = `"""
- .hasequal = `hasequal'
= .hasequal = 0
- .indepvars = `":list retok INDEPVARS"'
= .indepvars = `"""
- .other_markvars = `":list retok OTHER"'
= .other_markvars = `"""
- .nocons = `NOCONS'
= .nocons = 0
- .if = `":HOLDIF"'
= .if = `"""
- .in = `":HOLDIN"'
= .in = `"""
- .wgt = `":HOLDWGT"'
= .wgt = `"""
- .offset = `":OFFSET"'
= .offset = `"""
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 1
- .options = `":OPTIONS"'
= .options = `freeparm'



---


> _____ end _eqspec.pars
> e _____
- }
- local MARKOPTLIST `".mark_opts.dumpoptions"



---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1`options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `":optlist"'
= sreturn local optlist `"""
- class exit `":optlist"'
= class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `"""
- local MARKOPTNAMES `".mark_opts.dumpnames"

```

```
> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`names.arnels' {
    = forval i = 1/0 {
        local namelist `namelist' `names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `"`namelist```"
    = sreturn local namelist `""'
    - class exit `"`namelist```"
    = class exit `""'

> _____ end _optlist.dumpname
> s _____
    = local MARKOPTNAMES `""'
    - local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "(str
> ing asis)", all
    - local SMARKOPTLIST `"`smark_opts.dumpoptions```"

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`options.arnels' {
    = forval i = 1/0 {
        local optlist `optlist' `options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `"`optlist```"
    = sreturn local optlist `""'
    - class exit `"`optlist```"
    = class exit `""'

> _____ end _optlist.dumpoption
> s _____
    = local SMARKOPTLIST `""'
    - local SMARKOPTNAMES `"`smark_opts.dumpnames```"

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`names.arnels' {
    = forval i = 1/0 {
        local namelist `namelist' `names[`i']'
    }
```

```

    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""



---


> _____ end _optlist.dumpname
> s _____
    = local SMARKOPTNAMES `"""
    - local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)" "(s
> tring asis)", all
    - local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""



---


> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
    = local RMCOLLOPTLIST `"""
    - local RMCOLLOPTNAMES `""`.rmcoll_opts.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""



---


> _____ end _optlist.dumpname
> s _____

```

```

        = local RMCOLLOPTNAMES `"""
        - local OPTLIST2 : subinstr local 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)" "(

> 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 xvars `".eq indepvars `i''''



---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "indepvars" == "count" {
        sreturn local value `".n_eq""'

```

```

class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset 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 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item nocons
_____
> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item nocons
- if `:list sizeof item' != 1 {
= if 1 != 1 {
error 198
}
- c_local `c_item' `item'

```

```

= c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
- local value ``item``
= local value ``0``
- sreturn local value ``value``
= sreturn local value ``0``
- class exit ``value``
= class exit ``0``


---


> _____ end _eqspec.ite
> m _____
- class exit ``s(value)``
= class exit ``0``


---


> _____ end _eqlist.e
> q _____
= local noconsi ``0``
- local dim = `dim' + `:list sizeof xvars'
= local dim = + 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' `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 < 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 = 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'

```

```

> _____ begin _eqspec._check_eq_item_name
> e
>   - version 9.2
>   - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars]
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
>   - if c(rc) error 198
>   - if `:list sizeof other' {
> = if 0 {
>     local other other_markvars
>   }
>   - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther` `nocons` `offset` `exposure` `freeparm` `options'
> = local item depvars
>   - if `:list sizeof item' != 1 {
> = if 1 != 1 {
>     error 198
>   }
>   - c_local `c_item' `item'
> = c_local item depvars
> _____ end _eqspec._check_eq_item_name
> e
>   - local value ```. `item`````
> = local value `y_timing_max```
>   sreturn local value ```value`````
> = sreturn local value `y_timing_max```
>   class exit ```value`````
> = class exit `y_timing_max```
> _____ end _eqspec.item
> 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_nam
> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]

```

```

    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item indepvars
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item indepvars

```

---

```

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

```

---

```

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

```

---

```

> _____ end _eqlist.e
> q _____
    = fexpand if __000005
    - if "`r(tsops)" == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)`"""
    = local eq_rhs1 `"""
    - local eq_nocons`i' `.`eqlist'.eq nocons `i'

```

---

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "nocons" == "count" {

```

```

        sreturn local value `""'.n_eq"""
        class exit `""`s(value)"""
    }
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item nocons

```

---

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons

```

---

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
= if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
        = local item      nocons
        - if `:list sizeof item' != 1 {
= if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
= c_local item nocons

```

---

```

> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`.`item`"""
= local value `""0"""
    - sreturn local value `""`value"""
= sreturn local value `""0"""
    - class exit `""`value"""
= class exit `""0"""

```

---

```

> _____ end _eqspec.ite
> m _____

```

```

- class exit `""`s(value)`"""
= class exit `"0"""

> _____ end _eqlist.e
> q _____
= local eq_nocons1 0
- local eq_offset`i' `.`eqlist'.eq offset `i'

> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "offset" == "count" {
    sreturn local value `""`.n_eq"""
    class exit `""`s(value)`"""
}
- else if 0 < `idx' & `idx' <= `.n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item offset

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, offset

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item          offset
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}

```

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

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

> _____ end _eqlist.e
> q _____
> = local 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.item
> 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 `"(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 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 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' `freparm' `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' `freparm' `options'
    = local item nocons

```

---

```

- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_name
> e _____
- local value ``.`item'''
= local value ``0'''
- sreturn local value ```value'''
= sreturn local value ``0'''
- class exit ```value'''
= class exit ``0'''


---


> _____ end _eqspec.ite
> m _____
- class exit ```s(value)'''
= class exit ``0'''


---


> _____ end _eqlist.e
> q _____
= local eq_nocons2 0
- local eq_offset`i' ``.`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_nam
> e _____
    - local value `""`item"""
    = local value `"""
    - sreturn local value `""`value"""
    = sreturn local value `"""
    - class exit `""`value"""
    = class exit `"""

```

---

```

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

```

---

```

> _____ end _eqlist.e
> q _____
    = local eq_offset2
    - local eq_exposure`i' `.`eqlist'.eq exposure `i``

```

---

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "exposure" == "count" {

```

```

        sreturn local value `""` .n_eq"""
        class exit `""` s(value)"""
    }
- else if 0 < `idx' & `idx' <= ` .n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item exposure


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, exposure


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item exposure
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item exposure


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""` .item"""
= local value `""` 0"""
- sreturn local value `""` value"""
= sreturn local value `""` 0"""
- class exit `""` value"""
= class exit `""` 0"""


---


> _____ end _eqspec.ite
> m _____

```

```

- class exit `""`s(value)`"""
= class exit `"0"""

> _____ end _eqlist.e
> q _____
= local eq_exposure2 0
- local eq_freparm`i' `.`eqlist'.eq freparm `i'

> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "freparm" == "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 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
}

```

```

> _____ 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.eq
> 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
> rror("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 _____
    - gettok from 0 : 0, parse(",") bind
    - sret clear
    - sret local from `from'
    = sret local from __000003
    - if `"`0`"'"!="" {
    = if `", copy`"'"!="" {
        - syntax [, COPY SKIP ]
    -
    - sret local copy `copy'
    = sret local copy copy
    - sret local skip `skip'
    = sret local skip


---


> _____ end _mkvec.Fro
> m _____
    - local copy `s(copy)'
    = local copy copy
    - local skip `s(skip)'
    = local skip
    - if `copy`"'"!="" {
    = if `copy`"'"!="" {
        - CopyMat `mat` `"`error`"'" `s(from)'
    = CopyMat __000008 `"`initial vector: `"__000003


---


> _____ begin _mkvec.CopyMa
> t _____
    - args matall error
    - tempname matadd

```

```

- local i 3
- while ``i''!= "" {
= while __000003!= "" {
- capture di matrix(``i''[1,1])
= capture di matrix(__000003[1,1])
- if _rc == 0 {
- ChkMat `matadd' ``i'' ``error''
= ChkMat __000009 __000003 `"initial vector: "''


---


> _____ begin _mkvec.ChkMa
> t _____
- args matout matin error
- capture di matrix(`matin'[1,1])
= capture di matrix(__000003[1,1])
- if _rc {
capture confirm number `matin'
if _rc {
di in red ``error'matrix `matin' not found''
exit 111
}
di in red ``error'list of numbers requires copy option''
exit 198
}
- if matrix(rowsof(`matin')!=1 & colsof(`matin')!=1) {
= if matrix(rowsof(__000003)!=1 & colsof(__000003)!=1) {
di in red ``matin' " matrix(rowsof(`matin')) " x " matrix(
> colsof(`matin')) " is not a vector"
exit 503
}
- if matrix(rowsof(`matin')) == 1 {
= if matrix(rowsof(__000003)) == 1 {
- mat `matout' = `matin'
= mat __000009 = __000003
-
- else mat `matout' = `matin''
= else mat __000009 = __000003


---


> _____ end _mkvec.ChkMa
> t _____
- }
- else {
capture confirm number ``i''
if _rc {
di in red ``error'copy option requires '' "either a matrix
> or a list of numbers"
exit 198

```

```

        }
        mat `matadd' = J(1,1,``i'')
    }
- mat `matall' = nullmat(`matall') , `matadd'
= mat __000008 = nullmat(__000008) , __000009
- local i = `i' + 1
= local i = 3 + 1
-
- while ``i'''!=`` {
= while ""!=`` {
    capture di matrix(``i''[1,1])
    if _rc == 0 {
        ChkMat `matadd' ``i'' ``error'''
    }
    else {
        capture confirm number ``i''
        if _rc {
            di in red ``error'copy option requires "' "either a matrix
> or a list of numbers"
        exit 198
    }
    mat `matadd' = J(1,1,``i'')
}
mat `matall' = nullmat(`matall') , `matadd'
local i = `i' + 1
}

```

---

```

> _____ end _mkvec.CopyMa
> t _____
- if ``colname'''!=`` {
= if ``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
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(CLuster) optlist(0IM OPG Robust)
> old : , robust


---


> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before """

```

```

    - sreturn local after """
    - gettoken before after : 0, parse(":") bind match(par) quotes
    - if "`par'" != "" {
    = if "" != "" {
        local before `"(`before')"`
        }
    - if `"`before'"' == ":" {
    = if `", argoptlist(CLuster) optlist(0IM 0PG Robust) old "' ==
> ":" {
        sreturn local after `"`after'"
        exit
        }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `""' != ":" & `":", robust'"' != "" {
        - gettoken COLON after : after, parse(":") bind match(par) quo
> tes
    - if "`par'" != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
        }
    - else if `"`COLON'"' != ":" {
    = else if `":'"' != ":" {
        local before `"`before' `COLON'"
        local COLON
        }
    - }
    - while `"`COLON'"' != ":" & `"`after'"' != "" {
    = while `":'"' != ":" & `", robust'"' != "" {
        gettoken COLON after : after, parse(":") bind match(par) quo
> tes
    if "`par'" != "" {
        local before `before' (`COLON')
        local COLON
        }
    else if `"`COLON'"' != ":" {
        local before `"`before' `COLON'"
        local COLON
        }
    - if `"`COLON'"' != ":" {
    = if `":'"' != ":" {
        di as err "' found where ':' expected"
        exit 198
        }
    - sreturn local before `"`before'"

```

```

        = sreturn local before `", argoptlist(CLuster) optlist(OIM OPG
> Robust) old ""
          - sreturn local after `"\`after`"
          = sreturn local after `", robust"


---


> _____ end _on_colon_pars
> e _____
          - local 0 `"\`s(before)`"
          = local 0 `", argoptlist(CLuster) optlist(OIM OPG Robust) old `"
          - local user `"\`s(after)`"
          = local user `", robust"
          - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist
> (namelist) 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'.addopt `name'
          = .__000009.addopt OIM


---


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


---


> _____ end _optlist.addop
> t _____
          - }
          - .`o'.addopt `name'
          = .__000009.addopt OPG


---


> _____ begin _optlist.addop
> t _____

```

```

- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec`)
= local mname = lower("OPG")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arrpush "`optspec`"
= .options.Arrpush "OPG"
- .names.Arrpush "`mname`"
= .names.Arrpush "opg"


---


> _____ end _optlist.addop
> t _____
- }
- .`o'.addopt `name'
= __00009.addopt Robust


---


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


---


> _____ end _optlist.addop
> t _____
- }
- .`a' = .optlist.new
= __0000A = __optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- .`a'.addopt `name'
= __0000A.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.arnels' {
= forval i = 1/1 {
- local namelist `namelist' `names[`i']'
= local namelist cluster
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist```'
= sreturn local namelist `"`cluster```'
- class exit `"`namelist```'
= class exit `"`cluster```'



---


> _____ end _optlist.dumpname
> s _____
= local ARGOPTNAMES `"`cluster```'
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
    di as err "vcetype `:word 1 of `AND```' specified twice"
    exit 198
}
- local pswallowed : list uniq pswallowed
- local pwlist robust cluster
- foreach n of local pswallowed {
    local lc = lower(`n``')
    local pwlist `pwlist' `lc'
}
- if "`old_is_ok```' != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
}
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
}
}
- local 0 `"`user```'
= local 0 `", robust``'
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varnam
> e) ]
- if `"`vce```' != "" {
= if `""' != "" {

```

```

gettoken name args : vce, parse(" ,")
local args : list retok args
capture ParseVCE `o' `a' , `name'
if c(rc) {
di as err "vcetype {bf:`name'} not allowed"
exit 198
}
local name `r(vce)'
if "`weight'" == "pweight" & !`:list name in pwlist' {
di as err "pweights are not allowed with vce(`name')"
exit 198
}
return add
if `""`robust"" != "" & !inlist(`name","",,"robust","eim","oi
> m","cluster") {
opts_exclusive "`robust' vce(`name')"
}
if `name'" == "cluster" {
if `args'" == "" {
di as err "invalid vce(cluster) option"
exit 198
}
confirm var `args'
unab args : `args'
local markout `args'
if `cluster'" != "" {
if !`:list args == cluster' {
di as err "options cluster() and vce(cluster) are in conflict"
exit 100
}
}
}
else if `cluster'" != "" & !inlist(`name","",,"eim","oim") {
opts_exclusive "cluster() vce(`name')"
}
if `args'" != "" {
if ! `:list name in ARGOPTNAMES' {
di as err "invalid vce() option"
exit 198
}
if `name'" == "hc2" {
confirm var `args'
unab args : `args'
local markout `args'
}
return local vceargs `":list retok args"'

```



```

        }
    }



---


> _____ 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 $ML_dim
        local scores "`$scores'"
    }
    - _parse_iterlog, `nolog' `log'
    = _parse_iterlog,


---


> _____ begin _parse_iterlo
> g _____
    - version 16

```

```

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

```

---

```

> _____ end _parse_iterlo
> g _____
    - local log "`s(nolog)"
    = local log ""
    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `'
> coefdiffs'
    = local tropts
    - if "`tropts'" != "nolog" {
    = if "" != "nolog" {
        local tropts `tropts' `gradient' `hessian'
    = local tropts
        - if "`skipline'" == "" {
    = if "" == "" {
        - if "`iterate'" != "0" | `:length local tropts' {
    = if "" != "0" | 0 {
        - di

```

```

    - }
    - }
    - }
    - else {
        local gradient
        local hessian
        local nolog nolog
    }
    - if "`search'" != "off" & "`iterate'" != "0" {
    = if "off" != "off" & "" != "0" {
        if "`search'" == "quietly" {
            local sopts nolog

```

```

        }
    else {
        if `:length local tropts' {
            if "`tropts'" != "nolog" {
                local sopts trace
            }
            else local sopts nolog
        }
    }
    if "`search'" == "norescale" {
        local sopts `sopts' norescale
    }
    Search `bounds', nopreserve `sopts' `repeat' `maxmin'
}
- tempname value b V iV
- `vv' mata: Mopt_maxmin()
= version 18: mata: Mopt_maxmin()

```

---

```

> _____ begin nbreg_l
> f _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempname lnalpha m
      - mleval `xb' = `b', eq(1)
      = mleval __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 {
          mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
      - else {
          - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
          = mlsu __00000K = lngamma(__00000S+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 }
      - tempname 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 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 __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 {
    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 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 {
        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 __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 __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 __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+__0000S) - trigamma(__0000S))) + __0000U*__0000V*(__0000W*__0000V*(
> y_timing_max-__0000U)- 1), eq(2)

```

```

    - }
    - matrix `H' = (`d11',`d12' \ `d12'',`d22')
    = matrix __00000M = (__00000X,__00000Y \ __00000Y,__00000Z)


---


> _____ 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 __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 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsu __00000K = lngamma(__00000S+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 {
    mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsu __00000K = lngamma(__00000S+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 tempfile g1 g2
    = * tempfile g1 g2
    - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
    = * mlvecsum __00000K = __00000N, eq(1)
    - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
    = * mlvecsum __00000K = __000000, eq(2)
    - $ML_ec matrix `g' = (`g1','g2')
    = * matrix __00000L = (,)
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __00000K==. { exit }
    - tempfile alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __00000W = exp(__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        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 __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' \ `d21','`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 {
    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'))
      = 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 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 lalpha 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 __0000
> 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 = __00000, eq(2)
    - $ML_ec matrix `g' = (`g1',`g2')
    = * matrix __00000L = (,)
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __00000K==. { exit }
    - tempname alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __00000W = exp(__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlmatsum `lnf' `d11' = `mu', eq(1)
        mlmatsum `lnf' `d12' = 0, eq(1,2)
        mlmatsum `lnf' `d22' = 0, eq(2)
    }
    - else {
    - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __00000K __00000X = __00000U*__00000V*(__00000W*__0
> 0000V*(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+__0000S) - ln(__0000V) - __0000S*(trigamma(y_timing_m
> ax+__0000S) - trigamma(__0000S)) + __0000U*__00000V*(__00000W*__00000V*(
> y_timing_max-__0000U)- 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 __0000S = __00005
    - }
        - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname(`de
> pvar') buildfvinfo
        = ereturn post __0000Q __0000R [], esample(__0000S) 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_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 __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'+`lnalpha')) - `y'*ln1p(exp(-`z'-`lnalpha')) `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 {
        tempfile b0
        mat `b0' = (0)
        if _caller() < 15 {
        mat colnames `b0' = ln`parm':_cons
        }
        else {
        mat colnames `b0' = /ln`parm'
        }
        mat `bp' = (`bp','`b0')
        local initopt "init(`bp')"
    }
    - `nohead' di in gr _n "Fitting full model:"
    = di in gr _n "Fitting full model:"

```

```

Fitting full model:
- }
- else local initopt `"init(`from')"
= else local initopt `"init()"
- `vv' ml model `mm' `prog' (`yname': `y'=`xvars', `constan' `offopt') /
> ln`parm' if `touse' [`weight``exp'], collinear missing max nooutput nopreser
> ve `initopt' search(off) `mlopts' `scopt' `robust' `vce' `continu' title(`ti
> tle') diparm(ln`parm', exp label(``parm'')) `negh' `moptobj'
= version 18: ml model e2 nbreg_lf (y_timing_max: y_timing_max=cb_author
> s_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx, )
> /lnalpha if __000000 [], collinear missing max nooutput nopreserve init(__00
> 0002) search(off) robust vce(robust) continue title(Negative binomial regr
> ession) diparm(lnalpha, exp label("alpha")) negh
_____
> _____ begin m
> l _____
- if _caller()>=11 {
- mopt `0'
= mopt model e2 nbreg_lf (y_timing_max: y_timing_max=cb_authors_ext es
> timated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx, ) /lnalpha
> if __000000 [], collinear missing max nooutput nopreserve init(__000002) se
> arch(off) robust vce(robust) continue title(Negative binomial regression)
> diparm(lnalpha, exp label("alpha")) negh
_____
> _____ begin mop
> t _____
- local vv : di "version " string(_caller()) ":""
- version 12
- 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq op
> en wg_ndx, ) /lnalpha if __000000 [], collinear missing max nooutput nopres
> erve init(__000002) search(off) robust vce(robust) continue title(Negative
> binomial regression) diparm(lnalpha, exp label("alpha")) negh


---


> l _____ begin mopt.Mode
> l _____
  - local version = string(_caller())
  - local vv : di "version `version':"
  = local vv : di "version 18:"
  - version 12
  - syntax anything(id="model" name=spec) [if] [in] [fw aw pw iw] [
> BRACKET COLLinear MISSING CONTINUE lf0(string) INIT(string) CONSTraints(str
> ing) NOCNSNOTES VCE(passthru) NEGH NOPREserve TECHnique(string) ITERID(strin
> g) CRITtype(string) OBS(numlist max=1 >0) TITle(string) WALDtest(integer -1)
> SVY SUBpop(string) SRSsubpop noSVYadjust SCORE(passthru) noOUTput noSCVARS
> GROUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIVSC
> ALE(string) DERIV(string) nrderiv GNWMATrix(string) KAUxiliary(numlist int >
> =0) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru) m
> optobj(string) USEVIEWS *
  - if ```moptobj'''' == "" {
  = if ``'''' == "" {
    - Clear


---


> r _____ 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 `"
> _____ 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 `"
> _____ end _on_colon_pars
> e _____
- if !c(rc) {

```

```

local single 0
local diparm `"$`s(before)`$"
local after `"$`s(after)`$"
}
- capture
- SpliceGlobals diparm , diparm(`diparm') `syntaxonly` `goptions
> '
= SpliceGlobals diparm , diparm(lnalpha, exp label("alpha")) syn
> taxonly


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
- syntax name(id="macro name" name=c_diparm) [, diparm(string
> asis) Level(cilevel) dof(passthru) syntaxonly ]
- if `"$`dof`$" == "" & `"$`e(df_r)`$" != "" {
= if `""` == "" & `""` != "" {
capture confirm integer number `e(df_r)'
if !c(rc) {
local gdof dof(`e(df_r)')
}
capture
}
- else local gdof `"$`dof`$"
= else local gdof `""`
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (`"$`diparm`$" == "") exit
= if (`"$lnalpha, exp label("alpha")`$" == "") exit
- local 0 `diparm'
= local 0 lnalpha, exp label("alpha")
- syntax anything(id="eqname(s)" name=eqspecs) [, Level(passth
> ru) dof(passthru) * ]
- if (`"$`eqspecs`$" == "__sep__") exit
= if (`"$lnalpha`$" == "__sep__") exit
- if `"$`level`$" == "" {
= if `""` == "" {
- local lopt level(`glevel')
= local lopt level(95)
}
- else local lopt `level'
= else local lopt
- if `"$`dof`$" == "" {
= if `""` == "" {
- local dof `"$`gdof`$"

```

```

= local dof `"""
- }
- if "`syntaxonly'" == "" {
= if "syntaxonly" == "" {
    c_local `c_diparm` ``eqspecs', `options' `lopt' `dof"""
    }
- else {
- c_local `c_diparm` ``diparm"""
= c_local diparm `lnalpha, exp label("alpha")"""
- }



---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local diparm`k` ``diparm"""
= local diparm1 `lnalpha, exp label("alpha")"""
- local diparmopts ``diparmopts' : `diparm"""
= local diparmopts `": lnalpha, exp label("alpha")"""
- if `single' | `":list retok after""' == "" {
= if 1 | `""' == "" {
- local 0 `", `options"""
= local 0 `", search(off)"""
- syntax [, diparm(string asis) * ]
- }
- else {
    local diparm `":after"""
    }
- }
- while `":diparm""' != "" {
= while `""' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm `":s(before)"""
        local after `":s(after)"""
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `options
> '
    local diparm`k` ``diparm"""
    local diparmopts ``diparmopts' : `diparm"""
    if `single' | `":list retok after""' == "" {
        local 0 `", `options"""
        syntax [, diparm(string asis) * ]

```

```

        }
        else {
            local diparm `""`after"""
        }
    }
- if `""`soptions"" == "" {
= if `""`soptions"" == "" {
    syntax [, diparm(string asis) ]
}
- if (`execute"" == "") {
= if (" == "") {
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `""`search(off)""
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `": lalpha, exp label("alpha")"""
- forval i = 1/`k' {
= forval i = 1/1 {
- sreturn local diparm`i' `""`diparm`i"""
= sreturn local diparm1 `": lalpha, exp label("alpha")"""
- }
- sreturn local k `k'
= sreturn local k 1
- exit

```

---

```

> _____ end _get_diparmopt
> s _____
- forval k = 1/`s(k)' {
= forval k = 1/1 {
- local diparm`k' `""`s(diparm`k')"""
= local diparm1 `": lalpha, 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 122 {
- 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  '),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=cb_authors_ext esti

```

```

> mated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  )")
  - if bsubstr(`p2'',1,1) == "," {
  = if bsubstr("y_timing_max: y_timing_max=cb_authors_ext estimated
> stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  ),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 stky_p
> r_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx,  )" == "(" {
      local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
      }
      -
      -
      - while `:length local eqspec' {
      = while 9 {
      - local ++ieq
      - gettoken eq eqspec : eqspec, bind
      - if bsubstr(trim(`eq'),1,1) == "/" {
      = if bsubstr(trim("/lnalpha"),1,1) == "/" {
      - local eq = bsubstr(trim(`eq'),2,.)
      = local eq = bsubstr(trim("/lnalpha"),2,.)
      - local spec : subinstr local spec "/`eq'`"("`eq`":`fparm')", w
> ord
      = local spec : subinstr local spec "/lnalpha" `"(lnalpha":, freep
> arm)", word
      -
      - else {
          gettoken p1 p2 : eq, parse("(")
          local p2 = trim(`p2''')
          if bsubstr(`p2'',1,1) == "," {
          gettoken comma p2 : p2, parse(",")
          local p2 = trim(`p2''')
          }
          if ```p1``p2''' == "()" {
          local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
          }
          }
      -
      - while `:length local eqspec' {
      = while 0 {
          local ++ieq
          gettoken eq eqspec : eqspec, bind
          if bsubstr(trim(`eq'),1,1) == "/" {
          local eq = bsubstr(trim(`eq'),2,.)
          local spec : subinstr local spec "/`eq'`"("`eq`":`fparm')", w

```

```

> ord
}
else {
gettken p1 p2 : eq, parse("()")
local p2 = trim(``p2```)
if bsubstr(`p2`,1,1) == "," {
gettken comma p2 : p2, parse(",")
local p2 = trim(``p2```)
}
if ``p1``p2`` == "()" {
local spec : subinstr local spec ``eq`` "(eq`ieq':)", word
}
}
}
-
if `interactive' {
if 0 {
SetGlobalVar ML_sample : _MLtua
}
-
else {
-
global ML_sample : tempvar
-
if ``moptobj`` != "" {
if `""` != "" {
global ML_sample `moptobj'$ML_sample
}
-
}
-
if ``moptobj`` != "" {
if `""` != "" {
cap drop $ML_sample
}
-
`vv' mark $ML_sample `if' `in' [`weight``exp'], `zeroweight'
version 18: mark __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_depvars
-
string needequal
-
string noneedvarlist
-
string wtypes
-
string collinear
-
string nocons
-
string nocons_ignore
-
double n_eq

```

```

-
-      string          gl_if
-      string          gl_in
-      string          gl_wgt
-      string          gl_options
-      _optlist        eq_opts_allowed
-class {
-instance:
-      array options   = {}
-      array names     = {}
-}
-
-      array          eq_list
-      _optlist       mark_opts
-      array          mark_list
-      array          mark_name
-      _optlist       smark_opts
-      array          smark_list
-      array          smark_name
-      _optlist       rmcoll_opts
-      array          rmcoll_list
-      array          rmcoll_name
-      _optlist       rmdcoll_opts
-      array          rmdcoll_list
-      array          rmdcoll_name
-}



---


> _____ begin _eqlist.ne
> w _____
- version 9.2
- ._init


---


> _____ begin _eqlist._ini
> t _____
- version 9.2
- .n_eq = 0
- .gl_if = ""
- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}


---


> _____ end _eqlist._ini
> t _____
- ._setup `0'
= ._setup , eqopts(NOCNSTant FREEParm) eqargopts(OFFset EXPosur
> e) noneedvarlist numdepvars(0) needequal

```

---

```
> _____ begin _eqlist._setu
> p _____
    - version 9.2
    - .mark_list = {}
    - .mark_name = {}
    - .mark_opts.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
_____
> _____ end _optlist.rese
> t _____
    - .smark_list = {}
    - .smark_name = {}
    - .smark_opts.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
_____
> _____ end _optlist.rese
> t _____
    - .rmcoll_list = {}
    - .rmcoll_name = {}
    - .rmcoll_opts.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
_____
> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset
_____
> _____ begin _optlist.rese
> t _____
    - version 9
```

```

- .options = {}
- .names = {}

> _____ end _optlist.rese
> t _____
- syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVARLIST
> COMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLopts(n
> amelist) RMDCOLLopts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL WTY
> PES(string) IGNORENOCONS ]
- .eq_opts_allowed.reset

> _____ begin _optlist.rese
> t _____
- version 9
- .options = {}
- .names = {}

> _____ end _optlist.rese
> t _____
- foreach opt of local eqopts {
- .eq_opts_allowed.adopt `opt'
= .eq_opts_allowed.adopt NOCONSTant

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

> _____ end _optlist.addop
> t _____
- }
- .eq_opts_allowed.adopt `opt'
= .eq_opts_allowed.adopt FREEParm

> _____ begin _optlist.addop
> t _____

```

```

- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower(`optspec`)
= local mname = lower("FREEParm")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
}
- .options.Arppush "`optspec'"
= .options.Arppush "FREEParm"
- .names.Arppush "`mname'"
= .names.Arppush "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.Arppush "`optspec'"
= .options.Arppush "OFFSET(passthru)"
    - .names.Arppush "`mname'"
= .names.Arppush "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.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_depdevs.Arrdropall
- if "`numdevs'" != "" {
= if "0" != "" {
- foreach ndep of local numdeps {
- .n_depdevs.Arrpush `ndep'
= .n_depdevs.Arrpush 0
- }
- }
- else .n_depdevs.Arrpush 1
- .needequal = "`needequal'"
= .needequal = "needequal"
- .wtypes = "`wtypes'"
= .wtypes = ""
- .noneedvarlist = "`needvarlist'"
= .noneedvarlist = "noneedvarlist"

```

```

    - .nocons_ignore = ``ignorerenocons''
    = .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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx, ) ("lnalpha"
> :, freeparm)
> _____ begin _eqlist.pars
> e _____
    - version 9.2
    - ._init
> _____ begin _eqlist._ini
> t _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""
    - .gl_in = ""
    - .gl_wgt = ""
    - .gl_options = ""
    - .eq_list = {}

> _____ end _eqlist._ini
> t _____
    - local MARKOPTLIST ```.mark_opts.dumpoptions"""
> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist ````optlist"""
    = sreturn local optlist `"""
    - class exit ````optlist"""
    = class exit `"""

> _____ end _optlist.dumpoption

```

```

> s _____
= local MARKOPTLIST `"""
- local SMARKOPTLIST `""`.smark_opts.dumpoptions"""
_____
> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""
_____
> _____ end _optlist.dumpoption
> s _____
= local SMARKOPTLIST `"""
- local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""
_____
> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""
_____
> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""
_____
> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/.options.arrnels {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}

```

```

        }
        - local optlist : list uniq optlist
        - sreturn local optlist `"\`optlist\""
        = sreturn local optlist `"""
        - class exit `"\`optlist\""
        = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local RMDCOLLOPTLIST `"""
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARKO
> PTLIST' `RMDCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
= _parse expand EQ GL : 0, gweight common(      COLlinear )
- if `EQ_n' == 0 & "`noneedvarlist" == "" {
= if 2 == 0 & "noneedvarlist" == "" {
    syntax varlist
}
- local rebind = `EQ_n' == 1
= local rebind = 2 == 1
- if `rebind' {
= if 0 {
    tokenize `"\`0\"", parse(",(),[])")
    local rebind = `"\`1\"" != "(" & `"\`2\"" == "("
}
- if `rebind' {
= if 0 {
    while `:length local 0' {
        gettoken tok 0 : 0, parse(" ,") bind match(par)
        if "`par'" == "(" {
            gettoken nxt : 0
            local nxt = substr(`"\`nxt\"", 1, 1)
            if inlist(`"\`nxt\"", "#", "|") {
                local ZERO `"\`ZERO' (`tok')\""
            }
            else {
                local ZERO `"\`(`ZERO') (`tok') `0\""
                local 0
            }
        }
        else if inlist(`"\`tok'", "if", "in", ",") {
            local ZERO `"\`(`ZERO') `tok' `0\""
            local 0
        }
        else if inlist(substr(`"\`tok'", 1, 1), "#", "|") {
            local ZERO `"\`ZERO`tok\""
        }
    }
}

```

```

        else {
            local ZERO `""`ZERO' `tok"""
        }
    }
    _parse expand EQ GL : ZERO, gweight common( `MARKOPTLIST` `SMA
> RKOPTLIST` `RMCOLLOPTLIST` `RMDCOLLOPTLIST` COLlinear )
}
- forval i = 1/`EQ_n' {
= forval i = 1/2 {
- if `i' <= `n_depvars.arrnels' {
= if 1 <= 1 {
- local ndep = `n_depvars[`i']'
= local ndep = 0
- }
- .eq_list[`i'] = ._eqspec.new, numdepvars(`ndep') `needequal'
> `.noneedvarlist' wtypes(`wtypes') `nocons_ignore'
= .eq_list[1] = ._eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()
    -class {
        -instance:
        -      double n_depvars
        -      double needequal
        -      double needvarlist
        -      string wtypes
        -      string name
        -      string depvars
        -      double hasequal
        -      string indepvars
        -      string other_markvars
        -      double nocons
        -      double nocons_ignore
        -      string offset
        -      double exposure
        -      double freeparm
        -      string if
        -      string in
        -      string wgt
        -      string options
    -}

```

---

```

> _____ begin _eqspec.ne
> w _____
    - version 9.2
    - syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL no
> NEEDVARLIST WTYPES(string) IGNORENOCONS ]
    - .n_depvars = 1

```

```

- if `:list sizeof numdepvars' {
= if 1 {
- .n_depvars = `numdepvars'
= .n_depvars = 0
- }
- .needequal = ("`needequal'" != "")
= .needequal = ("needequal" != "")
- .needvarlist = ("`needvarlist'" == "")
= .needvarlist = ("noneedvarlist" == "")
- .nocons_ignore = ("`ignorenocons'" != "")
= .nocons_ignore = ("" != "")
- .wtypes = "`wtypes'"
= .wtypes = ""

> _____ end _eqspec.ne
> w _____
- .eq_list['i'].parse `.eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[1].parse __key(600013bac580):y_timing_max: y_timing_m
> ax=cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open
> wg_ndx

> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(600013bac580):y_timing_max: y_timing_m
> ax=cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open
> wg_ndx

> _____ 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(600013bac580)"' == ":" {
    sreturn local after `"`after'"'
    exit
}
- while `"`COLON'"' != ":" & `"`after'"' != "" {

```

```

= while `""' != ":" & `":y_timing_max: y_timing_max=cb_autho
> rs_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx" ! !
> = "" {
    - 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx" ! !
> = "" {
    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(600013bac580)"'
- sreturn local after `"`after`"'
= sreturn local after `":y_timing_max: y_timing_max=cb_author
> s_ext estimated stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx"'



---


> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013bac580)

```

```

- if `:list sizeof ol' {
= if 1 {
- local OPTLIST `""`.'ol'.dumpoptions"""


---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/4 {
- local optlist `optlist' `.`options[`i']'
= local optlist NOCONSTant
- }
- local optlist `optlist' `.`options[`i']'
= local optlist NOCONSTant FREEParm
- }
- local optlist `optlist' `.`options[`i']'
= local optlist NOCONSTant FREEParm OFFset(passthru)
- }
- local optlist `optlist' `.`options[`i']'
= local optlist NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)
- }
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"NOCONSTant FREEParm OFFset(passthru"
> u) EXPosure(passthru)"
- class exit `""`optlist"""
= class exit `"NOCONSTant FREEParm OFFset(passthru) EXPosure
> (passthru)"



---


> _____ end _optlist.dumpoption
> s _____
= local OPTLIST `"NOCONSTant FREEParm OFFset(passthru) EXPosur
> e(passthru)"
- local OPTNAMES `""`.'ol'.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`.names.arrnels' {
= forval i = 1/4 {
- local namelist `namelist' `.`names[`i']'
= local namelist noconstant
- }
- local namelist `namelist' `.`names[`i']'
= local namelist noconstant freeparm

```

```

    - }
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq open wg_ndx``
    - 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 stky_pr_rotemberg wlth stky_p
> r_calvo ln_neq open wg_ndx'' == "" {
    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' {
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 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 {
    - ffunab INDEPVARS : `INDEPVARS'
        = ffunab INDEPVARS : cb_authors_ext estimated stky_pr_rotember
> g wlth stky_pr_calvo ln_neq open wg_ndx



---


> _____ begin ffunab
> b _____
    - version 11
    - _onColon_parse `0'
    = _onColon_parse INDEPVARS : cb_authors_ext estimated stky_
> pr_rotember wlth stky_pr_calvo ln_neq open wg_ndx



---


> _____ begin _onColon_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 stky_pr
> _rotemberg wlth stky_pr_calvo ln_neq open wg_ndx" != "" {
    - 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 stky_pr
> _rotemberg wlth stky_pr_calvo ln_neq open wg_ndx" != "" {
    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 stky_pr_
> rotemberg wlth stky_pr_calvo ln_neq open wg_ndx"

```

---

```

> _____ 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 stky_pr_rotemberg wlth
> stky_pr_calvo ln_neq open wg_ndx"
        - 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 stky_pr_rotembe
> rg wlth stky_pr_calvo ln_neq open wg_ndx
        - 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 = ```DEPVAR```
= .depvars = `y_timing_max`
-
.hasequal = `hasequal'
= .hasequal = 1
-
.indepvars = ```:list retok INDEPVARS``
= .indepvars = `cb_authors_ext estimated stky_pr_rotemberg wl
> th stky_pr_calvo ln_neq open wg_ndx``
-
.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(600013bac580):"lnalpha":, freeparm

> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(600013bac580):"lnalpha":, freeparm

```

---

```

> _____ begin _on_colon_pars
> e _____
  - version 8.2
  - sreturn local before ""
  - sreturn local after ""
  - gettoken before after : 0, parse(":") bind match(par) quot
> es
  - if ``par'' != "" {
= if "" != "" {
    local before `"(`before')``"
}
  - if ```before'' == ":" {
= if `"_key(600013bac580)"' == ":" {
    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(600013bac580)`"
- sreturn local after `"`after`"""
= sreturn local after `""lnalpha":, freparm`"

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)`
    = local ol __key(600013bac580)
    - if `:list sizeof ol' {
    = if 1 {
        - local OPTLIST ```.`ol'.dumpoptions`"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/4 {
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant
        - }
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant FREEParm
        - }
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant FREEParm OFFset(passthru)
        - }
        - local optlist `optlist' `.`options[`i']'
        = local optlist NOCONSTant FREEParm OFFset(passthru) EXPosur
    > e(passthru)
        - }
        - local optlist : list uniq optlist
        - sreturn local optlist `"`optlist`"""
        = sreturn local optlist `"NOCONSTant FREEParm OFFset(passthru`"
    > u) EXPosure(passthru)"
        - class exit `"`optlist`"""
        = class exit `"NOCONSTant FREEParm OFFset(passthru) EXPosure
    > (passthru)"

> _____ end _optlist.dumpoption
> s _____
    = local OPTLIST `"NOCONSTant FREEParm OFFset(passthru) EXPosur

```

```

> e(passthru)'''
      - local OPTNAMES `""'.`ol'.dumpnames''''


---


> _____ begin _optlist.dumpname
> s _____
      - version 9
      - forval i = 1/`.names.arrnels' {
      = forval i = 1/4 {
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freparm
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freparm offset
      - }
      - local namelist `namelist' `.names[`i']'
      = local namelist noconstant freparm offset exposure
      - }
      - local namelist : list uniq namelist
      - sreturn local namelist `""`namelist"""
      = sreturn local namelist `""noconstant freparm offset exposu
> re"""
      - class exit `""`namelist"""
      = class exit `""noconstant freparm offset exposure"""



---


> _____ end _optlist.dumpname
> s _____
      = local OPTNAMES `""noconstant freparm offset exposure"""
      - local NOCONS constant noconstant
      - if `""`:list NOCONS & OPTNAMES"""" == "" {
      = if `""noconstant"" == "" {
          local NOCONS noCONSTant
          }
      - else local NOCONS
          }
      - local 0 `""`s(after)"""
      = local 0 `""lnalpha":, freparm"""
      - if `""`.wtypes"" != "" {
      = if `"""" != "" {
          local wgt "[`wtypes']"
          }
      - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NO
> ONS' *]
      = syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREEParm

```

```

> OFFset(passthru) EXposure(passthru)  */
    - local HOLDIF `""`if"""
    = local HOLDIF `"""
    - local HOLDIN `""`in"""
    = local HOLDIN `"""
    - if "`wgt'" != "" & "`weight'" != "" {
    = if "" != "" & "" != "" {
        local HOLDWGT `"[`weight'`exp']"""
        }
    - gettoken NAME REST : anything, parse(":")
    - if trim(`NAME') == ":" {
    = if trim("lnalpha") == ":" {
        di as err "nothing found where equation name expected"
        exit 198
        }
    - if `:list sizeof REST' {
    = if 1 {
    - if strpos(`NAME', ":") {
    = if strpos(`lnalpha', ":") {
        capture _msparse `NAME'
        if c(rc) {
            di as err "{bf:`NAME'} invalid equation specification"
            exit 198
            }
        }
    - else {
    - ._confirm_eqname `NAME'
    = ._confirm_eqname lnalpha

```

---

```

> _____ begin _eqspec._confirm_eqnam
> e _____
    - version 9.2
    - capture confirm number `0'
    = capture confirm number lnalpha
    - if (! c(rc)) exit
    - local hasdot = strpos(`0', ".")
    = local hasdot = strpos(`lnalpha', ".")
    - if `hasdot' {
    = if 0 {
        syntax varname(ts)
        exit
        }
    - capture syntax name(id="equation name")
    - if (! c(rc)) exit

```

---

```
> _____ end _eqspec._confirm_eqnam
```

```

> e -----
    - }
    - local NAME : list retok NAME
    - gettoken COLON anything : REST, parse(":")
    - }
    - else {
        local NAME
    }
    - gettoken DEPVARS REST : anything, parse("=".)
    - if "`DEPVARS'" == "=" {
    = if "" == "=" {
        local REST : copy local anything
        local DEPVARS
    }
    - if `:length local DEPVARS' == 0 & `.n_depvars' ) {
    = if (0 == 0 & 0) {
        di as err "nothing found where depvar expected"
        exit 198
    }
    - if `"`REST`"' == "" {
    = if `""` == "" {
    - if 0` .needequal' {
    = if 01 {
    - if ` .needvarlist' | `:length local DEPVARS' != 0 & ` .n_depvs'
> ars') {
    = if 0 | (0 != 0 & 0) {
        di as err "equal sign required to separate depvars from inde
> pvars"
    exit 198
}
- }
- local DEPVARS
- local n_deps : list sizeof anything
- if `n_deps' != 0 | ` .needvarlist' {
= if 0 != 0 | 0 {
    if `n_deps' < ` .n_depvars' {
        error 102
    }
    forval j = 1/` .n_depvars' {
        gettoken YY anything : anything
        local DEPVARS `DEPVARS' `YY'
    }
    local INDEPVARS : list retok anything
}
- loca hasequal 0
- }

```

```

- else {
    gettoken EQ INDEPVARS : REST, parse("=") bind
    local hasequal 1
}
- if `:list sizeof DEPVARs' {
= if 0 {
    _fv_check_depvar `DEPVARs'
    tsunab DEPVARs : `DEPVARs'
}
- if `:list sizeof INDEPVARS' {
= if 0 {
    ffunab INDEPVARS : `INDEPVARS'
}
- if inlist("noconstant", "`noconstant'", "`constant') {
= if inlist("noconstant", "", "") {
    if "`INDEPVARS'" == "" & ! `nocons_ignore' {
        di as err "independent variables are required when option no
> constant is specified"
        exit 102
    }
    if "`NOCONS'" != "" {
        local options `options' noconstant
    }
    local NOCONS 1
}
- else local NOCONS 0
- if `"`offset`exposure'"' != "" {
= if `""' != "" {
    .check_offset, `offset' `exposure'
    local OFFSET "`s(offset)"
    local EXPOSURE = ("`exposure'" != "")"
    local OTHER `s(offset)"
}
- else local EXPOSURE 0
- local FREEPARM = `"`freeparm'"' != ""
= local FREEPARM = `freeparm'"' != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if ```OPTNAME'''' != "" {
= if `""' != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ```OPTNAME'''' != "" {

```

```

= if `"$freeparm" != "" {
- local OPTIONS ``OPTIONS``SPACE``OPTNAME"""
= local OPTIONS `"$freeparm"
- local SPACE " "
- }
- }
- if `"$`OPTNAME`" != "" {
= if `""` != "" {
  local OPTIONS ``OPTIONS``SPACE``OPTNAME"""
  local SPACE " "
}
- }
- if `"$`OPTNAME`" != "" {
= if `""` != "" {
  local OPTIONS ``OPTIONS``SPACE``OPTNAME"""
  local SPACE " "
}
- }
- if `"$`options`" != "" {
= if `""` != "" {
  local OPTIONS ``OPTIONS``SPACE`options"""
}
- .name = `"$`NAME`"
= .name = `"$lnalpha"
- .depvars = `"$`DEPVARS`"
= .depvars = `"""
- .hasequal = `hasequal'
= .hasequal = 0
- .indepvars = `"$`list retok INDEPVARS`"
= .indepvars = `"""
- .other_markvars = `"$`list retok OTHER`"
= .other_markvars = `"""
- .nocons = `NOCONS'
= .nocons = 0
- .if = `"$`HOLDIF`"
= .if = `"""
- .in = `"$`HOLDIN`"
= .in = `"""
- .wgt = `"$`HOLDWGT`"
= .wgt = `"""
- .offset = `"$`OFFSET`"
= .offset = `"""
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 1

```

```

- .options = `"`OPTIONS`"`
= .options = `"`freparm`"`

> _____ end _eqspec.pars
> e _____
- }
- local MARKOPTLIST `"`mark_opts.dumpoptions`"`

> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/0 {
    local optlist `optlist' `.`options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `"`optlist`"`
= sreturn local optlist `""`"
- class exit `"`optlist`"`
= class exit `""`"

> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""`"
- local MARKOPTNAMES `"`mark_opts.dumpnames`"`

> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`.names.arrnels' {
= forval i = 1/0 {
    local namelist `namelist' `.`names[`i']'
}
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist`"`
= sreturn local namelist `""`"
- class exit `"`namelist`"`
= class exit `""`"

> _____ end _optlist.dumpname
> s _____
= local MARKOPTNAMES `""`"
- local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "(str
> ing asis)", all
- local SMARKOPTLIST `"`smark_opts.dumpoptions`"`

```

```

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""

_____ end _optlist.dumpoption
> s _____
    = local SMARKOPTLIST `"""
    - local SMARKOPTNAMES `""`smark_opts.dumpnames"""

_____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.`names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""

_____ end _optlist.dumpname
> s _____
    = local SMARKOPTNAMES `"""
    - local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)" "(s
> tring asis)", all
    - local RMCOLLOPTLIST `""`rmcoll_opts.dumpoptions"""

_____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.`options[`i']'
    }
    - local optlist : list uniq optlist

```

```

    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMCOLLOPTNAMES `""`.rmcoll_opts.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`.names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' `.names[`i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"""
    - class exit `""`namelist"""
    = class exit `"""



---


> _____ end _optlist.dumpname
> s _____
= local RMCOLLOPTNAMES `"""
- local OPTLIST2 : subinstr local RMCOLLOPTLIST "(passthru)" "(s
> tring asis)", all
    - local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""



---


> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/0 {
        local optlist `optlist' `.options[`i']'
    }
    - local optlist : list uniq optlist
    - sreturn local optlist `""`optlist"""
    = sreturn local optlist `"""
    - class exit `""`optlist"""
    = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
= local RMDCOLLOPTLIST `"""

```

```

- local RMDCOLLOPTNAMES `"\` .rmdcoll_opts.dumpnames"""


---


> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/\` .names.arrnels' {
    = forval i = 1/0 {
        local namelist `namelist' \` .names[`i']
    }
    - local namelist : list uniq namelist
    - sreturn local namelist `"\` namelist"""
    = sreturn local namelist `"""
    - class exit `"\` namelist"""
    = class exit `"""


---


> _____ end _optlist.dumpname
> s _____
    = local RMDCOLLOPTNAMES `"""
    - local OPTLIST3 : subinstr local RMDCOLLOPTLIST "(passthru)" "(
> string asis)", all
        - local 0 `", `GL_op"""
        = local 0 `", ""
        - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLline
> ar noCONSTANT *
        = syntax [,      COLlinear noCONSTANT * ]
        - local GL_op `"\` options"""
        = local GL_op `"""
        - if `"\` collinear"" != "" {
        = if `"""! != "" {
            local GL_op `"\` GL_op' `collinear"""
            .collinear = "`collinear"
        }
        - if `"\` constant"" != "" {
        = if `"""! != "" {
            local GL_op `"\` GL_op' `constant"""
            .nocons = "`constant"
        }
        - local I 0
        - foreach OPT of local MARKOPTNAMES {
            if `:list sizeof `OPT' {
                .mark_list['++I'] = .eqspec.new, numdep(0) wtypes(`.wtypes')
                .mark_list['I'].parse "" : ``OPT''
                .mark_name.Arppush ``OPT''
            }
        }
        - local I 0

```

```

- foreach OPT of local SMARKOPTNAMES {
    if `:list sizeof `OPT'' {
        .smark_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtypes')
        .smark_list[`I'].parse "" : ``OPT''
        .smark_name.Arrpush ``OPT''
    }
}
- local I 0
- foreach OPT of local RMCOLLOPTNAMES {
    if `:list sizeof `OPT'' {
        .rmcoll_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtypes'
> )
        .rmcoll_list[`I'].parse "" : ``OPT''
        .rmcoll_name.Arrpush ``OPT''
    }
}
- local I 0
- foreach OPT of local RMDCOLLOPTNAMES {
    if `:list sizeof `OPT'' {
        .rmdcoll_list[`++I'] = ._eqspec.new, wtypes(`.wtypes')
        .rmdcoll_list[`I'].parse "" : ``OPT''
        .rmdcoll_name.Arrpush ``OPT''
    }
}
- .n_eq = `EQ_n'
= .n_eq = 2
- .gl_if = ```GL_if'''
= .gl_if = `'''
- .gl_in = ```GL_in'''
= .gl_in = `'''
- .gl_wgt = ```GL_wt'''
= .gl_wgt = `'''
- .gl_options = ```:list retok GL_op'''
= .gl_options = `''''

```

---

```
> _____ end _eqlist.pars
> e _____
```

```

- if ``subpop'' != "" & ``missing'' == "" {
= if "" != "" & "missing" == "" {
    if `interactive' {
        SetGlobalVar ML_samp : _MLtu
    }
    else {
        global ML_samp : tempvar
        if ``moptobj'' != "" {
            global ML_samp `moptobj'$ML_samp
        }
    }
}
```

```

    }
}
tempvar markuse
_svys_setup $ML_sample $ML_samp, svy subpop(`subpop')
quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __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' `devars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item indepvars


---


> _____ end _eqspec._check_eq_item_name
> e _____
    - local value ```.item'''
    = local value `cb_authors_ext estimated stky_pr_rotemberg wl
> lth stky_pr_calvo ln_neq open wg_ndx''
    - sreturn local value ```value'''
    = sreturn local value `cb_authors_ext estimated stky_pr_rot
> emberg wlth stky_pr_calvo ln_neq open wg_ndx''
    - class exit ```value'''
    = class exit `cb_authors_ext estimated stky_pr_rotemberg wl
> th stky_pr_calvo ln_neq open wg_ndx''


---


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


---


> _____ end _eqlist.e
> q _____
    = local xvarsi `cb_authors_ext estimated stky_pr_rotemberg wlth
> stky_pr_calvo ln_neq open wg_ndx''
    - local noconsi ```.eq nocons `i''''


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
= if "nocons" == "count" {
    sreturn local value ```.n_eq'''
    class exit ```s(value)'''
}

```

```

- else if `0 < `idx' & `idx' <= `.n_eq' {
= else if `0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item nocons


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons


---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item      nocons
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item nocons


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `""`item"""
= local value `""0"""
- sreturn local value `""`value"""
= sreturn local value `""0"""
- class exit `""`value"""
= class exit `""0"""


---


> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)`"""
= class exit `""0"""


---



```

```

> _____ end _eqlist.e
> q _____
      = local noconsi `"0"
      - local dim = `dim' + `:list sizeof xvars'
      = local dim =  + 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 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 indepvars

```

```

- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item indepvars


---


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


---


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


---


> _____ end _eqlist.e
> q _____
= local 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' `deptrs' `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_nam
> e _____
        - version 9.2
        - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
        - if c(rc) error 198
        - if `:list sizeof other' {
        = if 0 {
            local other other_markvars
        }
        - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
        = local item depvars
        - if `:list sizeof item' != 1 {

```

```

= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item depvars


---


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



---


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



---


> _____ end _eqlist.eq
> q _____
= local depvars y_timing_max
- local eq `.`.eqlist'.eq name `i'''



---


> _____ begin _eqlist.eq
> q _____
- version 9.2
- args item idx
- if "``item'" == "count" {
= if "name" == "count" {
    sreturn local value `""`.n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `.`.n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item name



---


> _____ begin _eqspec.item
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, name

```

```

> ----- begin _eqspec._check_eq_item_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_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 ``cb_authors_ext estimated stky_pr_rotemberg wlth
> h stky_pr_calvo ln_neq open wg_ndx``
    - sreturn local value ```value`````
    = sreturn local value ``cb_authors_ext estimated stky_pr_rotem
> berg wlth stky_pr_calvo ln_neq open wg_ndx``
    - class exit ```value`````
    = class exit ``cb_authors_ext estimated stky_pr_rotemberg wlth
> stky_pr_calvo ln_neq open wg_ndx``
_____
> _____ end _eqspec.ite
> m _____
    - class exit ```s(value)`````
    = class exit ``cb_authors_ext estimated stky_pr_rotemberg wlth s
> tky_pr_calvo ln_neq open wg_ndx``
_____
> _____ end _eqlist.e
> q _____
    = fvexpand cb_authors_ext estimated stky_pr_rotemberg wlth stky_pr
> _calvo ln_neq open wg_ndx 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 stky_pr_rotemberg wlth
> stky_pr_calvo ln_neq open wg_ndx``
    - 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 `"(value)"
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item offset

```

---

```

> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, offset

```

---

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item          offset
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item offset

```

---

```

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

```

```

= class exit `"""
_____
> _____ end _eqspec.ite
> m _____
- class exit `""`s(value)`"""
= class exit `"""
_____
> _____ end _eqlist.e
> q _____
= local eq_offset1
- local eq_exposure`i' `.`eqlist'.eq exposure `i''
_____
> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "exposure" == "count" {
    sreturn local value `""`n_eq`"""
    class exit `""`s(value)`"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item exposure
_____
> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, exposure
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `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_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_exposure1 0
- local eq_freeparm`i' `.`eqlist'.eq freeparm `i''


---


> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if ``item'' == "count" {
= if "freeparm" == "count" {
    sreturn local value ``.`n_eq'''
    class exit ```s(value)'''
}
- else if 0 < `idx' & `idx' <= `.`n_eq' {
= else if 0 < 1 & 1 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[1].item freeparm


---


> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, freeparm

```

---

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item           freeparm
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item freeparm

```

---

```

> _____ end _eqspec._check_eq_item_nam
> e _____
    - local value `""`item"""
    = local value `""0"""
    - sreturn local value `""`value"""
    = sreturn local value `""0"""
    - class exit `""`value"""
    = class exit `""0"""


```

---

```

> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)`"""
    = class exit `""0"""


```

---

```

> _____ end _eqlist.e
> q _____
    = local eq_freeparm1 0
    - local lhs `lhs' `depvars'
    = local lhs 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: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: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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calv
> o"""
- }
- 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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calv
> o 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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calv
> o y_timing_max:ln_neq y_timing_max:open"""
- }
- 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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calv
> o y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx"""
- }
- 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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calv
> o y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx y_timing_max:_co
> ns''
- }
- 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_nam
> e _____
    - local value `".`item"'''
    = local value `lnalpha"'
    - sreturn local value `"`value"'''
```

```

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


---


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


---


> _____ end _eqlist.e
> q _____
    = local eq lnalpha
    - if !`:length local eq' {
    = if !7 {
        local eq eq`i'
    }
    - if `:list eq in eqnames' {
    = if 0 {
        di as err "equation ``eq'' multiply defined"
        exit 110
    }
    - local eqnames `eqnames' `eq'
    = local eqnames 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_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 __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 eplist.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 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item nocons
-----
```

---

```

> ----- begin _eqspec.ite
> m -----
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons
-----
```

---

```

> ----- begin _eqspec._check_eq_item_nam
> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
  - if c(rc) error 198
  - if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
  - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item      nocons
  - if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
  - c_local `c_item' `item'
= c_local item nocons
-----
```

---

```

> ----- end _eqspec._check_eq_item_nam
> e -----
  - local value `".`item`"
= local value `"0`"
  - sreturn local value `"`value`"
= sreturn local value `"0`"
```

```

    - class exit `""`value"""
    = class exit `""`0"""

> _____ end _eqspec.ite
> m _____
    - class exit `""`s(value)"""
    = class exit `""`0"""

> _____ end _eqlist.e
> q _____
    = local eq_nocons2 0
    - local eq_offset`i' `.`eqlist'.eq offset `i"""

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "offset" == "count" {
        sreturn local value `""`.n_eq"""
        class exit `""`s(value)"""
    }
    - else if 0 < `idx' & `idx' <= `.`n_eq' {
    = else if 0 < 2 & 2 <= 2 {
        - .eq_list[`idx'].item `item'
        = .eq_list[2].item offset

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, offset

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freparm' `options'

```

```

= local item      offset
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item offset


---


> _____ 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'

```

```

> _____ 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_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 `"`$value`"""
= class exit `"1"""

> -----
> 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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calv
> o y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx y_timing_max:_co
> ns /: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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:st
> ky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx y_timi
> ng_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 _____
    - gettok 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(" =")
    - tempfile 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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_calvo y_tim
> ng_max:ln_neq y_timing_max:open y_timing_max:wg_ndx y_timing_max:_cons /lnal
> pha''!=``' {
    - `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:stky_pr_rotemberg y_timing_max:
> wlth y_timing_max:stky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timi
> ng_max:wg_ndx y_timing_max:_cons /lnalpha" `initial vector: "" "" "first"


---


> _____ begin _mkvec.ChkName
> s _____
    - local vv : display "version " string(_caller()) ":" 
    - version 6
    - args mat matin names error skip first
    - local dim = colsof(matrix(`mat'))
    = local dim = colsof(matrix(__00000C))
    - if "`first'"!=""
    = if "first"!=""
        - gettoken name : names
        - local eq1 = bsubstr(`name',1,index(`name',":"))
        = local eq1 = bsubstr(`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_aut
> 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 `"'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(stripe)`'''
    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: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':`name'"
            }
            - }
            - `vv' local j = colnumb(`new','`spec')"

```

```

= version 18: local j = colnumb(__00000D,"y_timing_max:stky_p
> r_rotemberg")
- if `j' == . & "`oname'" != "" {
= if 3 == . & "" != "" {
`vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 3 == . & "/y_timing_max:stky_pr_rotemberg" != "" {
`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: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(strip)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','``spec''')
= version 18: local j = colnumb(__00000D,"y_timing_max:wlth"
> )
- if `j' == . & "`oname'" != "" {
= if 4 == . & "" != "" {
    `vv' local j = colnumb(`new','``ospec''')
}
- if `j' == . & "`sspec'" != "" {
= if 4 == . & "/y_timing_max:wlth" != "" {
    `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: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(stripes)''
    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 5 == . & "" != "" {
    `vv' local j = colnumb(`new','``ospec''')
}
- if `j' == . & ``sspec'' != "" {
= if 5 == . & "/y_timing_max:stky_pr_calvo" != "" {
    `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 __0000F = __0000C[1,6..6]
    - local eq : coleq `x'
    = local eq : coleq __0000F
    - local name : colname `x'
    = local name : colname __0000F
    - 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(stripe)`""
    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 6 == . & "" != "" {
    `vv' local j = colnumb(`new','``ospec``')
}
- if `j' == . & ``sspec'' != "" {
= if 6 == . & "/y_timing_max:ln_neq" != "" {
    `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 __0000E[1,6] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ``eq''== "_" {
            di in red ``error'duplicate '' ``entries for `name' found''
        }
    }
    else di in red ``error'' ``duplicate entries for `eq':`nam

```

```

> e' found"""
    exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __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: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 7 == . & "" != "" {
`vv' local j = colnumb(`new','`ospec""")
}
- if `j' == . & ``sspec"" != "" {
= if 7 == . & "/y_timing_max:open" != "" {
`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 __0000E[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:wg_ndx"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("y_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/y_timing_max:wg_ndx"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wg_ndx, 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
> '')
- if `j' == . & "`oname'" != "" {
= if 8 == . & "" != "" {
  `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 8 == . & "/y_timing_max:wg_ndx" != "" {
  `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 __00000E[1,8] {
  _ms_parse_parts `name'
  if !r(omit) {
    if "`eq'"=="_"
      di in red `error'duplicate "' `entries for `name' found'"
    }
    else di in red `error'' ``duplicate entries for `eq':`nam
> e' found''
    exit 507
  }
  else if !missing(`new'[1,`j']) {
    matrix `mat'[1,`i'] = `new'[1,`j']
  }
}
- else mat `fill'[1,`j'] = 1
= else mat __00000E[1,8] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,8] = __00000C[1,8]
- }
- else if "`skip'"==""
= else if ""==""
  if "`eq'"=="_"
    local spec : copy local name
  }
  di in red `error'extra parameter "' `spec' found'" _n "s

```

```

> pecify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 8 + 1
-
- while `i' <= `dim' {
= while 9 <= 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(__00000D,"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 __00000E[1,9] {
_ms_parse_parts `name'
if !r(omit) {
if ``eq''''=="_"
di in red ``error'duplicate '' ``entries for `name' found''
}
else di in red ``error''' ``duplicate entries for `eq':`nam
> e' found'''
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000E[1,9] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,9] = __00000C[1,9]
-
- else if ``skip''''=="" {
= else if ""=="" {
if ``eq''''=="_"
local spec : copy local name
}
di in red ``error'extra parameter '' ``spec' found'' _n "s
> pecify skip option if necessary"
exit 111
}
- local i = `i' + 1
= local i = 9 + 1
-
- while `i' <= `dim' {
= while 10 <= 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(strip)`"
        local ospec `eq':`oname"
    }
}
`vv' local j = colnumb(`new','`spec'")
if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`ospec')
}
if `j' == . & "`sspec'" != "" {
`vv' local j = colnumb(`new','`sspec')
}
if `j'==. & "`eq'"=="_" & "`eq1'"!="{
`vv' local j = colnumb(`new','`eq1``name')
if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`eq1``oname')
}
}
if `j'!=. {
    if `fill'[1,`j'] {
        _ms_parse_parts `name'
        if !r(omit) {
            if "`eq'"=="_"
                di in red `error'duplicate ``"entries for `name' found``
            }
            else di in red `error'' ``duplicate entries for `eq':`nam
> e' found''
        exit 507
    }
    else if !missing(`new'[1,`j']) {
        matrix `mat'[1,`i'] = `new'[1,`j']
    }
}
else mat `fill'[1,`j'] = 1
mat `new'[1,`j'] = `mat'[1,`i']
}
else if "`skip'"==""
if "`eq'"=="_"
local spec : copy local name
}
di in red `error'extra parameter ``"`spec' found'' _n "s
> pecify skip option if necessary"
exit 111

```

```

        }
        local i = `i' + 1
    }
- mat `fill' = `fill'*`fill'
= mat __00000E = __00000E*__00000E'
- sret clear
- sret local k_fill = `fill'[1,1]
= sret local k_fill = __00000E[1,1]
- mat `mat' = `new'
= mat __00000C = __00000D


---


> _____ end _mkvec.ChkName
> s _____
- local fill `s(k_fill)'
= local fill 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(__0000C))
- matrix rename `mat' `matout', replace
= matrix rename __0000C __0000B, replace


---


> _____ end _mkve
> c _____
- }
- tempname bomit
- matrix `bomit' = J(1,`:list sizeof colna',0)
= matrix __0000C = J(1,10,0)
- matrix colna `bomit' = `colna'
= matrix colna __0000C = y_timing_max:cb_authors_ext y_timing_ma
> x:estimated y_timing_max:stky_pr_rotemberg y_timing_max:wlth y_timing_max:st
> ky_pr_calvo y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx y_timi
> ng_max:_cons /:lnalpha
- _ms_omit_info `bomit'
= _ms_omit_info __0000C
- if r(k OMIT) | `:length local constraints' {
= if r(k OMIT) | 0 {
nobreak {
capture noisily break {
_b_post0 `colna'
local clist : subinstr local constraints "," " ", all
`vv' makecns `clist', `cnsnotes'
local constraints `""`r(clist)`"""
local k_autoCns = e(k_autoCns)
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(0IM 0PG Robust) old : `w
> t', `vce'
  = _vce_parse, argoptlist(CLuster) optlist(0IM 0PG Robust) old : ,
> vce(robust) robust


---


> _____ begin _vce_pars
> e _____
  - version 10
  - _onColon_parse `0'
  = _onColon_parse , argoptlist(CLuster) optlist(0IM 0PG Robust)
> old : , vce(robust) robust


---


> _____ begin _onColon_pars
> e _____
  - version 8.2
  - sreturn local before """
  - sreturn local after """
  - gettoken before after : 0, parse(":") bind match(par) quotes
  - if "`par'" != "" {
  = if "" != "" {
    local before `"(`before')"`
    }
  - if `"`before`"' == ":" {
  = if `", argoptlist(CLuster) optlist(0IM 0PG Robust) old "' ==
> ":" {
      sreturn local after `"`after`"'
      exit
      }
  - while `"`COLON`"' != ":" & `"`after`"' != "" {
  = while `""` != ":" & `":` , vce(robust) robust"' != "" {
    - gettoken COLON after : after, parse(":") bind match(par) quo
> tes
  - if "`par'" != "" {
  = if "" != "" {
    local before `before' (`COLON')
    local COLON
    }
  - else if `"`COLON`"' != ":" {
  = else if `":` != ":" {
    local before `"`before` `COLON`"'
    local COLON
    }
  - }
  - while `"`COLON`"' != ":" & `"`after`"' != "" {
  = while `":` != ":" & `", vce(robust) robust"' != "" {

```

```

        gettok 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.adopt 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.Arppush "`optspec'"
= .options.Arppush "Robust"
- .names.Arppush "`mname'"
= .names.Arppush "robust"


---


> _____ end _optlist.addop
> t _____
- }
- `a' = ._optlist.new
= __0000E = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- `a'.addopt `name'
= __0000E.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 pswallowed : list uniq pswallowed
    - local pwlist robust cluster
    - foreach n of local pswallowed {
        local lc = lower(``n""")
        local pwlist `pwlist' `lc'
    }
    - if "`old_is_ok'" != "" {
    = if "old_is_ok" != "" {
    - local ROBUST robust

```

```

- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
- }
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
- }
- }
- local 0 `""`user"""
= local 0 `", vce(robust) robust"""
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varnam
> e) ]
- if `""`vce""' != "" {
= if `"robust""' != "" {
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE __00000D __00000E , robust


---


> _____ begin _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 `""`O'.dumpnames' `.`A'.dumpnames```"


---


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


---


> _____ end _optlist.dumpname
> s _____

```

---

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



---


> _____ end _optlist.dumpname
> s _____
    = local 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", "oim"
> 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 $ML_grp = group(`group')
    if ! `:length local cluster' {
        local cluster : copy global ML_group
    }
}
else {
    if ! `:length local cluster' {
        local cluster : copy global ML_group
    }
}
- if "$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 _____
>     - capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2 mis
> singokay) NOMIN MIN]

```

```

- if (_rc) {
    syntax [, LEN(integer 0) MIN1(string) NOMIN MIN]
}
- if `"`min1`" != "" & `"`nomin`" != "" {
= if `""` != "" & `""` != "" {
    di as err "options {bf:min()} and {bf:nomin} are mutually excl
> usive"
        exit 198
    }
- if `"`min`" != "" & `"`nomin`" != "" {
= if `""` != "" & `""` != "" {
    di as err "options {bf:min} and {bf:nomin} are mutually exclus
> ive"
        exit 198
    }
- if (`"`min1`" != "") {
= if (`""` != "") {
    if (_rc) {
        capture confirm matrix `min1'
        if (_rc) {
            di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
                exit 198
            }
        }
        local deriv `min1'
    }
- else if (`"`min`" != "") {
= else if (`""` != "") {
    if (`len' > length(`"`min`")) {
        di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
            exit 198
        }
        local deriv 1
    }
- else {
- if (`len' > 0) {
= if (0 > 0) {
    if ("`nomin'" == "") {
        di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
            exit 198
        }
    }
    else if (`len' > length(`"`nomin`")) {
        di as err "options {bf:min()} and {bf:nomin} are mutually excl

```

```

> usive"
    exit 198
}
else {
    local deriv 0
}
}
-
else {
-
local deriv 0
-
}
-
sreturn local deriv `deriv'
= sreturn local deriv 0

```

---

```

> _____ end mopt.ParseUseli
> n _____
    - local deriv = s(deriv)
    - if `:length local gnwmatrix' {
= if 0 {
    confirm matrix `gnwmatrix'
}
-
`vv' mata: Mopt_model()
= version 18: mata: Mopt_model()

```

---

```

> _____ begin mopt_check_progra
> m _____
    - version 10
    - args name
    - capture confirm name `name'
= capture confirm name nbreg_lf
    - if c(rc) {
        di as err "unrecognized command: `name' invalid command name
> "
        exit 199
    }
    - capture which `name'
= capture which nbreg_lf
    - if !c(rc) {
    - exit

```

---

```

> _____ end mopt_check_progra
> 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 noOUPtput 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 showrtolerance' {
    = if 0 {
        local showtolerance showrtolerance
    }
    - 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 __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 _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 2 == 0 | _000000==. { exit }
    - tempname alpha
    - tempvar mu p
    - quietly {
    - gen double `mu' = exp(`xb') if $ML_samp
    = gen double _00000Y = exp(_00000U) if _000006
    - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
    = gen double _00000Z = 1/(1+exp(_00000U+_00000V)) if _0000
> 06
    - if `lnalpha'<-20 {
    = if _00000V<-20 {
        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
    - else {
        replace `sc1' = `p'*(`y'-`mu') if $ML_samp
        replace _00000R = _00000Z*(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 _0
> 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' \ `d21', `d22')
= matrix __00000Q = (__000011, __000012 \ __000012', __000013)

> _____ end nbreg_l
> f _____
Iteration 0: Log pseudolikelihood = -376.86315

> _____ 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 {
- 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 {
        - 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 }
        - 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 __000
> 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 = -368.58169
> _____ 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 {
    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
- 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 {
    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 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 __0000Z = 1/(1+exp(__0000U+__0000V)) if __0000
> 06
- if `lnalpha'<-20 {
= if __0000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __0000R = __0000Z*(y_timing_max-__0000Y) if __0000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __0000S = __0000W*(digamma(__0000W) - digamma(y_t
> iming_max+__0000W) - ln(__0000Z)) + __0000Z*(y_timing_max-__0000Y) 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(__0000V)
- if `lnalpha' < -20 {
= if __0000V < -20 {
    mllmatsum `lnf' `d11' = `mu', eq(1)
    mllmatsum `lnf' `d12' = 0, eq(1,2)
    mllmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mllmatsum `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+__0000W) - ln(__0000Z) - __00000W*(trigamma(y_timing_m
> ax+__0000W) - 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 2: Log pseudolikelihood = -367.89706
> _____ 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 {
          mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
        }
      - else {
          - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnlalpha')) - `y'*ln1p(exp(-`xb'-`lnlalpha'))
          = 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 | __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 {
        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 | __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 {
    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 | __00000==. { exit }
- tempfile alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(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 mlvecsum `lnf' `g1' = `sc1', eq(1)

```

```

= * mlvecsum __000000 = __00000R, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __000000 = __00000S, eq(2)
- $ML_ec matrix `g' = (`g1',`g2')
= * matrix __00000P = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __000000==. { exit }
- tempfile alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __000010 = exp(__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlmatsum `lnf' `d11' = `mu', eq(1)
    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p`*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(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 3: Log pseudolikelihood = -367.88759

```

---

```

> _____ 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 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 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 | _00000==. { exit }
- tempfile alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double _00000Y = exp(_00000U) if _000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double _00000Z = 1/(1+exp(_00000U+_00000V)) if _0000
> 06
- if `lnalpha'<-20 {

```

```

= if __00000V<-20 {
    replace `sc1' = `y'-'`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-'`mu') if $ML_samp
= replace __00000R = __00000Z*(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_
> 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 4: Log pseudolikelihood = -367.88758
    _____
> _____ 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
      - gettoken is_svy 0 : 0
      - if `is_svy' == "1" {
= if `0' == "1" {
      if `e(complete)' == "available" {
        di as err `must run svy command with "complete" '' "opt
> ion before using this command"
      exit 301
    }

```

```

        }
- 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 MINimum
> Mtest Mtest2(passthru) noTest COEF matvlc(passthru) DF(numlist max=1 >0) ]
- if `"\`df" != "" {
= if `"\`df" != "" {
    local dof = `df'
}
- else if `"\`e(df_r)" != "" {
= else if `"\`e(df_r)" != "" {
    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
    - ExpandExpns `"`eqns`"' `common`" `constant`"
    = ExpandExpns `"[#1]"' "" ""



---


> _____ begin test.ExpandExpn
> s _____
    - args expns common constant
    - gettoken exp expns : expns
    - while `"`exp`"' != "" {
        = while `"[#1]"' != "" {
        - Expand `"`exp`"' `common`" `constant`"
        = Expand `"[#1]"' "" ""



---


> _____ begin test.Expan
> d _____
    - args exp common constant
    - local junk : subinstr local exp "=" "=", count(local
> nch) all
    - if `nch' <= 1 {
        = if 0 <= 1 {
        - return local explist `""`exp`"""
        = return local explist `"""[#1]"""
        - return local nexp 1
        - exit

```

---

```

> _____ end test.Expan
> d _____
    - local explist `""`explist' `r(explist)"""
    = local explist `""`[#1]"""
    - local nexp = `nexp' + `r(nexp)'
    = local nexp = + 1
    - gettoken exp expns : expns
    - }
    - while `""`exp"" != "" {
    = while `""` != "" {
        Expand `""`exp"" "common" "constant"
        local explist `""`explist' `r(explist)"""
        local nexp = `nexp' + `r(nexp)'
        gettoken exp expns : expns
        }
    - return local explist `""`explist"""
    = return local explist `""`[#1]"""
    - return local nexp `nexp'
    = return local nexp 1
_____
> _____ end test.ExpandExpn
> s _____
    - local explist `""`r(explist)"""
    = local explist `""`[#1]"""
    - local nexp `r(nexp)'
    = local nexp 1
    - local acc `accumulate'
    = local acc
    - foreach exp of local explist {
    - quietly _test `exp' , `acc' `common' `constant' notest
    = quietly _test [#1] , notest
    - local acc acc
    - }
    - if "`test'" == "notest" {
    = if "" == "notest" {
        _test , notest
        exit
        }
    - quietly _test , `matvlc'
    = quietly _test ,
    - if `dof' < . {
    = if . < . {
        local testtype F
        tempfile F df1 df2 p drop
        if `r(F)' != "" {
            scalar `F' = r(F)

```

```

} else {
scalar `F' = r(chi2)/r(df)
}
scalar `df1' = r(df)
scalar `df2' = `dof'
scalar `p' = Ftail(`df1', `df2', `F')
scalar `drop' = r(drop)
}
- else {
- local testtype chi2
- tempname chi2 df1 p drop
- scalar `chi2' = r(chi2)
= scalar __00000Y = r(chi2)
- scalar `df1' = r(df)
= scalar __00000Z = r(df)
- scalar `p' = r(p)
= scalar __000010 = r(p)
- scalar `drop' = r(drop)
= scalar __000011 = r(drop)
- }
- local i 1
- while "`r(dropped_`i')'" != "" {
= while "" != "" {
    local dropped_`i' `r(dropped_`i')"
    local ++i
}
- if `svy_adjust' {
= if 0 {
    if "`df'" != "" {
        local svy_d = `df'
    }
    else if !missing(e(df_r)) {
        local svy_d = e(df_r)
    }
    else local svy_d = e(N_psu)-e(N_strata)
    if missing(`svy_d') {
        di as err "internal error in adjustment for svy"
        exit 10001
    }
    if "`testtype'" == "F" {
        scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
    }
    else {
        tempname F df2
        scalar `F' = ((`svy_d'-`df1'+1)/(`svy_d'*`df1')) * `chi2
    }
}

```

```

> '
}
scalar `df2' = `svy_d' - `df1' + 1
if `df2' < 0 {
scalar `F' = .
}
scalar `p' = Ftail(`df1', `df2', `F')
local testtype F
}
- if "`mtmethod'" != "" {
= if "" != "" {
tempname R r Rr V b VR tm Wald
mat `V' = e(V)
mat `b' = e(b)
mat `Rr' = get(Rr)
local nb = rowsof(`V')
local nr = rowsof(`Rr')
mat `R' = `Rr'[1...,1..`nb']
mat `VR' = `R'*`V'*`R'
mat `r' = `R'*`b' - `Rr'[1...,`=nb'+1']
mat `Wald' = `r'*syminv(`VR')*`r'
mat `tm' = J(`nr', 3, .)
mat colnames `tm' = `testtype' df p
forvalues it = 1 / `nr' {
mat `Wald' = `r'[`it',1]^2 / `VR'[`it',`it']
mat `tm'[`it',1] = `Wald'[1,1]
mat `tm'[`it',2] = 1
if `svy_adjust' {
mat `tm'[`it',3] = Ftail(1,`svy_d',`tm'[`it',1])
}
else if "`testtype'" == "chi2" {
mat `tm'[`it',3] = chi2tail(1,`tm'[`it',1])
}
else {
mat `tm'[`it',3] = Ftail(1,`df2',`tm'[`it',1])
}
}
if "`mtmethod'" != "noadjust" {
_mtest adjust `tm', mtest(`mtmethod') pindex(3) append
mat `tm' = r(result)
local pindex 4
}
else local pindex 3
}
- _test, notest
- local i 1

```

```

- while "`dropped_`i'" != "" {
= while "" != "" {
    di as txt "      Constraint `dropped_`i'' dropped"
    local ++i
}
- if "`mtmethod'" == "" {
= if "" == "" {
- di
- if "`testtype'" == "chi2" {
= if "chi2" == "chi2" {
- di as txt _col(12) "chi2(`%3.0f `df1' `") =" as res %8.2
> f `chi2'
= di as txt _col(12) "chi2(`%3.0f __00000Z `") =" as res %
> 8.2f __00000Y
- di as txt _col(10) "Prob > chi2 = " as res %8.4f `p'
= di as txt _col(10) "Prob > chi2 = " as res %8.4f __0000
> 10
- }
- else {
    di as txt "      F(`%3.0f `df1' `," %6.0f `df2' `") =" as res %8.2f `F'
        di as txt _col(13) "Prob > F =" as res %10.4f `p'
    }
- }
- else {
    local nexp = rowsof(`tm')
    local nc = colsof(`tm')
    if "`testtype'" == "F" {
        local d "F(df,`=`df2'`)"
        local dip "p > F"
    }
    else {
        local d chi2
        local dip "p > chi2"
    }
    di
    di as txt "{hline 7}{c TT}{hline 30}"
    di as txt "      {c |}{ralign 12:`d'}      df{ralign 11:
> `dip'}"
        di as txt "{hline 7}{c +}{hline 30}"
        forvalues it = 1 / `nexp' {
            di as txt "      (`it') {c |}" as res _col(12) %9.2f `tm'[`it',1] _col(22) %6.0f `tm'[`it',2] _col(33) %6.4f `tm'[`it','pindex'] as txt
>     "*"
        }
        di as txt "{hline 7}{c +}{hline 30}"

```

```

        di as txt "    All {c |}" as res _col(12) %9.2f ``testtyp
> e'' _col(22) %6.0f `df1' _col(33) %6.4f `p'
        di as txt "{hline 7}{c BT}{hline 30}"
        _mtest footer 1 "`mtmethod'" "* "
    }
- if "`coef'" != "" {
= if "" != "" {
    Table
}
- return scalar p = `p'
= return scalar p = __000010
- return scalar df = `df1'
= return scalar df = __00000Z
- if "`testtype'" == "F" {
= if "chi2" == "F" {
    return scalar F = `F'
    return scalar df_r = `df2'
}
- else return scalar chi2 = `chi2'
= else return scalar chi2 = __00000Y
- return scalar drop = `drop'
= return scalar drop = __000011
- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    return scalar dropped_`i' = `dropped_`i''
    local ++i
}
- if "`mtmethod'" != "" {
= if "" != "" {
    return matrix mtest `tm'
    return local mtmethod `mtmethod'
}


---


> _____ end test.WaldTes
> t _____
- return add


---


> _____ end tes
> t _____
- if !c(rc) {
- if `:length local minimum' {
= if 7 {
- quietly test, min


---


> _____ begin tes

```

```

> t -----
  - if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
  = if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
  }
  - if "`e(cmd)'" == "mixed" {
  = if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
  }
  - if _caller() < 8 {
    _test `0'
    return add
    exit
  }
  - is_svy
----- begin is_sv
> y -----
  - version 8
  - syntax [, Regression]
  - if `"`e(prefix)`"" == "svy" {
  = if `""` == "svy" {
    return scalar is_svy = 1
  }
  - else if "`regression'" == "" {
  = else if "" == "" {
    - return scalar is_svy = ("`e(N_psu)'" != "")
  = return scalar is_svy = ("" != "")
  - }
  - else {
    capt mat list e(b)
    local rc = _rc
    return scalar is_svy = ("`e(N_psu)'" != "") & (`rc' == 0
> )
  }
----- end is_sv
> y -----
  - local is_svy = r(is_svy)
  - if replay() & `is_svy' == 0 {
  = if replay() & 0 == 0 {
  - _test `0'

```

```

= _test , min
- return add
- exit


---


> _____ end tes
> t _____
    -
    - ereturn scalar df_m = r(df)
    - local drop = r(drop)
    - if `drop' {
    = if 0 {
        local drop 0
        local i 1
        local idrop `r(dropped_`i')'''
        while "`idrop'" != "" {
            if !`omit'[1,`idrop'] {
                local ++drop
            }
            local ++i
            local idrop `r(dropped_`i')'''
        }
    }
    - if `drop' == 0 | "`cns'" != "" {
    = if 0 == 0 | "" != "" {
        - if !missing(e(df_r)) {
            ereturn scalar F = r(F)
        }
        - else {
            - ereturn scalar chi2 = r(chi2)
            - ereturn local chi2type Wald
            -
            - ereturn scalar p = r(p)
            -
        }
        - else {
            if !missing(e(df_r)) {
                ereturn scalar F = .
            }
            else {
                ereturn scalar chi2 = .
                ereturn local chi2type Wald
            }
            ereturn scalar p = .
        }
    }
    - else {
        if missing(e(df_r)) {

```

```

        ereturn local chi2type Wald
    }
    ereturn scalar df_m = 0
}



---


> _____ end _prefix_model_tes
> t _____
- }
- else {
    _prefix_model_test, $ML_svy $ML_noadj
}
-
- else if `:length global ML_ll_0' {
= else if 18 {
    if `"`maxmin`"' == "minimize" {
        ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
    }
    else {
        ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
    }
    ereturn scalar p = chi2tail(e(df_m), e(chi2))
    ereturn local chi2type "LR"
}
-
if `:length global ML_wexp' {
= if 0 {
    ereturn local wtype `"$ML_wtyp"'
    ereturn local wexp `"$ML_wexp"'
}
-
if `:length global ML_group' {
= if 0 {
    ereturn local group `"$ML_group"'
    if `"`e(clustvar)`"' == "$ML_grp" & "$ML_grp" != "" {
        ereturn local clustvar `"$ML_group"'
    }
}
-
ereturn local cmd "ml"
-
if `:length local score' {
= if 0 {
    mata: Mopt_score(0)
    ereturn local scorevars `scores'
}
-
if "$ML_preserve" != "no" {
= if "no" != "no" {
    restore
    if `"`e(prefix)`"' == "svy" & e(N_strata.omit) {
        tempname v
}

```

```

        quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v')
> subpop(`e(subpop)') touse($ML_sample)
    }
    ereturn repost, esample($ML_sample)
}
- if `""`moptobj""' != "" {
= if `""' != "" {
    local clear noclear
}
- if !`:length local clear' {
= if !0 {
- Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop __000006
    - capture drop $ML_samp
    = capture drop __000006
    - capture drop $ML_sample
    = capture drop __000006
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*


---


> _____ end mopt.Clea
> r _____
    - }
    - else {
        capture confirm var $ML_sample
        if c(rc) {
            quietly gen byte $ML_sample = e(sample)
        }
    }
    - if `:length local output' == 0 {
= if 8 == 0 {
    Display, level(`level') `options'
}


---


> _____ end mopt.MaxMi
> n _____
    - }

```

---

```

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


---


> _____ end _b_pcclas
> s _____
- _b_pcclass PCAUX : aux


---


> _____ begin _b_pcclas
> s _____
- version 15
- args c_value COLON key
- _onColon_parse `0'
= _onColon_parse PCAUX : aux


---


> _____ begin _onColon_pars
> e _____
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quotes
- if "`par'" != "" {
= if "" != "" {
    local before `"(`before')"'
}
- if `"`before'"' == ":" {
= if `"PC AUX "' == ":" {
    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_pcclass(``:list retok key``')
= mata: st_b_pcclass("aux")
- c_local `c_value' `value'
= c_local PCAUX 2

```

---

```
> _____ end _b_pcclas
> s _____
```

```

- tempfile pcclass
- matrix `pcclass' = e(b)
= matrix __000006 = e(b)
- local dim = colsof(`pcclass')
= local dim = colsof(__000006)
- matrix `pcclass'[1,1] = J(1,`dim','PCDEF')
= matrix __000006[1,1] = J(1,10,0)
- matrix `pcclass'[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 disperses "`dispers'"
= est local disperses "mean"
- est local offset "`offvar'"
= est local offset ""
- est local offset1
- est hidden local marginsderiv default N IR
- est local predict "nbreg_p"
- est local cmd "nbreg"
- global S_E_ll = e(ll)
- global S_E_ll0 `e(ll_0)'
= global S_E_ll0 -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 .1118734596686392
- 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 nbreg
- if "`display'"==""
= if ""==""
- Display, `irr' level(`level') `diopts'

```

```

= Display, level(95)


---


> _____ begin nbreg.Displa
> y _____
- syntax [, Level(cilevel) IRR *]
- _get_diopts diopts, `options'
= _get_diopts diopts,


---


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


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAP0
> N(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> s EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cform
> at(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pass
> thru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pass
> thru) NOABBREV ABBREV *)
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while ```''' != "" {
    local ++n
    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 f xlabel `f xlabel' `nof xlabel'
= local f xlabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if "`allbaselevels` `baselevels'" == "" {

```

```

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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd 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 "" != "" {
  FWWrap, `fvwrap'
}
- c_local `c_diopts` `levelopt` `vsquish` `allbaselevels` `baselev
> els` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `coeflege
> nd` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compare` `fv
> wrap` `fvrapon` `fvlable` `nci` `nopvalues` `markdown` `citype` `abbrev'
= c_local diopts
- if `K' == 2 {
= if 2 == 2 {
  c_local `c_opts` `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


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

```

```

= local S_after = s(after)
- }
- local S_`sname' = s(`sname')
= local S_before = s(before)
- }
- local S_`sname' = s(`sname')
= local S_log = s(log)
- }
- local S_`sname' = s(`sname')
= local S_deriv = s(deriv)
- }
- local S_`sname' = s(`sname')
= local S_namelist = s(namelist)
- }
- local S_`sname' = s(`sname')
= local S_optlist = s(optlist)
- }
- local S_`sname' = s(`sname')
= local S_k_fill = s(k_fill)
- }
- local S_`sname' = s(`sname')
= local S_k = s(k)
- }
- sreturn clear
- GetDiopts DEFAULT

```

---

```

> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAP0
> N(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> s EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cform
> at(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pass
> thru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pass
> thru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "

```

---

```

> _____ begin opts_exclusiv
> e _____

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``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

```

```

        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
    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
        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 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 fwrapon `word` `width'
= local fwrapon
- if `:length local fwrapon' {
= if 0 {
    c_local fwrapon fwrapon(`fwrapon')
}


---


> _____ end _get_diopts.Wrapo
> n _____
- if "`fwrap'" != "" {
= if "" != "" {
    FWWrap, `fwrap'
}
- c_local `c_diopts` `levelopt` `vsquish` `allbaselevels` `baselev
> els` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `coeflege
> nd` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compare` `fv
> wrap` `fwrapon` `fvlable` `nci` `nopvalues` `markdown` `citype` `abbrev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts` `""`options""'
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____

```

```

- if `"`name2`"" == "" {
= if `""` == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAP0
> N(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> 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

```

```

        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 , `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' `lststretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvwrapon' `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 lcmd : length local subcmd
    - if `subcmd'' == "clear" {
    = if "display" == "clear" {
        Clear
        exit
    }
    - if `""`subcmd"" == "hold" {
    = if `"display" == "hold" {
        ml_hold `0'
        exit
    }
    - if `""`subcmd"" == "unhold" {
    = if `"display" == "unhold" {
        ml_unhold `0'
        exit
    }

```

```

    }
- if "`subcmd'" == "score" {
= if "display" == "score" {
    if _caller() > 12 {
        `vv' Score `0'
    }
    else {
        Score `0'
    }
    exit
}
- if "`subcmd'" == "count" {
= if "display" == "count" {
    Count `0'
    exit
}
- if "`subcmd'" == "trace" {
= if "display" == "trace" {
    Trace `0'
    exit
}
- if "`subcmd'" == bsubstr("graph",1,max(2,`lcmd')) {
= if "display" == bsubstr("graph",1,max(2,7)) {
    Graph `0'
    exit
}
- if "`subcmd'" == "init" {
= if "display" == "init" {
    Interactive 0
    `vv' Init `0'
    exit
}
- if "`subcmd'" == bsubstr("maximize",1,max(3,`lcmd')) {
= if "display" == bsubstr("maximize",1,max(3,7)) {
    Interactive 1
    `vv' MaxMin maximize `0'
    exit
}
- if "`subcmd'" == bsubstr("minimize",1,max(3,`lcmd')) {
= if "display" == bsubstr("minimize",1,max(3,7)) {
    Interactive 1
    `vv' MaxMin minimize `0'
    exit
}
- if "`subcmd'" == bsubstr("display",1,max(2,`lcmd')) {
= if "display" == bsubstr("display",1,max(2,7)) {

```

```

- Display `0'
= Display , level(95) nofootnote


---


> _____ begin mopt.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
> ELevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE

```

```

> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FWRAPON(string) NOFVLABel FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *)
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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


---


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


---


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


---


> _____ end opts_exclusiv

```

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]

```

```

        exit 198
    }
- opts_exclusive ``word' `width''' fvrapon
= opts_exclusive " " fvrapon


---


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


---


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


---


> _____ end _get_diopts.Wrapo
> n _____
    - if ``fwrap'' != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwrap' `fvrapon' `fvlable' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
    = c_local diopts
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' ``options'''
        = c_local options `'''
```

```

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


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1' `""`diopts"""
    = c_local diopts `"""
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname' = s(`sname')
    = local S_level = s(level)
    - }
    - local S_`sname' = s(`sname')
    = local S_k = s(k)
    - }
    - local S_`sname' = s(`sname')
    = local S_k_fill = s(k_fill)
    - }
    - local S_`sname' = s(`sname')
    = local S_optlist = s(optlist)
    - }
    - local S_`sname' = s(`sname')
    = local S_namelist = s(namelist)
    - }
    - local S_`sname' = s(`sname')
    = local S_deriv = s(deriv)
    - }
    - local S_`sname' = s(`sname')
    = local S_log = s(log)
    - }
    - local S_`sname' = s(`sname')
    = local S_before = s(before)
    - }
    - local S_`sname' = s(`sname')
    = local S_after = s(after)
    - }
    - sreturn clear
    - GetDiopts DEFAULT


---



```

```

> _____ begin _get_diopts.GetDiopt
> s _____
> - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
> - syntax namelist(max=2) [, `DIOPTS' *]
> = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
> - opts_exclusive ``allbaselevels' `noallbaselevels''
> = opts_exclusive " "
> _____ begin opts_exclusiv
> e _____
> - version 8.2
> - args opts optname errcode optslab
> - local opts `opts'
> = local opts
> - local n 0
> - while `""`opts"" != "" {
> = while `""` != "" {
>     local ++n
>     gettoken item`n' opts : opts, bind
> }
> - if `n' < 2 {
> = if 0 < 2 {
> - exit
> _____ end opts_exclusiv
> e _____
> - opts_exclusive ``allbaselevels' `nobaselevels''
> = opts_exclusive " "
> _____ begin opts_exclusiv
> e _____
> - version 8.2
> - args opts optname errcode optslab
> - local opts `opts'
> = local opts
> - local n 0

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

```

= opts_exclusive " "


---


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


---


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


---


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


---


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

```

---

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

```

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


---


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

```

```

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

```

```

        }
- Wraphon , `fvwrapon'
= Wraphon ,


---


> _____ 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` `fwrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `abb
> rev`
= c_local DEFAULT
- if `K` == 2 {
= if 1 == 2 {
  c_local `c_opts` `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


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


---


> _____ 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 FWRA
> P(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels` `noallbaselevels`"
= opts_exclusive " "

```

---

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

---

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

```

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

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

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

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

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

```

```

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

```

```

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

```

---

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

```

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

```

---

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

```

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


---


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



---


> _____ end _get_diopts.Wrapo
> n _____
- if "`fwrap'" != "" {
= if "" != "" {
    FWrap, `fwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwrap' `fwrapon' `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 tr TRatio
>         - if "`options'" != "" {
>         = if "options" != "" {
>             - syntax [, EForm1(passthru) EForm `EFALL' * ]
>             = syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio * ]
>                 - local opts `""`options"""
>                 = local opts `"""
>                 - local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or' `i
> rr' `rrr' `tr' `tratio'
>                 = local 0 ,
>                 - }
>                 - if "`allowed'" == "__all__" {
>                 = if "__all__" == "__all__" {
>                     - local allowed `EFALL'
>                     = local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
>                     - }
>                     - foreach ef of local allowed {
>                         - capture confirm name `ef'
>                         = capture confirm name NOHR
>                         - if _rc {
>                             di as err "`ef' is not a valid name"
>                             exit 198
>                         }
>                         - local efopts `efopts' `=lower(``ef``)'
>                         = local efopts nohr
>                         - }
>                         - capture confirm name `ef'
>                         = capture confirm name hr
>                         - if _rc {
>                             di as err "`ef' is not a valid name"

```

```

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

```



```

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

```

```

}
- if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
    else if ("`eform'"=="tr") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="tratio") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="or") {
        local eform1 = "Odds ratio"
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local eform_cons_ti = "Rel. risk"
            local eform_cons_note = "relative-risk ratios"
            local eform_cons_ti2 = "relative risk"
        }
        else {
            local eform_cons_ti = "Odds"
            local eform_cons_note = "odds ratios"
        }
    }
    else if ("`eform'"=="irr") {
        local eform1 = "IRR"
        local eform_cons_ti = "Inc. rate"
        local eform_cons_note = "incidence-rate ratios"
        local eform_cons_ti2 = "incidence rate"
    }
    else if ("`eform'"=="rrr") {
        local eform1 = "RRR"
        local eform_cons_ti = "Rel. risk"
    }
}

```

```

local eform_cons_note = "relative-risk ratios"
local eform_cons_ti2 = "relative risk"
}
else if ("`eform'"!="nohr") & ("`eform'"!="noshr") {
local eform1 = upper("`eform'")
}
}
- 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 eform `s(eform)'
= local eform
- local diparm `s(options)'
= local diparm
- _get_diparmopts , diparmopts(`diparm') level(`level')
= _get_diparmopts , diparmopts() level(95)


---


> _____ begin _get_diparmopt
> s _____
- if _caller() < 8.2 {
    _get_diparmopts_8 `0'
    exit
}
- version 9
- local version : di "version " string(_caller()) ":""
- syntax [, diparmopts(string asis) EXECute soptions bottom pl
> us SYNTAXonly *
- local goptions `options'

```

```

= local goptions level(95)
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk , level(95)


---


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


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts''''
= local 0 `", ""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while ```diparm''' != "" {
= while `''' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm ```s(before)''''
        local after ```s(after)''''
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptio
> ns'

```

```

local diparm`k' `""`diparm"""
local diparmopts `""`diparmopts' : `diparm"""
if `single' | `""`:list retok after"" = "" {
local 0 `", `options"""
syntax [, diparm(string asis) * ]
}
else {
local diparm `""`after"""
}
}
- if `""`soptions"" = "" {
= if `"""" = "" {
- syntax [, diparm(string asis) ]
- }
- if ("`execute'" = "") {
= if ("" = "") {
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `"""
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `"""
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `""`diparm`i"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- if "`header'"==""
= if ""==""
- _coef_table_header, `title'
= _coef_table_header,


---


> _____ begin _coef_table_head
> r _____
- version 9
- if !c(noisily) {
exit
}
- syntax [, rclass noHeader obj(string) head1left(numlist max=
> 1 integer >=0) head1right(numlist max=1 integer >=0) head2left(numlist max=1
> integer >=0) head2right(numlist max=1 integer >=0) head2start(numlist max=1
> integer >=1) width(numlist max=1 integer >=1) * ]

```

```

- if ("`header'" != "") exit
= if ("'" != "") exit
- if ("`head2start'" != "" & "`width'" != "") {
= if ("'" != "" & "" != "") {
    opts_exclusive "head2start() width()"
    exit 198
}
- local has_obj = (`"`obj'"' != "")
= local has_obj = ('"' != "")
- if (`has_obj' == 0) {
= if (0 == 0) {
- 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_nuncensored  = 0
-
-      double  prop_islected    = 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'
    }
}
}

```



```

> 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 xtclglog xtfrontier xti
> ntreg xtnbreg
      - local list `list' xtpoisson xttobit xtmlogit xtrc
      = local list xtreg xtprobit xtlogit xtclglog xtfrontier xti
> ntreg xtnbreg xtpoisson xttobit xtmlogit xtrc
      - local list2 xtlogit xtoprobit xtologit xtmlogit
      - if `:list posof ``.cmd'' in list' | `:list posof ``.cmd2''
> in list2' {
      = if 0 | 0 {
          .prop_groups = 1
          .groupvar = "`e(ivar)'"
          .intmethod = "`e(intmethod)'"
          .intpoints = e(n_quad)
      }
      - if ``.cmd'' == "xtreg" | ``.cmd2'' == "xtlogit" {
      = if "nbreg" == "xtreg" | "" == "xtlogit" {

```

```

    .is_r2_p = 0
}
- if `:list posof "balance" in props' {
= if 0 {
    .prop_balance = 1
}
- .left = {}
- .right = {}



---


> _____ end _coef_table_header.ne
> w _____
    - if ("`rclass'" != "") {
= if ("'" != "") {
    _return restore `rhold'
    .`obj'.New4r
}
- if ("`head1left'" != "") {
= if ("'" != "") {
    .`obj'.lalignla = `head1left'
}
- if ("`head1right'" != "") {
= if ("'" != "") {
    .`obj'.ralignla = `head1right'
}
- if ("`head2left'" != "") {
= if ("'" != "") {
    .`obj'.lalignnr = `head2left'
}
- if ("`head2right'" != "") {
= if ("'" != "") {
    .`obj'.ralignnr = `head2right'
}
- if ("`width'" != "") {
= if ("'" != "") {
    .`obj'.width = `width'
}
- .`obj'.build
= .__00007.build



---


> _____ begin _coef_table_header.buil
> d _____
    - version 16
    - if `"\`title`"' == "" {
= if `""` == "" {
    - .title = `"\`Macro title`"'

```

---

```

> _____ begin _coef_table_header.Macr
> 0
>      - version 16
>      - class exit ```.result`(`0')```
>      = class exit `"Negative binomial regression"`

> _____ end _coef_table_header.Macr
> 0
>      = .title = `"Negative binomial regression"`
>      - .title2 = ```.Macro title2````

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

> _____ end _coef_table_header.Macr
> 0
>      = .title2 = ``````
>      -
>      - if `is_areg' {
>      = if 0 {
>          local absvar = abbrev("`e(absvar)", 22)
>          .title2 = "Absorbed variable: {res:`absvar'}"
>      }
>      - if `prop_pushtitle' {
>      = if 0 {
>          if `is_svy' & ("`cmd'" == "clogit" | "`cmd'" == "xtmlog
> it" | "`cmd2'" == "xtmlogit") {
>              }
>              else if `is_stintcox' | `is_bmareg' {
>                  .PushLeft ```.title`````
>                  .PushLeft ```.title2`````
>                  .title = ``````
>                  .title2 = ``````
>              }
>              else {
>                  .PushLeft ```.title`````
>                  if `is_areg' {
>                      .PushLeft ```.title2`````
>                  }
>                  .title = ``````
>                  .title2 = ``````
>              }
>          }
>      }

```

```

- if `.`prop_groupvar' | `.`is_gsem_group' {
= if 0 | 0 {
    local groupvar `""`Macro groupvar"""
    if (`"`groupvar""' != "" & `.`is_stintcox') {
        local s = cond(`:word count `groupvar'">1, "s", "")
        local grpvar = abbrev(`groupvar', `.`ablen')
        .PushLeft "Strata variable`s': {res}`grpvar"
    }
    else if `"`groupvar""' != "" {
        local grpvar = abbrev(`groupvar', `.`ablen')
        .PushLeft "Grouping variable: {res}`grpvar"
    }
}
- if (`.`is_stintcox') {
= if (0) {
    .PushLeft ""
    local ndep = e(k_dv)
    if (`ndep'==2) {
        tokenize `e(depvar)'
        local ltime `1'
        local rtime `2'
        .PushLeft "Event-time interval:"
        .PushLeft " Lower endpoint: {res}`ltime"
        .PushLeft " Upper endpoint: {res}`rtime"
        if "`e(strata)' != "" {
            .PushLeft ""
        }
    }
    else {
        .PushLeft "ID variable: {res}`e(id)"
        .PushLeft "Examination time: {res}`e(depvar)"
        .PushLeft "Status indicator: {res}`e(status)"
    }
}
- if `.`is_svy' {
= if 0 {
    .BuildLeft4svy
}
- else if `.`is_prefix' {
= else if 0 {
    if !`.`is_margins' {
        .Build4strata
    }
}
- if (`.`is_tab' | `.`is_sum') & !missing(`.result'(N_stdize))
> {

```

```

= if (0 | 0) & !missing(e(N_stdize)) {
    .PushLeft "N. of std strata" " = " "as res" %`c2wfmt'.0fc
> `.`result'(N_stdize)
    }
    - .Build4tvar


---


> _____ begin _coef_table_header.Build4tva
> r _____
    - version 16
    - if `.`opt_tvar' == 0 {
        = if 1 == 0 {
            exit
        }
        - if "`Macro tvar'" == "" {


---


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


---


> _____ end _coef_table_header.Macr
> 0 _____
    = 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
- gettok tok rest : 0
- gettok eq rest : rest
- gettok dias rest : rest
- if `:length local rest' {
= if 12 {
- local direst = ustrltrim(`: di `rest'')
= local direst = ustrltrim("      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.PushRigh
> t _____
- }
- if `.`is_demandn' {
= if 0 {
if (e(N_estat_dsys)==.|`e(N_estat_dsys)`"==") {
.PPushRight "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')
    }
}
- if `is_bacon' {
= if 0 {
    .PushLeft "ATET" " = " "as res" %`c2wfmt'.0g `e(atet)'
    .PushRight "Number of groups" " = " "as res" %`c4wfmt'.0f

```

```

> c `e(N_groups)'
      .PushRight "Number of cohorts" " = " "as res" %`c4wfmt'.0
> fc `e(N_timing)'
}
- if `is_bmareg' {
= if 0 {
    local heredlab = proper(`e(heredity)')
    .PushLeft "`e(sampling_lab)'"
    if "`heredlab'" != "" {
        .PushLeft "Heredity: {txt}`heredlab'"
        if !missing(e(burnin)) {
            .PushLeft ""
        }
    }
    else if !missing(e(burnin)) {
        .PushLeft ""
        .PushLeft ""
    }
    .PushLeft ""
    .PushLeft "Priors:"
    .PushLeft " Models: {txt}`e(mprior_lab)'"
    .PushLeft " Cons.: Noninformative"
    .PushLeft " Coef.: Zellner's g"
    .PushLeft " g: {txt}`e(gprior_lab)'"
    .PushLeft " sigma2: Noninformative"
    if !missing(e(burnin)) {
        .PushLeft
        .PushLeftRalign "{help j_bmaregress_sampcorr:Sampling corr
> elation}" " = " "as res" %`c4wfmt'.4f e(sampcorr)
    }
    .PushRight "No. of obs" " = " "as res" %`c4wfmt'.0fc `Sc
> alar N'
      .PushRight "No. of predictors" " = " "as res" %`c4wfmt'.0
> fc e(p)
      .PushRightRalign "Groups" " = " "as res" %`c4wfmt'.0fc e(
> p_groups)
      .PushRightRalign "Always" " = " "as res" %`c4wfmt'.0fc e(
> p_always)
      .PushRight "No. of models" " = " "as res" %`c4wfmt'.0fc e
> (k_models)
      .PushRightRalign "For CPMP >= .9" " = " "as res" %`c4wfmt
> '.0fc e(k_models_cpmp)
      .PushRight "Mean model size" " = " "as res" %`c4wfmt'.3f
> e(msize_mean)
      if !missing(e(burnin)) {
        .PushRight "Burn-in" " = " "as res" %`c4wfmt'.0fc e(burni

```

```

> n)
      .PushRight "MCMC sample size" " = " "as res" %`c4wfmt'.0f
> c e(mcmcsize)
      .PushRight "Acceptance rate" " = " "as res" %`c4wfmt'.4f
> e(arate)
}
else {
if "`heredlab'" != "" {
.PushRight
}
.PushRight
}
if !missing(e(shrinkage)) {
.PushRight "Shrinkage, g/(1+g)" " = " "as res" %`c4wfmt'.
> 4f e(shrinkage)
}
else {
.PushRight ""
}
if (e(sigma2) < 1e-3) {
local sigfmt 8.4g
}
else {
local sigfmt `c4wfmt'.3f
}
.PushRight "Mean sigma2" " = " "as res" %`sigfmt' e(sigma2
> )
}
- if `is_htedid' {
= if 0 {
.PushRight "Number of panels" " = " "as res" %`c4wfmt'.0f
> c e(N_panels)
}
- if !missing(`Scalar N_sub') & `is_stintcox' {


---


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


---


> _____ end _coef_table_header.Scala
> r _____
= if !missing(.) & 0 {
.PushRight "Number of subjects" " = " "as res" %`c4wfmt'.
> 0fc `Scalar N_sub'

```

```

        }
- if `.`is_areg' {
= if 0 {
    .PushRight "No. of categories" " = " "as res" %`c4wfmt'.0
> fc e(k_absorb)
        }
- if `.`is_sem' | `.`is_gsem_group' {
= if 0 | 0 {
    if `""Macro groupvar""' != "" {
        .PushRight "Number of groups" " = " "as res" %`c4wfmt'.0f
> c `.`Scalar N_groups'
        }
        }
- if `.`is_sem' & !`.`is_svy' {
= if 0 & !0 {
    .PushLeft `"Estimation method: {res:`.Macro method'}"'
        }
- if `.`prop_selected' {
= if 0 {
    .Build4selected
        }
- if `.`is_svy' {
= if 0 {
    .BuildRight4svy
        if `.`prop_censored' {
            .PushRight
            .Build4censobs "header"
            .PushRight
        }
        }
- else {
- if `.`is_margins' {
= if 0 {
    .Build4subpop
        }
- if `.`prop_isselected' {
= if 0 {
    .Build4title
    .Build4isselected
        }
- if `.`prop_censored' {
= if 0 {
    .Build4title
    .Build4censobs
        if !`.`is_prefix' {
            .PushRight

```

```

        }
    }
- .Build4cluster


---


> _____ begin _coef_table_header.Build4cluste
> r _____
    - version 16
    - if `is_multclust' {
    = if 0 {
        .Build4mclust
        exit
    }
    - if missing(`Scalar N_clust') {



---


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



---


> _____ end _coef_table_header.Scala
> r _____
    = if missing(.) {
    - exit



---


> _____ end _coef_table_header.Build4cluste
> r _____
    - .Build4reps


---


> _____ begin _coef_table_header.Build4rep
> s _____
    - version 16
    - if !missing(`Scalar N_reps') {



---


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



---


> _____ end _coef_table_header.Scala
> r _____
    = if !missing(.) {
        .PushRight "Replications" " = " "as res" %`c4wfmt'.0fc
> `Scalar N_reps'
        if `prop_censored' & !`is_svy' {

```

```

        .PushRight
    }
}



---


> _____ end _coef_table_header.Build4rep
> s _____
- }
- if `.`prop_groups' {
= if 0 {
    .Build4groups
}
- if `.`is_stintcox' & "`e(strata)'" != "" {
= if 0 & "" != "" {
    if `ndep' == 2 {
        .PushRight
    }
}
- .Build4modeltest



---


> _____ begin _coef_table_header.Build4modeltes
> t _____
- version 16
- if "`result'" != "e" {
= if "e" != "e" {
    exit
}
- if `.`opt_modeltest' == 0 {
= if 1 == 0 {
    exit
}
- if ```Macro k_eq_model''' == "0" {



---


> _____ begin _coef_table_header.Macr
> o _____
- version 16
- class exit ```.result`(`0')```
= class exit ``1``



---


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



---


> _____ begin _coef_table_header.Scala

```

```

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

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

-----
> ----- begin _coef_table_header.Macr
> o -----
    - version 16
    - class exit `".result`(`0')`"
= class exit `"239.6035708426407`"

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

-----
> ----- end _coef_table_header.Macr
> o -----
    = if `"239.6035708426407`" != "" | `""` == "" {
      - .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(" 239.60")
        - .ralignr = max(`.ralignr', udstrlen(`direst"))
        = .ralignr = max(3, udstrlen("239.60"))
        - local len : di ``tok``
        = local len : di ``Wald chi2({res:8})``
        - local len : smcllength 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 `lalignr`:`239.60`}"
      - }
      - 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
    - gettok tok rest : 0
    - gettok eq rest : rest
    - gettok dias rest : rest
    - if `:length local rest' {
    = if 15 {
        - local direst = ustrltrim(`: di `rest```)
        = local direst = ustrltrim(" 0.1119")
        - .ralignr = max(`.ralignr', udstrlen(`direst`))
        = .ralignr = max(6, udstrlen("0.1119"))
        - local len : di ```tok```
        = local len : di ``"Pseudo R2``
        - local len : smclength local len
        - .lalignr = max(`.lalignr', `len')
        = .lalignr = max(13, 9)
        - .right.Arrpush `\`C3' ``{lalign `\`lalignr':`tok'}'' \
> `.C4' ``eq'' `dias' ``{ralign `\`ralignr':`direst'}''
        = .right.Arrpush `\`C3' ``{lalign `lalignr':Pseudo R2}'''
> `.C4' " = " as res ``{ralign `ralignr':0.1119}"
    - }
    - else if `:length local tok' {
    = else if 9 {
        .right.Arrpush `\`C3' ```tok```
    }
    - else {
        .right.Arrpush
    }

```

---

```

> _____ end _coef_table_header.PushRight
> t _____
  - }
  - if !missing(e(r2_a)) {
    .PushRight "Adj R-squared" " = " "as res" %`c4wfmt'.4f
> e(r2_a)
  }
  - if !missing(e(rmse)) {
    .PushRight "Root MSE" " = " "as res" %`c4wfmt'.4f e(rms
> e)
  }



---


> _____ end _coef_table_header.Build4r
> 2 _____
  - .Build4title



---


> _____ begin _coef_table_header.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 : smcllength local title
  - local len2 : smcllength local title2
  - if `len2' > `len' {
  = if 0 > 28 {
    local len = `len2'
  }
  - if `len' < (`c3' - 2) - (`c1' - 1) {
  = if 28 < (49 - 2) - (1 - 1) {
    - PushLeft `""'.title"""
    = PushLeft `Negative binomial regression'"'

```

---

---

```

> _____ begin _coef_table_header.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 : smcllength local direst
        .ralignl = max(`.ralignl', `len')
        local len : di `""`tok"""
        local len : smcllength 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.PushLef
> 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(`"-367.8875838835854"') & !miss
> ing(`log pseudolikelihood')
- if inlist(``e(dispers)'', "mean", "constant") {
= if inlist("mean", "mean", "constant") {
- if `hascrit' {
= if 1 {
- local ++offset
- local crtype ``e(crittype)''
= local crtype `log pseudolikelihood''
- local clen : length local crtype
- .c2 = `clen' + 2
= .c2 = 20 + 2
- }
- local didisp = 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("-367.88758")
        - 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 \`lalignla':`dires'"'
= .left.Arrpush `\`C1' `"\{lalign \`lalignla':Log pseudoli
> kelihood}"' `\`C2a' " = " as res "{ralign \`lalignla':-367.88758}"
- }
- 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
    = __00007.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 6:239.60}"
                                         Wald chi2(8) = 239.60
      - }
      - 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}"
                                         Prob > chi2 = 0.0000
Dispersion: mean
      - }
      - display as smcl as txt `.left[`i']' as txt `.right[`i']'
_____
> _____ begin _coef_table_header.C
> 1 _____
      - version 16
      - class exit `"_col(`.c1')"''
      = class exit `"_col(1)"'
_____
```

```

> _____ end _coef_table_header.C
> 1 _____
> _____ begin _coef_table_header.C2
> a _____
    - version 16
    - class exit `"_col(`.c2a')"''
    = class exit `"_col(21)"'

> _____ end _coef_table_header.C2
> a _____
> _____ begin _coef_table_header.C
> 3 _____
    - version 16
    - class exit `"_col(`.c3')"''
    = class exit `"_col(57)"'

> _____ end _coef_table_header.C
> 3 _____
> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"''
    = class exit `"_col(70)"'

> _____ end _coef_table_header.C
> 4 _____
    = display as smcl as txt _col(1) `'{lalign 20:Log pseudolikelihood
> likelihood}`` _col(21) " = " as res "{ralign 10:-367.88758}" as txt _col(57) `'{
> lalign 13:Pseudo R2}`` _col(70) " = " as res "{ralign 6:0.1119}"
Log pseudolikelihood = -367.88758 Pseudo R2 = 0.1119
    - }

> _____ 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') `fwwrap'"
            local fwwrap fwwrap(`wrap')
        }

```

```

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

```

---

```

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

```

---

```

> _____ end opts_exclusiv
> e _____
- if ("`rowmatrix'"'=="" & "`norowci'"!="") {
= if ("'"'=="" & ""!= "") {
    di as err "{bf:norowci} requires {bf:rowmatrix()}"
    exit 198
}
- if ("`dftable'"'!= "" & "`norowci'"!="") {
= if ("'"!= "" & ""!= "") {
    di as err "{bf:norowci} is not allowed with {bf:`dftable'}"

```

```

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



---


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



---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive "`first' `nofirst'"
    = opts_exclusive " "

```

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

```

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

```

---

```

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

```

---

```

> ----- begin _get_mcompar
> e -----
    - version 11
    - local cmd `""`e(cmd)`""
    = local cmd `""`nbreg``
    - syntax [name(name=caller)] [, *]
        - local is_pwc = inlist("pwcompare", `cmd`, `caller') |
> inlist("pwmean", `cmd`, `caller')
        = local is_pwc = inlist("pwcompare", `nbreg`, "") | inlist(
> pwmean", `nbreg", "")
        - local is_marg = inlist("margins", `cmd`, `e(cmd2)`, ``
> caller')
        = local is_marg = inlist("margins", `nbreg", "", "")
        - local OPTIONS NOADJust BONferroni DUNCAN DUNNnett SCHeffe S
> IDak SNK TUKey ADJustall

```

```

- if `is_pwc' {
= if 0 {
    syntax [name] [, `OPTIONS' MCOMParE(string) *]
}
- else {
- syntax [name] [, MCOMParE(string) *]
- local suboption mcompare()
- }
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `"""
- if `is_pwc' {
= if 0 {
    local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `s
> cheffe' `sidak' `snk' `tukey'
        local METHOD : list uniq METHOD
        opts_exclusive "`METHOD'"
        local ALL `adjustall'
        opts_exclusive "`noadjust' `ALL'"
        }
- local 0 `", `mcompare"""
= local 0 `", ""
- capture syntax [, `OPTIONS']
= capture syntax [, NOADJust BONferroni DUNCan DUNNett SChef
> fe SIDak SNK TUKey ADJustall]
- if c(rc) {
    di as err "invalid mcompare() option;"
    di as err "method `mcompare'" not allowed"
    error 198
}
- local METHOD `METHOD' `noadjust' `bonferroni' `duncan' `du
> nnett' `scheffe' `sidak' `snk' `tukey'
= local METHOD
- local METHOD : list uniq METHOD
- local ALL `ALL' `adjustall'
= local ALL
- local ALL : list uniq ALL
- opts_exclusive "`METHOD'" `suboption'
= opts_exclusive "" mcompare()



---


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

```

```

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


---


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


---


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

```

```

- exit


---


> _____ end opts_exclusiv
> e _____
- local EXCLUDE duncan dunnett snk tukey
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if `is_pwc' {
        local opt : copy local METHOD
    }
    else {
        local opt "mcompare(`METHOD')"
    }
    local cmdlist anova manova regress mvreg pwmean
    if "`cmd'" == "pwcompare" {
        local cmd `"`e(cmd_est)`"'
    }
    if `is_marg' {
        local cmd margins
    }
    if !`:list cmd in cmdlist' | !`is_pwc' {
        di as err `method `opt' is not allowed with results from
> `cmd`"
            exit 322
        }
        if `"`e(prefix)`"' == "svy" {
            di as err `method `opt' is not allowed with results using
> the svy prefix`"
            exit 322
        }
        local vce `"`e(vce)`"'
        if !inlist("`vce'", "", "ols") {
            di as err `method `opt' is not allowed with results using
> vce(`vce')`"
            exit 322
        }
        }
- local EXCLUDE duncan dunnett snk tukey scheffe
- if `:list METHOD in EXCLUDE' {
= if 0 {
    if "`ALL'" != "" {
        di as err `option adjustall is not allowed with method `M
> ETHOD`"
            exit 198
        }
    }

```

```

- sreturn local method `""`METHOD"""
= sreturn local method `"noadjust"""
- sreturn local adjustall `""`ALL"""
= sreturn local adjustall `"""

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

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

> _____ end opts_exclusiv
> e _____
- if "`method'" == "dunnett" {
= if "noadjust" == "dunnett" {
    opts_exclusive "`method' `groups"""
}
- _get_diopts diopts options, `options' `fwrap' `flabel'
= _get_diopts diopts options,
 

> _____ begin _get_diopt

```

```

> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options,
_____
> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE 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 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, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local diopts
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' `""`options"""
        = c_local options `"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1' `""`diopts"""
    = c_local 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 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 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` `fwwrap` `fwrapon` `fvlabel` `noci` `nopvalues` `markdown` `cotype` `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)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
      - opts_exclusive "`allbaselevels' `noallbaselevels'"
      = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____

```

```

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


---


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


---


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


---


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


---


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

```

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

```

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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____

```

```

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

```

---

```

> _____ begin opts_exclusiv
> e _____

```

```

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

```

```

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


---


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


---


> _____ end _get_diopts.Wrapo
> n _____
        - if ```fvrap''' != "" {
        = if "" != "" {
            FVWrap, `fvrap'
        }
        - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> `are' `fvrap' `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``
    - }

> _____ 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
> 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 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 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 ``fvlabel' `nofvlabel''
= opts_exclusive " "
```

---

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

---

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


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

```

```

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

```

---

```

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

```

```

syntax [, WOrd WIth]
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
    gettokent item`n' opts : opts, bind

```

```

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


---


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


---


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



---


> _____ end _get_diopt
> s _____
- local cformat ```s(cformat)'''
= local cformat `"""
- local sformat ```s(sformat)'''
= local sformat `"""
- local pformat ```s(pformat)'''
= local pformat `"""
- _get_eformopts , eformopts(`options') allowed(_all_) soptions
> ons
= _get_eformopts , eformopts() allowed(_all_) soptions



---


> _____ begin _get_eformopt
> s _____
- version 8.0
- syntax [, eformopts(string asis) soptions ALLOWed(string)
> ]
- local 0 , `eformopts'
= local 0 ,
- local EFALL NOHR hr NOSHR shr or IRR RRr TRatio
- if "`soptions'" != "" {
= if "soptions" != "" {
- syntax [, EForm1(passthru) EForm `EFALL' * ]
= syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR
> RRr tr TRatio * ]
- local opts ```options''''
= local opts `"""
- local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or'
> `irr' `rrr' `tr' `tratio'

```

```

= local 0 ,
-
- }
- if "`allowed'" == "__all__" {
= if "__all__" == "__all__" {
- local allowed `EFALL'
= local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
-
- }
- foreach ef of local allowed {
- capture confirm name `ef'
= capture confirm name NOHR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef")'
= local efopts nohr
-
- }
- capture confirm name `ef'
= capture confirm name hr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef")'
= local efopts nohr hr
-
- }
- capture confirm name `ef'
= capture confirm name NOSHR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef")'
= local efopts nohr hr noshr
-
- }
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower("`ef")'
= local efopts nohr hr noshr shr
-
- }
- capture confirm name `ef'
= capture confirm name or

```

```

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

```

```

> r tr TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- 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
-sif `eform1' != "" {
=sif `' != "" {
    sreturn local eform eform(`eform1')
}
-selse sreturn local eform ""
-sreturn local eform_cons_ti `eform_cons_ti'
=sreturn local eform_cons_ti
-sreturn local eform_cons_note `eform_cons_note'
=sreturn local eform_cons_note
-sreturn local eform_cons_ti2 `eform_cons_ti2'
=sreturn local eform_cons_ti2

```

---

```

> _____ end _get_eformopt
> s _____
- local tr_item = ```s(eform_cons_note)`"""
= local tr_item = `"""
- if inlist(``bmatrix`", "", "e(b)") & ```e(k_eform)`"" == "0" {
= if inlist("", "", "e(b)") & "" == "0" {
    local eform
}
- else local eform ```s(str)`"""
= else local eform `"""
- local eform_cons_ti ```s(eform_cons_ti)`"""
= local eform_cons_ti `"""
- local eform_cons_ti2 ```s(eform_cons_ti2)`"""
= local eform_cons_ti2 `"""
- if (``e(consonly)`"!="1" | ```eform_cons_ti`""=""") {
= if ("0"!="1" | `"""=""") {
- local eformdi ```s(str)`"""
= local eformdi `"""
- }
- else {
    local eformdi ```eform_cons_ti`"""
    local tr_item = cond(missing(``eform_cons_ti2`"), strlower(``eform_cons_ti`"), ```eform_cons_ti2`")
}
- local coefttl = cond(``eform`""=""", ```coeftitle`""", `"""
= 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(string
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
      - if `dof' == "" & `e(df_r)' != "" {
      = if `"' == "" & `"' != "" {
          capture confirm integer number `e(df_r)'
          if !c(rc) {
              local gdof dof(`e(df_r)')
          }
          capture
      }
      - else local gdof `dof'
      = else local gdof `"'
      - local glevel `level'
      = local glevel 95
      - local lopt level(`glevel')
      = local lopt level(95)
      - if (`diparm' == "") exit
      = if (`"' == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s
      - local 0 `", `diparmopts"'
      = local 0 `", ""
      - local diparmopts
      - local k 0
      - syntax [, diparm(string asis) * ]
      - while `diparm' != "" {
      = while `"' != "" {
          local ++k
          local single 1
          local after
          capture _on_colon_parse `diparm'
          if !c(rc) {
              local single 0
              local diparm `s(before)'
              local after `s(after)'
          }
          capture
          SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `gopt
> ions'
      local diparm`k' `diparm"'
      local diparmopts `diparmopts' : `diparm"'

```

```

if `single' | `":list retok after'"' == "" {
local 0 `", `options'"
syntax [, diparm(string asis) * ]
}
else {
local diparm `":after'"
}
}
- if `":options'"' == "" {
= if `"' == "" {
- syntax [, diparm(string asis) ]
- }
- if (`execute'" == "") {
= if (`"' == "") {
- sreturn clear
- sreturn local options `":options'"
= sreturn local options `"'
- sreturn local diparm `":diparmopts'"
= sreturn local diparm `"'
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `":diparm`i'"'
}
- sreturn local k `k'
= sreturn local k 0
- exit
}



---


> _____ end _get_diparmopt
> s _____
- local NODIPARM : length local nodiparm
- if `NODIPARM' {
= if 0 {
    local options
}
- local GTOPTS parse(":") bind quotes
- local k 0
- if !`NODIPARM' {
= if !0 {
- if `":e(diparm)"' != "" {
= if `"' != "" {
    local i 0
    local diparm `":e(diparm)"'
}
- else if `":e(diparm1)"' != "" {
= else if `":lnalpha, exp label("alpha)"' != "" {
- local i 1

```

```

- local diparm `""`e(diparm1)"""
= local diparm `"

```

```

        while `:length local rest' {
            local ++k
            local diparm`k' : copy local diparm
            gettoken COLON rest : rest, `GTOPTS'
            gettoken diparm rest : rest, `GTOPTS'
        }
        local ++k
        local diparm`k' : copy local diparm
        local 0 `", `options``'
        syntax [, diparm(string asis) *]
    }
}
-
- if "`markdown'" != "" {
= if "" != "" {
    local lsize = c(linesize)
    set linesize 255
}
-
`vv' mata: _coef_table()
= version 12, missing: mata: _coef_table()



---


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


---


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

```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

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


---

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


---

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


---

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


---

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

```

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

```

```

        local cformat `cformat(`cformat')'''
    }
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat'''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat''''
    local sformat `sformat(`sformat')'''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat'''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat''''
    local pformat `pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 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' `lstretch' `
> `coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> `are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> `bbrev'
    = c_local diopts
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' ```options'''
        = c_local options `"""
    - }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare 
```

```

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


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1` `""`diopts"""
    = c_local __000007 `"""
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname' = s(`sname')
    = local S_level = s(level)
    - }
    - local S_`sname' = s(`sname')
    = local S_k = s(k)
    - }
    - sreturn clear
    - GetDiopts DEFAULT


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____

```

```
- opts_exclusive ``omitted' `noomitted''  
= opts_exclusive " "  


---



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


---



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


---



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


---



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


---



> _____ begin opts_exclusiv


```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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


---


> _____ begin _get_diopts.GetDiopt
> s _____

```

```

    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv

```

```

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

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

```

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

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

```

```

= Wrapon ,


---


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


---


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


---


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


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `

```

```

> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `fvlabel` `noci` `nopvalues` `markdown` `citype` `a
> bbrev'
      = c_local DUPs
      - if `K' == 2 {
      = if 1 == 2 {
          c_local `c_opts' `""`options"""
          }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
      - }
      - else {
          GetDiopts DUPs options, `options'
          c_local `name2' `""`options"""
          }
      - local DUPs : list DUPs - DEFAULT
      - gettoken DUPs : DUPs
      - if `""`DUPs""' != ""' {
      = if `""' != ""' {
          if (strpos(`""`DUPs""', "(")) {
              gettoken DUPs : DUPs, parse("(")
              local DUPs `""`DUPs'()"'
              }
          di as err "duplicate {bf:`DUPs'} option not allowed"
          exit 198
          }
      - sreturn clear
      - foreach sname of local snames {
      - sreturn local `sname' = `""`S_`sname""'
      = sreturn local level = `""95""'
      - }
      - sreturn local `sname' = `""`S_`sname""'
      = sreturn local k = `""0""'
      - }


---


> _____ end _get_diopt
> s _____

```

---

```

> _____ begin _dipar
> m _____
  - version 11
  - if _caller() < 8.2 {
    _diparm_8 `0'
    exit
  }
  - syntax anything(name=eqs) [, Level(cilevel) NOTAB DOF(pass
> thru) BMATrix(passthru) VMATrix(passthru) DFMATrix(passthru) COEFLegend SELE
> GEND * ]
  - tempname T
  - if `:length local notab' {
  = if 5 {
  - .`T' = ._b_diparm.new, level(`level') `dof' `bmatrix' `vma
> trix' `dfmatrix' `coeflegend' `selegend'
  = .__000008 = ._b_diparm.new, level(95)
  -class _b_diparm {
    -      string LEVEL      = ""
    -      double IS_MI      = 0
    -      string BMAT       = ""
    -      string COLNA     = ""
    -      string VMAT       = ""
    -      string DFMAT     = ""
    -      string COLFUL    = ""
    -      double DF         = 0
    -      double DF_HOLD   = 0
    -      double EXTRA     = 1
    -      string METHOD    = ""
    -      double has_b     = 0
    -      double has_v     = 0
    -      double has_df    = 0
    -      double has_Cns   = 0
  -}
  _____ begin _b_diparm.ne
> w _____
  - version 11
  - .IS_MI = `"\`e(mi)""' == "mi" & `"\`e(df_mi)""' == "matrix"
> "
  = .IS_MI = `""' == "mi" & `""' == "matrix"
  - if `._IS_MI' {
  = if 0 {
    local ALTOPT DFMATrix(string)
  }
  - syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VM

```

---

```

> ATrix(string) EXTRA(real 1) MCOMPARE(passthru) `ALTOPT' ]
      = syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VM
> ATrix(string) EXTRA(real 1) MCOMPARE(passthru) ]
      - _get_mcompare, `mcompare'
      = _get_mcompare,


---


> _____ begin _get_mcompar
> e _____
      - version 11
      - local cmd ```e(cmd)''
      = local cmd ``nbreg''
      - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", ``cmd'', ``caller''
> ) | inlist("pwmean", ``cmd'', ``caller'')
      = local is_pwc = inlist("pwcompare", "nbreg", "") | inli
> st("pwmean", "nbreg", "")
      - local is_marg = inlist("margins", ``cmd'', ```e(cmd2)''
> , ``caller'')
      = local is_marg = inlist("margins", "nbreg", "", "")
      - local OPTIONS NOADJust BONferroni DUNCan DUNNett SChef
> fe SIDak SNK TUKey ADJustall
      - if `is_pwc' {
      = if 0 {
          syntax [name] [, `OPTIONS' MCOMPaRe(string) *]
          }
      - else {
          syntax [name] [, MCOMPaRe(string) *]
          - local suboption mcompare()
          }
      - sreturn clear
      - sreturn local options ```options''
      = sreturn local options `"""
      - if `is_pwc' {
      = if 0 {
          local METHOD `noadjust' `bonferroni' `duncan' `dunnett
> ' `scheffe' `sidak' `snk' `tukey'
          local METHOD : list uniq METHOD
          opts_exclusive ``METHOD''
          local ALL `adjustall'
          opts_exclusive ``noadjust' `ALL''
          }
      - local 0 `", `mcompare''''
      = local 0 `", `"
      - capture syntax [, `OPTIONS']
      = capture syntax [, NOADJust BONferroni DUNCan DUNNett S
> CHeffe SIDak SNK TUKey ADJustall]

```

```

- if c(rc) {
  di as err "invalid mcompare() option;"
  di as err "method ``mcompare'' not allowed"
  error 198
}
- local METHOD `METHOD' `noadjust' `bonferroni' `duncan'
> `dunnett' `scheffe' `sidak' `snk' `tukey'
= local METHOD
- local METHOD : list uniq METHOD
- local ALL `ALL' `adjustall'
= local ALL
- local ALL : list uniq ALL
- opts_exclusive "`METHOD'" `suboption'
= opts_exclusive "" mcompare()



---


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



---


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

```

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

```

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



---


> _____ end _get_mcompar
> e _____
    - if !inlist(``s(method)`", "noadjust", "bonferroni", "sid
> ak") {
        = if !inlist("noadjust", "noadjust", "bonferroni", "sidak"
> ) {
            di as err "option `mcompare' not allowed"
            exit 198
        }
    - .METHOD = `s(method)`
    = .METHOD = "noadjust"
    - .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:stky_pr_rotemberg y_timing_max:wlth y_timing_max:stky_pr_c
> alvo y_timing_max:ln_neq y_timing_max:open y_timing_max:wg_ndx 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

```

---

```

> ----- begin _b_diparm.Chk4PosIn
> t -----
  - version 11
  - args ename
  - if `e(`ename')' != "" {
  = if '""' != "" {
    capture confirm integer number `e(`ename')'
    if !c(rc) {
      if `e(`ename')' > 0 {
        c_local `ename' `e(`ename')
      }
    }
  }

----- end _b_diparm.Chk4PosIn
> t -----
  - if `df_r' {
  = if 0 {
    .DF = `df_r'
  }
  - }
  - else {
    .DF = `dof'
  }
  - if `extra' > 1 {
  = if 1 > 1 {
    .EXTRA = `extra'
  }

----- end _b_diparm.ne
> w -----
  - `T'.compute `eqs', `options'
  = __000008.compute lnalpha, exp

----- begin _b_diparm.comput
> e -----
  - version 11
  - version 11
  - syntax anything(name=EQS id="equation name(s)") [, NOPro
> b Prob EXP TANH ILOGIT INVLOGIT Function(str) Derivative(str) CI(string) ]
  - opts_exclusive "`prob' `noprob'"
  = opts_exclusive " "

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

```

```

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


---


> _____ end opts_exclusiv
> e _____
- local prob `prob' `noprob'
= local prob
- if ``ilogit``invlogit'' != "" {
= if "" != "" {
    local ilogit ilogit
}
- local builtin `exp' `tanh' `ilogit'
= local builtin exp
- local fd 0
- if `:length local function' {
= if 0 {
    local ++fd
}
- if `:length local derivative' {
= if 0 {
    local ++fd
}
- if `fd' == 1 {
= if 0 == 1 {
    di as err "both function() and derivative() must be spec
> ified"
        exit 198
}
- if `fd' {
= if 0 {
    local fopt "function()"
}
- opts_exclusive ``builtin' `fopt''
= opts_exclusive "exp "


---


> _____ begin opts_exclusiv

```

```

> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts exp
    - local n 0
    - while `""`opts""' != "" {
    = while `""`exp""' != "" {
    - local ++n
    - gettoken item`n' opts : opts, bind
    = gettoken item1 opts : opts, bind
    - }
    - while `""`opts""' != "" {
    = while `""`' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 1 < 2 {
    - exit
    -----
> ----- end opts_exclusiv
> e -----
    - if `.`has_b' {
    = if 0 {
    local bmat `""`BMAT""'
    }
    - else {
    - local bmat `""`e(b)""'
    - }
    - foreach EQ of local EQS {
    - if substr(`""`EQ""',1,1) != "/" {
    = if substr(`""`lnalpha""',1,1) != "/" {
    - local eq `""`/`EQ""'
    = local eq `""`/`lnalpha""'
    - }
    - else local eq : copy local EQ
    - local el : colnumb `bmat' `eq''
    = local el : colnumb e(b) `/lnalpha"
    - if inlist(`""`el""', "", ".") {
    = if inlist(`""`10""', "", ".") {
        di as err "parameter named {bf:`EQ'} not found"
        exit 322
    }
    - local eqs `eqs' `eq'
    = local eqs `/lnalpha

```

```

- }
- local neq : list sizeof eqs
- if `has_Cns' {
= if 0 {
    tempname Cns C
    matrix `Cns' = e(Cns)
}
- if `neq' != 1 {
= if 1 != 1 {
    local el 0
}
- if `IS_MI' {
= if 0 {
    if `has_df' {
        local df = el(`DFMAT',1,`el')
    }
    else {
        local df = el(e(df_mi),1,`el')
    }
    if missing(`df') {
        local df 0
    }
}
- else {
- local df = `DF'
= local df = 0
- }
- tempname z alpha
- scalar `alpha' = (100 - `LEVEL')/100
= scalar __00000A = (100 - 95)/100
- mata: st_numscalar("`z'", _mc_crit(`METHOD', `df' ==
> 0 ? . : `df', st_numscalar("`alpha'"), ., `EXTRA'))
= mata: st_numscalar("__000009", _mc_crit("noadjust", 0 ==
> 0 ? . : 0, st_numscalar("__0000A"), ., 1))
- local isCns 0
- if `neq' == 1 {
= if 1 == 1 {
- tempname b se
- if `has_b' {
= if 0 {
    scalar `b' = el(`BMAT',1,`el')
    if `has_v' {
        scalar `se' = sqrt(el(`VMAT',`el',`el'))
    }
    else {
        scalar `se' = 0
}

```

```

        }
    }
- else {
- scalar `b' = _b[`eqs']
= scalar __00000B = _b[/lnalpha]
- if "`e(V)'" == "matrix" {
= if "matrix" == "matrix" {
- scalar `se' = _se[`eqs']
= scalar __00000C = _se[/lnalpha]
- }
- else {
    scalar `se' = 0
}
- if `.has_Cns' & `se' == 0 {
= if 0 & __00000C == 0 {
    matrix `C' = `Cns'[1...,`el']
    matrix `C' = `C'*`C'
    local isCns = `C'[1,1] != 0
}
- }
- if `se' == 0 {
= if __00000C == 0 {
    scalar `se' = .
}
- if "`function'" != "" {
= if "" != "" {
    .Function `b' `se' `z' "`function'" "`derivative'"
}
- else if "`builtin'" != "" {
= else if "exp" != "" {
- .builtin`b' `se' `z'
= .exp __00000B __00000C __000009

```

---

```

> _____ begin _b_diparm.ex
> p _____
        - version 11
        - args b se z
        - return scalar est = exp(`b')
= return scalar est = exp(__00000B)
        - return scalar se = return(est)*`se'
= return scalar se = return(est)*__00000C
        - return scalar lb = exp(`b'-`z'*`se')
= return scalar lb = exp(__00000B-__000009*__00000C)
        - return scalar ub = exp(`b'+`z'*`se')
= return scalar ub = exp(__00000B+__000009*__00000C)
        - return scalar i = 0

```

---

```

> _____ end _b_diparm.ex
> p _____
  - }
  - else {
    if ("`prob'" != "noprob") local prob prob
      .identity `b' `se' `z' `el' ``ci''
    }
  - }
  - else {
    .Multiple ``eqs'' `z' ``function'' ``derivative'' ``ci''
    local isCns = r(cns)
  }
  - .AddTest `df', `prob'
= .AddTest 0,

```

---

```

> _____ begin _b_diparm.AddTes
> t _____
  - version 11
  - syntax anything(name=df) [, Prob]
  - return add
  - if ``prob'' == "" {
= if "" == "" {
  - return scalar p = .
  - return scalar z = .
  - exit

```

---

```

> _____ end _b_diparm.AddTes
> t _____
  - return add
  - if `df' == 0 {
= if 0 == 0 {
  - return scalar df = .
  - }
  - else return scalar df = `df'
= else return scalar df = 0
  - return scalar crit = `z'
= return scalar crit = __000009
  - return scalar cns = `isCns'
= return scalar cns = 0

```

---

```

> _____ end _b_diparm.comput
> e _____
  - exit

```

---

```

> _____ end _dipar

```

```

> m -----
> -----
>   y_timing_max | Coefficient  std. err.      z    P>|z|    [95% conf. inte
> rval]
> -----
>   cb_authors_ext | .363316   .0902553   4.03  0.000   .1864188   .54
> 02132
>   estimated | .4273704   .1119891   3.82  0.000   .2078757   .6
> 46865
> stky_pr_rotemberg | -1.217058   .1376119  -8.84  0.000  -1.486772  -.94
> 73436
>   wlth | -.3315239   .1111373  -2.98  0.003  -.549349  -.11
> 36987
>   stky_pr_calvo | -.6927586   .1306302  -5.30  0.000  -.9487891  -.4
> 36728
>   ln_neq | .1749872   .0799804   2.19  0.029   .0182285   .3
> 31746
>   open | -.4167482   .1492068  -2.79  0.005  -.7091881  -.12
> 43082
>   wg_ndx | .21814     .1262814   1.73  0.084  -.0293669   .4
> 65647
>   _cons | .4192095   .2658304   1.58  0.115  -.1018084   .94
> 02275
> -----
>   /lnalpha | -2.444486   .8650433          -4.13994  -.74
> 90323
> -----
>   alpha | .0867707   .0750604          .0159238   .47
> 28239
> -----
>
>   - if "`markdow'" != "" {
>   = 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 stky_pr_rotemberg wlth stky_pr_calvo ln_neq  open wg_ndx  if y_tim
> ing_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_sim.smcl
  log type: smcl
  closed on: 9 May 2025, 13:21:28
```

---