

---

```
name: <unnamed>
log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/y_timing_max_frics_det.smcl
log type: smcl
opened on: 9 May 2025, 13:21:32
- capture ! rm ./output/stepwise_regressions/`depvar'_`type'.pdf
= capture ! rm ./output/stepwise_regressions/y_timing_max_frics_det.pdf
- di "*****"
> ****
- di "Outcomes of bi-directional stepwise regressions with `depvar' with rul
> e fixed effects"
= di "Outcomes of bi-directional stepwise regressions with y_timing_max with
> rule fixed effects"
Outcomes of bi-directional stepwise regressions with y_timing_max with rule fi
> xed effects
- di "Independent Variable set: `type'"
= di "Independent Variable set: frics_det"
Independent Variable set: frics_det
- di "*****"
> ****
- ${reg_`depvar'_`type'}
= nbreg y_timing_max wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_
> calvo open if y_timing_max<60 , vce(r)


---


> _____ begin nbre
> g _____
- if _by() {
  local BY `by `_byvars`_byrc0:''
}
- `BY' _vce_parserun nbreg, mark(Exposure OFFset CLuster) : `0'
= _vce_parserun nbreg, mark(Exposure OFFset CLuster) : y_timing_max wl
> h wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open if y_timing_ma
> x<60 , vce(r)


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> _____ 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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> wlth wg_ndx_mult    stky_pr_rotemberg wg_ndx  stky_pr_calvo open  if y_timing
> _max<60 , vce(r)


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> _____ 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 wlth wg_ndx_mult stky_pr_ro
> temberg wg_ndx stky_pr_calvo open if y_timing_max<60 , vce(r)'' != "" {
    - gettoken COLON after : after, parse(":") bind match(par) quotes
    - if ``par'' != "" {
    = if "" != "" {
        local before `before' (`COLON')
        local COLON
    }
    - else if ```COLON''' != ":" {
    = else if `":' != ":" {
        local before ```before' `COLON'''"
        local COLON
    }
    - }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while `":' != ":" & `": y_timing_max wlth wg_ndx_mult stky_pr_ro
> temberg wg_ndx stky_pr_calvo open if y_timing_max<60 , vce(r)'' != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if ``par'' != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if ```COLON''' != ":" {
        local before ```before' `COLON'''"
        local COLON
    }
    }

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- 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 wlth wg_ndx_mult stky_pr_rot
> emberg wg_ndx stky_pr_calvo open if y_timing_max<60 , vce(r)"

> _____ end _on_colon_pars
> e _____
    - local ZERO `"`s(before)`"""
    = local ZERO `nbreg, mark(Exposure OFFset CLuster) """
    - local 0 `"`s(after)`"""
    = local 0 `y_timing_max wlth wg_ndx_mult stky_pr_rot emberg wg_ndx
> stky_pr_calvo open if y_timing_max<60 , vce(r)"
    - quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(stri
> ng asis) VCE1(string asis) LRMODEL * ]
        - if `"`vce`"" == """
        = if `"`r`"" == """
            MYRESULT
            exit
        }
        - local AFTER `"`0`"""
        = local AFTER `y_timing_max wlth wg_ndx_mult stky_pr_rot emberg wg_
> ndx stky_pr_calvo open if y_timing_max<60 , vce(r)"
        - local 0 `"`ZERO`"""
        = local 0 `nbreg, mark(Exposure OFFset CLuster) """
        - syntax name(name=caller id="calling command name") [, WTYPES(string) N
> 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
            }
        }
        - if `"`wtypes`"" == """

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= 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 wlth wg_ndx_mult stky_pr_rotemberg wg_ndx
> stky_pr_calvo open if y_timing_max<60 , vce(r)"
    - quietly syntax [anything(equalok)] [if/] [in] [`wtypes'] [, VCE(string
> asis) VCE1(string asis) Robust NODOTS `panelopt' `stopt' `REQOPTLIST' * ]
    = quietly syntax [anything(equalok)] [if/] [in] [fw aw pw iw] [, VCE(str
> ing asis) VCE1(string asis) Robust NODOTS * ]
    - if `:list vce === vce1' {
= if 0 {
    local vce1
}
- if `""`vce1`""' != "" & `multivce`"" == "" {
= if `""`' != "" & "" == "" {

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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 "`bstrap'" != "" {
= if "" != "" {
    local bootstrap bootstrap
}
- if "`jkknife'" != "" | "`jackknife'" != "" {
= if "" != "" | "" != "" {
    local jackknife jackknife
}
- local vcetype `"`jackknife' `bootstrap' `robust' `options`'"
= local vcetype `"` robust "
- sreturn local vcetype `"`:list retok vcetype`'"
= sreturn local vcetype `"`robust"

```

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```
> _____ end _vce_parserun.unabVCETyp
```

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> 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.MYRESULT
> T _____
- args exit
- sreturn local exit `"`exit`""'
= sreturn local exit `""'


---


> _____ end _vce_parserun.MYRESULT
> 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 wlth wg_ndx_mult stky_pr_rotember
> g wg_ndx stky_pr_calvo open if y_timing_max<60 , vce(r)


---


> _____ begin nbreg.Estimat
> e _____

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- local vvpoi : 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 ``fvlabel' `nofvlabel''
```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

---

```

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

```

```

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

```

```
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
```

```

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


---


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


---


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


---


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


---


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

```

---

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

```

---

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> _____ end _get_diopts.Wrapo

```

```

> n -----
  - if ``fvwrap'' != "" {
  = if "" != "" {
    FVWrap, `fvwrap'
  }
  - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `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) T0Lerance(real -1) LT0Lerance(real -1) GT0Lerance(rea
> l -1) NONRT0Lerance SHOWNRtolerance SHOWT0Lerance NRT0Lerance(real -1) QT0Le
> 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) T0Lerance(real -1) LT
> 0Lerance(real -1) GT0Lerance(real -1) NONRT0Lerance SHOWNRtolerance SHOWT0Le
> rance NRT0Lerance(real -1) QT0Lerance(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) LT0Lerance(real -1) GT0Lerance(r
> eal -1) NONRT0Lerance SHOWNRtolerance SHOWT0Lerance NRT0Lerance(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'"!=`constan'" {
= if ""!=`constan'" & ""!=`exposure'" {
    version 7: di as err "options {bf:offset()} and {bf:exposure()} may no
> t be specified together"
    exit 198
}
- if "`constan'"!=`exposure'" {
= if ""!=`exposure'" {
    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'"!=`vce' {
= if `cluster'"!=`vce' {
    local clopt cluster(`cluster')
}
- _vce_parse, argopt(CLuster) opt(Robust oim opg) old: [`weight``exp'],
> `vce' `clop' `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'
    = .__000001.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 oim opg'''
    - local ARGOPTNAMES ````a'.dumpnames''''

```

---

```

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

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

```

```

- if `"`vce`"" != "" {
= if `"`r`" != "" {
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE __000001 __000002 , r


---


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


---


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


---


> _____ end _optlist.dumpoption
> s _____


---


> _____ begin _optlist.dumpoption
> s _____
- version 9
- forval i = 1/`.options.arrnels' {
= forval i = 1/1 {
- local optlist `optlist' `.`options[`i']'
= local optlist 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 `".`O'.dumpnames` `.`A'.dumpnames`"""

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

```

```

> s _____ end _optlist.dumpname
= 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 `""
= return local vceopt `"


---



```

> _____ end _vce_pars
> e _____
- local cluster `r(cluster)'
= local cluster
- local robust `r(robust)'
= local robust robust
- local vce `"<`r(vceopt)"`
= local vce `"

```


```

```

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 wlth wg_ndx_mult stky_pr_rotemberg wg_ndx st
> ky_pr_calvo open [] if __000000,
- local xvars `r(varlist)'
= local xvars wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo op
> en
- _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 wlth wg_ndx_mult stky_pr_rot
> emberg wg_ndx stky_pr_calvo open [] if __000000, nodisplay 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
> wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open [] if __000000
> , nodisplay robust
```

---

```

> _____ begin _vce_parseru
> n _____
- version 9
```

```

- local version : di "version " string(_caller()) ":""
- local bycall = _by()
- _on_colon_parse `0'
= _on_colon_parse poisson, mark(Exposure OFFset CLuster) : y_timing_
> max wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open [] if __000
> 000, 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 wlth wg_ndx_mult stky_pr_ro
> temberg wg_ndx stky_pr_calvo open [] if __000000, nodisplay 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 wlth wg_ndx_mult stky_pr_ro
> temberg wg_ndx stky_pr_calvo open [] if __000000, nodisplay 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 wlth wg_ndx_mult stky_pr_rot
> emberg wg_ndx stky_pr_calvo open [] if __000000, nodisplay robust"

```

---

```

> _____ end _on_colon_pars
> e _____
    - local ZERO `"`s(before)`""
    = local ZERO `"`poisson, mark(Exposure OFFset CLuster) `"
    - local 0 `"`s(after)`""
    = local 0 `"` y_timing_max wlth wg_ndx_mult stky_pr_rot emberg wg_ndx
> stky_pr_calvo open [] 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 wlth wg_ndx_mult stky_pr_rotember
> g wg_ndx stky_pr_calvo open [] 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 FVWRAP(passthru) FVWRA
> PON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElev
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> sssthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pa
> sssthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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

```

---

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

        = if 0 < 2 {
        - exit


---


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


---


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


---


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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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



---


> _____ end _get_diopts.Wrapo
> n _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts` `levelopt` `vsquish` `allbaselevels` `basel
> evels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `coefle
> gend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compare` `
> fvrap` `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)
    - }
    - 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 NOALLBASEleve
> 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

```

```

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

---

```

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

```

---

```

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

---

```

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

```

---

```

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

```

```
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
```

```

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


---


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


---


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


---


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


---


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


---


> _____ begin opts_exclusiv

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(`cformat') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat `cformat'
    local cformat `cformat(`cformat')"
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`sformat') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `sformat'
    local sformat `sformat(`sformat')"
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`pformat') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `pformat'
    local pformat `pformat(`pformat')"
}
-
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
-
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
-
- Wrapon , `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 ``fvrap'' != "" {
    = if "" != "" {
        FVWrap, `fvrap'
    }
    - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
```

```

> fvwrap' `fvrapon' `fvlable' `noci' `nopvalues' `markdown' `cotype' `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) FVRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pa
> sssthru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    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 fwrapon `word` `width'
= local fwrapon
- if `:length local fwrapon` {
= if 0 {
    c_local fwrapon fwrapon(`fwrapon')
    }


---


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


---


> _____ end _get_diopts.GetDiopt
> s _____

```

```

- c_local `name2` ``options``
= c_local options `"""
- }
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if ``DUPS`` != "" {
= if `""` != "" {
    if (strpos(```DUPS```, "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS ``DUPS`()
    }
    di as err "duplicate {bf:`DUPS`} option not allowed"
    exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = ``$_`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 L0g 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 NOLog L0g nrderiv *
> ]
- gettoken dest rest : namelist
- if ``rest`` == "" {
= if `""` == "" {

```

```

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

```

```

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



---


> _____ end mlopt
> s _____
- local coll `s(collinear)'
= local coll
- local cns `s(constraints)'
= local cns
- local mlopts `mlopts' `crittype'
= local mlopts
- if `score'!="" {
= if ""!="" {
    confirm new variable `score'
    local nword : word count `score'
    if `nword' > 1 {
        di in red "score() must contain the name of only " "one new variab
> le"
        exit 198
    }
    tempvar scvar
    local scop score(`scvar')
}

```

```

- if ``offset''!=``' & ``exposur''!=``' {
= if ``''!=``' & ``''!=``' {
    di in red "only one of offset() or exposure() can be specified"
    exit 198
}
- if ``constan''!=``' {
= if ``''!=``' {
    local nvar : word count `varlist'
    if `nvar' == 1 {
        di in red "independent variables required with " "noconstant option"
> n"
        exit 100
    }
}
- marksample touse
- if ```cluster''!=``' {
= if ``''!=``' {
    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
    }
    - tempname 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 "
> uId 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 wlth wg_ndx_mult stky_pr_rotemberg wg_nd
> x stky_pr_calvo open [] if __000002,

```

```

- local xvars `r(varlist)'
= local xvars wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calv
> o open
- if "`from'"==""
= if ""==""
- `vv' Ipois `y' `xvars' [`weight``exp'] if `touse', n(`nobs') mean(
> `mean') `constan' `offopt'
= version 18, missing: Ipois y_timing_max wlth wg_ndx_mult stky_pr_r
> otemberg wg_ndx stky_pr_calvo open [] if __000002, n(__000004) 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 wlth wg_ndx_mult stky_pr_calvo open 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 ++
  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 NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP
> P(passthru) VWRAPON(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 fvlabel `fvlabel` `nofvlabel'  
      = local fvlabel  
      - local abbrev `abbrev` `noabbrev'  
      = local abbrev  
      - if "`allbaselevels` `baselevels'" == "" {  
      = if "" == "" {  
          - if c(showbaselevels) == "all" {  
              local allbaselevels allbaselevels  
          }  
          - else if c(showbaselevels) == "on" {  
              local baselevels baselevels  
          }  
          - }  
          - if "`emptycells'" == "" {  
          = if "" == "" {  
              - if c(showemptycells) == "off" {  
                  local emptycells noemptycells  
              }  
              - }  
      }
```

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)


---


> _____ begin _get_diopts.FVWrap
> 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.FVWrap
> 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 NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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

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

> _____ end _get_diopts.GetDiopt
> s _____
    - if `""name2""' == "" {
    = if `""' == "" {
    - 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
> WRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP

```

```

> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWVRA
> P(passthru) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____

```

```

- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


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


---


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


---


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


---


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


---


> _____ begin opts_exclusiv

```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

---

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

```

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

```

---

```

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

```

```

        }
- opts_exclusive ``word' `width''' fvrapon
= opts_exclusive " " fvrapon


---


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


---


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


---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvrap'' != "" {
= if "" != "" {
    FVWrap, `fvrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlable' `nocI' `nopvalues' `markdown' `citype' `abb
> rev'
= c_local DUPS
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' ``options'''
}
- sreturn local coding `coding'

```

```

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


---


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


---


> _____ end _get_diopt
> s _____
    - if !`:length local first' {
    = if !0 {
    - local first showeqns
    - }
    - if `neq' < 1 {
    = if -1 < 1 {

```

```

- _ms_eq_info
- local neqopt neq(`r(k_eq)')
= local neqopt neq(1)
- }
- else {
    local neqopt neq(`neq')
}
- _coef_table, nodiparm nocnsreport noeqlcheck eformall `eform' `
> first`neqopt`plus`beta`mcopt`diopts'
        = _coef_table, nodiparm nocnsreport noeqlcheck eformall showeqns
> neq(1) mcompare(noadjust) 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` `fvlabel`"

```

```

    opts_exclusive ``nolabel' `fvlabel''
    opts_exclusive ``nofvlabel' `label''
    if ``nolabel'' != "" {
        local fvlabel nofvlabel
    }
    else {
        local fvlabel fvlabel
    }
}
- else local fvlabel `nofvlabel' `fvlabel'
= else local fvlabel
- local type `coeflegend' `selegend'
= local type
- opts_exclusive ``type' `standardized''
= opts_exclusive " "

```

---

```

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

```

---

```

> _____ end opts_exclusiv
> e _____
    - if (```rowmatrix''''=="" & ```norowci''''!="") {
    = if ('''''=="" & ""!= "") {
        di as err "{bf:norowci} requires {bf:rowmatrix()}"
        exit 198
    }
    - if ("`dftable''''!="" & ```norowci''''!="") {
    = if ("''!= "" & ""!= "") {
        di as err "{bf:norowci} is not allowed with {bf:`dftable'}"
        exit 198
    }
    - if ("`dfonly''''!="" & ```norowci''''!="") {
    = if ("''!= "" & ""!= "") {

```

```

di as err "{bf:norowci} is not allowed with {bf:`dfonly'}"
exit 198
}
- if ("`noci'"!="`norowci'") {
= if ("`noci'"!="`norowci'") {
di as err "{bf:norowci} is not allowed with {bf:`noci'}"
exit 198
}
- if "`standardized'" != "" & "`bstdmatrix'" != "" {
= if "`standardized'" != "" & "`bstdmatrix'" != "" {
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
gettken 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
> ETHOD''''
        exit 198
    }
}
-
sreturn local method ```METHOD'''
=sreturn local method ``noadjust''
-
sreturn local adjustall ```ALL'''
=sreturn local adjustall ``''''



---


> _____ end _get_mcompar
> e _____
    - local method ```$method'''
    = local method ``noadjust''
    - local all ```$adjustall'''
    = local all ``''''
    - local options ```$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 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 ``f xlabel' `nof xlabel''
= opts_exclusive " "


---


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

```

---

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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

```

```

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

```

```

        sreturn local $format `"$format"
        local $format `"$format(`format')"
    }
- if `:length local $format' {
= if 0 {
    confirm numeric format '$format'
    if fmtwidth(`"$format") > 5 {
        local $format "%5.3f"
        di "{txt}note: invalid $format(), using default"
    }
    sreturn local $format `"$format"
    local $format `"$format(`format')"
}
- if 'K' == 1 & `:length local options' {
= if 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')
}
- $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(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 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 ``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 DEFAULT
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt

```

```

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

```

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

        - exit


---


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


---


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


---


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


---


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

```

---

```

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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

c_local fvrapon fvrapon(`fvrapon')
}



---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> bbrev'
= c_local 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) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV */
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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


---


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


---


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


---


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

```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

---

```
> e _____ end opts_exclusiv
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local 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 WIidth]
    - if c(rc) {
        di as err "invalid fvrapon() option;"
        syntax [, WOrd WIidth]
        exit 198
    }

```

```

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


---


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


---


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


---


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


---


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


---


> _____ end _get_diopts.FVWra

```

```

> p -----
    - }
    - c_local `c_diopts` `levelopt` `vsquish` `allbaselevels'
> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `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 ignore `""fvwrap(1)"""
    - local snames : s(macros)
    - foreach sname of local snames {
    - local S_`sname' = s(`sname')
    = local S_level = s(level)
    - }
    - local S_`sname' = s(`sname')
    = local S_options = s(options)
    - }
    - local S_`sname' = s(`sname')
    = local S_method = s(method)
    - }
    - sreturn clear
    - GetDiopts DEFAULT
-----
> ----- begin _get_diopts.GetDiopt
> s -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)

```

```

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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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


---


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


---


> _____ end opts_exclusiv

```

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


---

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


---

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


---

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


---

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

---

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

```

---

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

```

---

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

```

---

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

```

---

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____

```

```

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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``f xlabel' `nof xlabel''
= opts_exclusive " "


---


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

```

---

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit
        _____
> _____ end opts_exclusiv
> e _____
        - local fvrapon `word' `width'
        = local fvrapon
        - if `:length local fvrapon' {
        = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
        }

        _____
> _____ end _get_diopts.Wrapo
> n _____
        - if "`fvwrap'" != "" {
        = if "" != "" {
        FVWrap, `fvwrap'
        }
        - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
        = c_local DUPS
        - if `K' == 2 {
        = if 1 == 2 {
        c_local `c_opts' `""`options""'
        }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95
        _____
> _____ end _get_diopts.GetDiopt
> s _____
        - }
        - else {
        GetDiopts DUPS options, `options'
        c_local `name2' `""`options""'
        }

```

```

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



---


> _____ end _get_diopt
> s _____
- local cformat ```$cformat''''
= local cformat `''''
- local sformat ```$sformat''''
= local sformat `''''
- local pformat ```$pformat''''
= local pformat `''''
- _get_eformopts , eformopts(`options') allowed(_all_) 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
- }
- 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 `""` == "" & `214` != "" {
            - capture confirm integer number `e(df_r)`
            = capture confirm integer number 214
            - if !c(rc) {
            - local gdof dof(`e(df_r)')
            = local gdof dof(214)
            - }
            - 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' {
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) [, *]
    - 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

```

```

        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(1)" != "" {
  - FVWrap, `fvwrap'
  = FVWrap, fvwrap(1)

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

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

```

```

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


---


> _____ end _get_diopts.GetDiopt
> s _____
    - c_local `name1` `""`diopts"""
    = c_local __0000B `""`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 fylabel `fylabel` `nofylabel'
= local fylabel
- local abbrev `abbrev` `noabbrev'
= local abbrev

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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


---


> _____ begin _get_diopts.GetDiopt
> s _____

```

```

    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO OMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWV
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `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 _____

```

```

- 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 _____
    - tempname 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 __00006+__0000B [] if __00002, n(__000
> 04)


---


> _____ begin poisson.LikePoi
> s _____
- gettoken y 0 : 0
- gettoken xb 0 : 0
- syntax [fw aw pw iw] [if] , Nobs(string)
- if "`weight'"!=""
= if ""!=""
    if "`weight'"=="fweight"
        local wt `"[fw`exp']"
    }
    else if "`weight'"=="iweight"
        local wt `"[iw`exp']"
    }
    else local wt `"[aw`exp']"
}
- tempvar lnf
- qui gen double `lnf' = `y'*(`xb')-exp(`xb')-lngamma(`y'+1) `if
> '
= qui gen double __0000C = y_timing_max*(__00006+__0000B)-exp
> (__00006+__0000B)-lngamma(y_timing_max+1) if __00002
- summarize `lnf' `wt' `if', meanonly
= summarize __0000C if __00002, meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __00004 { exit }
- if "`weight'"=="aweight"
= if ""=="aweight"
    ret scalar lnf = r(N)*r(mean)
}
- else ret scalar lnf = r(sum)


---


> _____ end poisson.LikePoi
> s _____
- tempname lnf1c
- scalar `lnf1c' = r(lnf)
= scalar __0000C = 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 wlth wg_ndx_mult stky_pr
> _rotemberg wg_ndx stky_pr_calvo open [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' MCOMPar(string) *]
    }
    - else {

```

```

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



---


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

```

```

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


---


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


---


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


---


> _____ end opts_exclusiv
> e _____
- local EXCLUDE duncan dunnett snk tukey

```

```

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

```

---

```

> _____ end _get_mcompar
> e _____
    - if "`s(method)`" != "" {
    = if "noadjust" != "" {
    - loca mcopt mcompare(`s(method)` `s(adjustall)`)
    = loca mcopt mcompare(noadjust )
    - }
    - _get_diopts diopts, `s(options)`
    = _get_diopts diopts, level(95.00) fwwrap(1)
    _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options, level(95.00) fwwrap(1)
    _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> WRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
        = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) 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' `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 fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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



---


> _____ end _get_diopts.Wrapo
> n _____
- if "`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 `"$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 ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> 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 NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

```

= opts_exclusive " "


---


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


---


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


---


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


---


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

```

---

```

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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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


---


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


---


> _____ end _get_diopts.GetDiopt
> s _____

```

```

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


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) 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

```

```

        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 ``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 fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

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

```

---

```

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

```

---

```

> _____ end _get_diopts.Wrapo

```

```

> n -----
  - if ``fvwrap'' != "" {
  = if "" != "" {
    FVWrap, `fvwrap'
  }
  - c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlable' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
  = c_local DUPs
  - if `K' == 2 {
  = if 1 == 2 {
    c_local `c_opts' `""`options`"""
  }
  - sreturn local coding `coding'
  = sreturn local coding
  - sreturn local versus `versus'
  = sreturn local versus
  - sreturn local compare `compare'
  = sreturn local compare
  - sreturn local level `level'
  = sreturn local level 95
  -----
> ----- end _get_diopts.GetDiopt
> s -----
  - }
  - else {
    GetDiopts DUPs options, `options'
    c_local `name2' `""`options`"""
  }
  - local DUPs : list DUPs - DEFAULT
  - gettoken DUPs : DUPs
  - if `""`DUPs`""' != "" {
  = if `""`' != "" {
    if (strpos(`""`DUPs`""', "(")) {
      gettoken DUPs : DUPs, parse("(")
      local DUPs `""`DUPs'()`""'
    }
    di as err "duplicate {bf:`DUPs'} option not allowed"
    exit 198
  }
  - sreturn clear
  - foreach sname of local snames {
  - sreturn local `sname' = `""`S_`sname`"""
  = sreturn local level = `""`95`"""

```

```

    - }
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local method = `"noadjust"
    - }
    - sreturn local `sname' = `""`S_`sname"""
    = sreturn local options = `"level(95.00) fvwrap(1)"
    - }



---


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



---


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

```

```

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

```

```

> PCLASSMATRIX(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(st
> ring asis) Beta NOCI NOPValues dfci DFPValues dfmissing COEFLegend seleg
> end      sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(
> string) cititle(string) NOMCLEGend noCNSReport FULLCNSReport cformat(passth
> ru) sformat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -
> 1) NODIPARM NOTEST 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 " "
> 
> e _____ begin opts_exclusiv
> e _____
> - version 8.2
> - args opts optname errcode optslab
> - local opts `opts'
> = local opts
> - local 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 FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA

```

```

> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *)
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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


---


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


---


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


---


> _____ end opts_exclusiv

```

```

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

```

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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

        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 ``fvwrap''' != "" {
= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)


---


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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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

```

```

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

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fwrapon() option;""
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive ``word' `width'' fwrapon
= opts_exclusive " " fwrapon
_____
> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts''' != "" {
= while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
_____
> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
= local fwrapon
    - if `:length local fwrapon' {
= if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }
_____
> _____ end _get_diopts.Wrapo
> n _____
    - if ```fwrap''' != "" {
= if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `fwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a

```

```

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


---


> _____ end _get_diopts.GetDiopt
> s _____
    - if `""`name2""'' == "" {
    = if `""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 ``f xlabel' `no f xlabel''
= opts_exclusive " "


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

```

= opts_exclusive " "


---


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


---


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


---


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


---


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

```

---

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

```

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

```

```

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

```

---

```

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

```

---

```

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

```

```

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


---


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


---


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


---


> _____ end _get_diopts.GetDiopt

```

```

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

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

_____
> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist

```

```

    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options, fvwrap(1)


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NO OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


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


---


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


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

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

```

- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


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


---


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


---


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


---


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

```

---

```

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

```

```

- }
- if ``omitted'' == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- }
- if ``lstretch'' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- }
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat ```cformat(`cformat')'''
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat ```sformat(`sformat')'''
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat ```pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 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.FVWr
> 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.FVWr
> p _____
- }
- 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 diopts fvwrap(1)
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name1' `""`diopts"""
= c_local ignore `""`fvwrap(1)`"""
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)

```

```

- }
- local S_`sname' = s(`sname')
= local S_options = s(options)
- }
- local S_`sname' = s(`sname')
= local S_method = s(method)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


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


---


> _____ end opts_exclusiv
> e _____

```

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


---


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


---


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


---


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


---


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


---


> _____ begin opts_exclusiv
```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

= if 0 < 2 {
- exit


---


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


---


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


---


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


---


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

```

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

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

= if 0 {
  c_local 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' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `a
> bbrev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts' `options'
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

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

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

```

```

> SLevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW
> RAP(passthru) 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 fvlable `fvlable` `nofvlabel'
= local fvlable
- local abbrev `abbrev` `noabbrev'
= local abbrev
- if ``allbaselevels`` `baselevels'` == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
- if ``emptycells`` == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
- if ``omitted`` == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
- if ``lstretch`` == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
- if `:length local cformat' {
```

```

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

```

---

```

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

```

```

        exit 198
    }
- opts_exclusive ``word' `width'' fvrapon
= opts_exclusive " " fvrapon


---


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


---


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


---


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

```

```

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


---


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


---


> _____ end _get_diopt
> s _____
    - local cformat `""`s(cformat)`"""
    = local cformat `"""
    - local sformat `""`s(sformat)`"""
    = local sformat `"""
    - local pformat `""`s(pformat)`"""

```

```

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

```

```

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

```



```

= 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`'')
> ``eform_cons_ti`''), ``eform_cons_ti2`'')
```

```

        }
      - local coefttl = cond(```eform'''==```", ```coeftitle'''", ```"
> eformdi```")
      = local coefttl = cond(````==```", `````", `````")
      - local options ```s(options)`"""
      = local options `"""
      - _get_diparmopts, diparmopts(`options') level(`level')
      = _get_diparmopts, diparmopts() level(95)


---


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


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
      - syntax name(id="macro name" name=c_diparm) [, diparm(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
      - if ```dof''' == ``` & `e(df_r)''' != ``` {
      = if ``` == ``` & `214''' != ``` {
      - capture confirm integer number `e(df_r)'
      = capture confirm integer number 214
      - if !c(rc) {
      - local gdof dof(`e(df_r)')
      = local gdof dof(214)
      - }
      - capture
      - }
      - else local gdof ```dof'''
      = else local gdof `"""
      - local glevel `level'
      = local glevel 95
      - local lopt level(`glevel')
      = local lopt level(95)
      - if (```diparm''' == ```") exit
      = if (``` == ```") exit

```

---

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

```

        }
        - sreturn local k `k'
        = sreturn local k 0
        - exit


---


> _____ end _get_diparmopt
> s _____
    - local NODIPARM : length local nodiparm
    - if `NODIPARM' {
    = if 8 {
    - local options
    - }
    - local GTOPTS parse(":") bind quotes
    - local k 0
    - if !`NODIPARM' {
    = if !8 {
        if `""`e(diparm)""' != "" {
        local i 0
        local diparm `""`e(diparm)""'
        }
        else if `""`e(diparm1)""' != "" {
        local i 1
        local diparm `""`e(diparm1)""'
        }
        while `:length local diparm' {
        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 `"
> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIidth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIidth]
    exit 198
}
- opts_exclusive "`word' `width'" fvrapon
= opts_exclusive " " fvrapon


---



```

```

> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
    - local fvrapon `word' `width'
    = local fvrapon
    - if `:length local fvrapon' {
    = if 0 {
        c_local fvrapon fvrapon(`fvrapon')
    }
----- end _get_diopts.Wrapo
> n -----
    - if "`fvwrap'" != "" {
    = if "fvwrap(1)" != "" {
    - FVWrap, `fvwrap'
    = FVWrap, fvwrap(1)
----- begin _get_diopts.FVWra
> p -----
    - syntax, fvwrap(integer)
    - if `fvwrap' < 0 {
    = if 1 < 0 {
        di as err "{p}invalid option {bf:fvwrap(`fvwrap')}; "
    > "nonnegative integer required{p_end}"
        exit 198
    }
----- end _get_diopts.FVWra
> p -----
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'

```

```

> `baselevels` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lststretch` `
> coeflegend` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `comp
> are` `fvwrap` `fvrapon` `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) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV */
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


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


---


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


---


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


---


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

```

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

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


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

```

```

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

```

```

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


---


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


---


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


---


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


---


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

```

---

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

```

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

```

---

```

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

```

```

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

```

---

```

> _____ end _get_diopts.GetDiopt
> s _____
    - if ``name2''' == "" {
    = if ``` == "" {
    - 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 fylabel `f ylabel' `nof ylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ```allbaselevels'`baselevels'`` == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {
    local allbaselevels allbaselevels

```

```

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

```

```

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

```

---

```

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

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

```

```

local DUPS ```DUPS'()'''
}
di as err "duplicate {bf:`DUPS'} option not allowed"
exit 198
}
-sreturn clear
-foreach sname of local snames {
-sreturn local `sname' = ```S_`sname''''
= sreturn local level = `"95"'
-
-sreturn local `sname' = ```S_`sname''''
= sreturn local k = `"0"'
-
}



---


> _____ end _get_diopt
> s _____
- if "`markdown'" != "" {
= if "" != "" {
    set linesize `lsize'
}
- if "`eqselect'" == "" & "`eformnote'" != "noeformnote" {
= if "" == "" & "" != "noeformnote" {
- if `"`eformdi'"'!="" & ("`e(cmd)'"!="gnbreg" | "`e(prefix)'"'
> == "svy") {
= if ""'!="" & ("regress"!="gnbreg" | ""== "svy") {
    local k_eform `r(k_eform)'
    if (`k_eform'== "") {
        local k_eform = 1
    }
    local k_eq `e(k_eq)'
    if (`k_eq'== "") {
        local k_eq = 1
    }
    if (`k_eform'<`k_eq' & `k_eform') {
        if ("`e(cmd2)'" == "stintreg" | "`e(cmd2)'" == "streg") & (
> `e(cmd)'" == "weibull" | "`e(cmd)'" == "gompertz") {
            }
        else {
            _eform_multeq_note efnote : `k_eform' ```tr_item''''
            di as txt "`efnote'"
        }
    }
}
- if (`"`eformdi'"'!="" & "`e(noconstant)'"=="0" & `"`eform_co
> ns_ti'"'!="" & "`e(consonly)'"!="1") {
= if (`""'!="" & ""=="0" & `""'!="" & ""!="1") {

```

```

        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local asvar = ```e(ranvars)``e(fixvars)``e(indvars)''' != ""
            if ```e(casevars)''' != "" & `asvar' {
                local note1 "Exponentiated coefficients represent odds ratio
> s for "
                local note2 "alternative-specific variables (first equation)
> and "
                local note3 "{help j_cmrisk##|_new:relative-risk ratios} "
                local note4 "for case-specific variables."
                di as txt "{p 0 6 2}Note: `note1``note2``note3``note4'{p_end
> }"
            }
            }
            if "`eform_cons_ti'" == "Inc. rate" {
                local eform_cons_note "incidence rate"
            }
            else if "`eform_cons_ti'" == "Rel. risk" {
                local eform_cons_note "relative risk"
            }
            else if "`eform_cons_ti'" == "Health" {
                local eform_cons_note "health (probability of no disease)"
            }
            else {
                local eform_cons_note = strlower(``eform_cons_ti'')
            }
            local eform_cons_note "baseline `eform_cons_note'"
            if ("`e(cmd2)'"=="") {
                local cmd `e(cmd)'
            }
            else {
                local cmd `e(cmd2)'
            }
            local f2 = 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 _____
    - tempname lnf2
    - scalar `lnf2' = r(lnf)
    = scalar __00000D = r(lnf)
    - }
    - if _rc { local lnf2 . }
    - if `lnf1'>=. & `lnf1c'>=. & `lnf2'>=. { exit }
    = if __00000A>=. & __00000C>=. & __00000D>=. { exit }
    - if `lnf2'<. &(`lnf2'>`lnf1'|`lnf1'>=.) &(`lnf2'>`lnf1c'|`lnf1c'>=.
> ) {
    = if __00000D<. &(__00000D>__00000A|__00000A>=. ) &(__00000D>__00000C
> |__00000C>=.) {
        - ret matrix b0 `b2'
        = ret matrix b0 __000009
        - exit


---


> _____ end poisson.Ipoi
> s _____
    - if "`r(b0)'"!=""
    = if "matrix"!=""
    - tempname from
    - mat `from' = r(b0)
    = mat __000006 = r(b0)
    - }
    - }
    - if "`from'"!=""
    = if "__000006"!=""
        - local initopt `init(`from') search(off)"
        = local initopt `init(__000006) search(off)"
        - }
        - else local initopt "search(on) maxfeas(50)"
        - `vv' ml model `mm' `eval' (`yname': `y' = `xvars', `constan' `offo
> pt') [`weight``exp'] if `touse', collinear missing max nooutput nopreserve `
> mlopts' title(Poisson regression) `scpt' `robust' `clopt' `initopt' `ll0' `
> negh' `moptobj'
        = version 18, missing: ml model e2 poiss_lf (y_timing_max: y_timing_
> max = wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open, ) [] if
> __000002, collinear missing max nooutput nopreserve title(Poisson regressi
> on) robust init(__000006) search(off) lf0(1 -437.385284075989) negh

```

---

```
> _____ begin m
> l _____
- if _caller()>=11 {
- mopt `0'
= mopt model e2 poiss_lf (y_timing_max: y_timing_max = wlth wg_ndx
> _mult stky_pr_rotemberg wg_ndx stky_pr_calvo open, ) [] if __000002, collin
> ear missing max nooutput nopreserve title(Poisson regression) 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 lcmd : length local subcmd
- if "`subcmd'" == "clear" {
= if "model" == "clear" {
    Clear
    exit
}
- if `"`subcmd`'" == "hold" {
= if `"`model`'" == "hold" {
    ml_hold `0'
    exit
}
- if `"`subcmd`'" == "unhold" {
= if `"`model`'" == "unhold" {
    ml_unhold `0'
    exit
}
- if `"`subcmd`'" == "score" {
= if "model" == "score" {
    if _caller() > 12 {
        `vv' Score `0'
    }
    else {
        Score `0'
    }
    exit
}
- if `"`subcmd`'" == "count" {
= if "model" == "count" {
    Count `0'
    exit
}
```

---

```

- if "`subcmd'" == "trace" {
= if "model" == "trace" {
    Trace `0'
    exit
}
- if "`subcmd'" == bsubstr("graph",1,max(2,`lcmd')) {
= if "model" == bsubstr("graph",1,max(2,5)) {
    Graph `0'
    exit
}
- if "`subcmd'" == "init" {
= if "model" == "init" {
    Interactive 0
    `vv' Init `0'
    exit
}
- if "`subcmd'" == bsubstr("maximize",1,max(3,`lcmd')) {
= if "model" == bsubstr("maximize",1,max(3,5)) {
    Interactive 1
    `vv' MaxMin maximize `0'
    exit
}
- if "`subcmd'" == bsubstr("minimize",1,max(3,`lcmd')) {
= if "model" == bsubstr("minimize",1,max(3,5)) {
    Interactive 1
    `vv' MaxMin minimize `0'
    exit
}
- if "`subcmd'" == bsubstr("display",1,max(2,`lcmd')) {
= if "model" == bsubstr("display",1,max(2,5)) {
    Display `0'
    exit
}
- if "`subcmd'" == bsubstr("footnote",1,max(4,`lcmd')) {
= if "model" == bsubstr("footnote",1,max(4,5)) {
    ml_footnote `0'
    exit
}
- if "`subcmd'" == "," {
= if "model" == "," {
    Display, `0'
    exit
}
- if "`subcmd'" == bsubstr("model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'

```

```

        = version 18: capture noi Model e2 poiss_lf (y_timing_max: y_ti
> ming_max = wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open, )
> [] if __000002, collinear missing max nooutput nopreserve title(Poisson reg
> ression) 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(passthru
> u) moptobj(string) USEVIEWS * ]
        - if `"`moptobj`"" == "" {
        = if `""` == "" {
        - Clear


---


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


---


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

```

```

= opts_exclusive "maximize"


---


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


---


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


---


> _____ begin _get_diparmopt
> s
    - if _caller() < 8.2 {
        _get_diparmopts_8 `0'
        exit
    }
    - version 9
    - local version : di "version " string(_caller()) ":""
    - syntax [, diparmopts(string asis) EXECUTE 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(str
> ing asis) Level(cilevel) dof(passthru) syntaxonly ]
- if ```dof''' == "" & ``e(df_r)''' != "" {
= if `''' == "" & "214" != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 214
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(214)
- }
- capture
- }
- else local gdof ```dof'''
= else local gdof `'''
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (```diparm''' == "") exit
= if (`''' == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts"'
= local 0 `", search(off)"
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while ```diparm''' != "" {
= while `''' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm ```s(before)''''
        local after ```s(after)''''
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `gopt

```

```

> ions'
    local diparm`k' ```diparm'''
    local diparmopts ```diparmopts' : `diparm'''
    if `single' | ```:list retok after''' == "" {
      local 0 `", `options''''
      syntax [, diparm(string asis) * ]
    }
    else {
      local diparm ```after''''
    }
  }
  - if ```soptions''' == "" {
  = if `":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 98 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(``eq''),1,1) == "/" {
= if bsubstr(trim(`(y_timing_max: y_timing_max = wlth wg_ndx_m
> ult stky_pr_rotemberg wg_ndx stky_pr_calvo open, )'),1,1) == "/" {
    local eq = bsubstr(trim(``eq''),2,.)
    local spec : subinstr local spec `/`eq'" `"(``eq'':`fparm')"
> ', word
}
- else {

```

```

    - gettokent p1 p2 : eq, parse("()")
    - local p2 = trim(``^p2```)
    = local p2 = trim(`"y_timing_max: y_timing_max = wlth wg_ndx_m
> ult stky_pr_rotemberg wg_ndx stky_pr_calvo open, ``)
    - if bsubstr(``^p2```,1,1) == "," {
    = if bsubstr(`"y_timing_max: y_timing_max = wlth wg_ndx_mult st
> ky_pr_rotemberg wg_ndx stky_pr_calvo open, ``,1,1) == "," {
        gettokent comma p2 : p2, parse(",")
        local p2 = trim(``^p2```)
    }
    - if ``^p1`` ``^p2`` == "()" {
    = if `"(y_timing_max: y_timing_max = wlth wg_ndx_mult stky_pr_
> rotemberg wg_ndx stky_pr_calvo open, ``" == "()" {
        local spec : subinstr local spec ``eq`` "(eq`ieq':)", word
    }
    - }
    - }
    - while `:length local eqspec' {
    = while 3 {
        local ++ieq
        - gettokent 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`)"
        }
    }
    - else {
        - gettokent p1 p2 : eq, parse("()")
        - local p2 = trim(``^p2```)
        = local p2 = trim(````)
        - if bsubstr(``^p2```,1,1) == "," {
        = if bsubstr(````,1,1) == "," {
            gettokent 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
            gettokent eq eqspec : eqspec, bind

```

```

if bsubstr(trim(`eq`),1,1) == "/" {
local eq = bsubstr(trim(`eq`),2,.)
local spec : subinstr local spec `/`eq` "(`eq`":`fparm`)"
> ', word
}
else {
gettoken p1 p2 : eq, parse("()")
local p2 = trim(`p2`)
if bsubstr(`p2`,1,1) == "," {
gettoken comma p2 : p2, parse(",")
local p2 = trim(`p2`)
}
if `p1` `p2` == "() {
local spec : subinstr local spec `eq` "(eq` ieq`:", word
}
}
}
-
if `interactive' {
= if 0 {
SetGlobalVar ML_sample : _MLtua
}
-
else {
-
global ML_sample : tempvar
-
if `moptobj' != "" {
= if `''' != "" {
global ML_sample `moptobj'$ML_sample
}
-
-
if `moptobj' != "" {
= if `''' != "" {
cap drop $ML_sample
}
-
`vv' mark $ML_sample `if' `in' [`weight` `exp`], `zeroweight'
= version 18: mark __00007 if __00002 [],
-
tempname eqlist
-
.`eqlist' = ._eqlist.new, eqopts(NOCNStant FREEParm) eqargs
> pts(OFFset EXposure) noneedvarlist numdepvars(0) needequal
= __00008 = ._eqlist.new, eqopts(NOCNStant FREEParm) eqargs
> pts(OFFset EXposure) noneedvarlist numdepvars(0) needequal
-
class {
-
instance:
-
array n_depvars
-
string needequal
-
string noneedvarlist
-
string wtypes
-
string collinear

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> _____ end _eqlist._ini
> t _____
- ._setup `0'

```

```
= ._setup , eqopts(NOCONstant FREEParm) eqargopts(OFFset EXP
> osure) noneedvarlist numdepvars(0) needequal
> _____ begin _eqlist._setu
> p _____
    - version 9.2
    - .mark_list = {}
    - .mark_name = {}
    - .mark_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .smark_list = {}
    - .smark_name = {}
    - .smark_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .rmcoll_list = {}
    - .rmcoll_name = {}
    - .rmcoll_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset
```

```

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

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

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

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

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

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

```

---

```

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

```

---

```

> ----- end _optlist.addop
> t -----
    - }
    - foreach opt of local eqargopts {
    - .eq_opts_allowed.addopt `opt', passthru
    = .eq_opts_allowed.addopt OFFset, passthru

```

---

```

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

```

---

```

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

```

---

```

> ----- begin _optlist.addop

```

```

> t -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(``optspec'')
    = local mname = lower("EXPosure")
    - if ``passthru'' != "" {
    = if "passthru" != "" {
        - local optspec `optspec'(passthru)
        = local optspec EXPosure(passthru)
        - }
        - .options.Arrpush ``optspec''
        = .options.Arrpush "EXPosure(passthru)"
        - .names.Arrpush ``mname''
        = .names.Arrpush "exposure"
-----
> ----- end _optlist.addop
> t -----
    - }
    - local i 0
    - foreach opt of local markopts {
        .mark_opts.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.adopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmdcollopts {
        .rmdcoll_opts.adopt `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'
    = .__000008.parse (y_timing_max: y_timing_max = wlth wg_ndx_m
> ult stky_pr_rotemberg wg_ndx stky_pr_calvo open, ) []
> _____ begin _eqlist.pars
> e _____
    - version 9.2
    - ._init
> _____ begin _eqlist._ini
> t _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""
    - .gl_in = ""
    - .gl_wgt = ""
    - .gl_options = ""
    - .eq_list = {}

> _____ end _eqlist._ini
> t _____
    - local MARKOPTLIST ```.mark_opts.dumpoptions'''

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

```

---

```

> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `"""
- local SMARKOPTLIST `""`.smark_opts.dumpoptions"""

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

> _____ end _optlist.dumpoption
> s _____
= local SMARKOPTLIST `"""
- local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""

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

> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""

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

```

---

```

= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""

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

```

```

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

```

---

```

> ----- begin _eqspec.ne
> w -----
    - version 9.2
    - syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUA
> L noNEEDVARLIST WTYPES(string) IGNORENOCONS ]
    - .n_depvars = 1
    - if `:list sizeof numdepvars' {
    = if 1 {
    - .n_depvars = `numdepvars'
    = .n_depvars = 0
    - }
    - .needequal = ("`needequal'" != "")
    = .needequal = ("needequal" != "")
    - .needvarlist = ("`needvarlist'" == "")
    = .needvarlist = ("noneedvarlist" == "")
    - .nocons_ignore = ("`ignorenocons'" != "")
    = .nocons_ignore = ("" != "")
    - .wtypes = ``wtypes''
    = .wtypes = ""

----- end _eqspec.ne
> w -----
    - .eq_list[`i'].parse `.eq_opts_allowed.objkey':`EQ_`i''
    = .eq_list[1].parse __key(60001384f680):y_timing_max: y_timi
> ng_max = wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open

----- begin _eqspec.pars
> e -----
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(60001384f680):y_timing_max: y_timi
> ng_max = wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open

----- 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(60001384f680)''' == ":" {

```

```

        sreturn local after ``after'''
        exit
    }
    - while ``COLON''' != ":" & ``after''' != "" {
        = while ""'' != ":" & `:y_timing_max: y_timing_max = wl
> th wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open''' != "" {
        - gettoken COLON after : after, parse(":") bind match(pa
> r) quotes
        - if ``par''' != "" {
        = if "" != "" {
            local before `before' (`COLON')
            local COLON
        }
        - else if ``COLON''' != ":" {
        = else if `":"' != ":" {
            local before ``before' `COLON'''
            local COLON
        }
        - }
        - while ``COLON''' != ":" & ``after''' != "" {
        = while `":"' != ":" & `y_timing_max: y_timing_max = wl
> th wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open''' != "" {
            gettoken COLON after : after, parse(":") bind match(pa
> r) quotes
            if ``par''' != "" {
                local before `before' (`COLON')
                local COLON
            }
            else if ``COLON''' != ":" {
                local before ``before' `COLON'''
                local COLON
            }
            - }
            - if ``COLON''' != ":" {
            = if `":"' != ":" {
                di as err "" found where `:' expected"
                exit 198
            }
            - sreturn local before ``before'''
            = sreturn local before `"_key(60001384f680)"'
            - sreturn local after ``after'''
            = sreturn local after `y_timing_max: y_timing_max = wlt
> h wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open'''
```

---

```
> _____ end _on_colon_pars
> e _____
```

```

- local ol `s(before)'
= local ol __key(60001384f680)
- 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 freeparm
        -
        - local namelist `namelist' `names[`i']'
        = local namelist noconstant freeparm offset
        -
        - local namelist `namelist' `names[`i']'
        = local namelist noconstant freeparm offset exposure
        -
        - local namelist : list uniq namelist
        - sreturn local namelist `""namelist"""
        = sreturn local namelist `noconstant freeparm offset ex
> posure"
        - class exit `""namelist"""
        = class exit `noconstant freeparm offset exposure"""



---


> _____ end _optlist.dumpname
> s _____
        = local OPTNAMES `noconstant freeparm offset exposure"
        - local NOCONS constant noconstant
        - if `":list NOCONS & OPTNAMES""' == "" {
        = if `noconstant"' == "" {
            local NOCONS noCONSTant
            }
        - else local NOCONS
            -
        - local 0 `s(after)"
        = local 0 `y_timing_max: y_timing_max = wlth wg_ndx_mult
> stky_pr_rotemberg wg_ndx stky_pr_calvo open"
        - if `".wtypes"' != "" {
        = if `""' != "" {
            local wgt "[`.wtypes']"
            }
        - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST'
> `NOCONS' *]
        = syntax [anything(equalok)] [if] [in] [, NOCONSTANT FREE
> Parm OFFset(passthru) EXposure(passthru) *
        - local HOLDIF `if"
        = local HOLDIF `"
        - local HOLDIN `in"
        = local HOLDIN `"
        - if `wgt' != "" & `weight' != "" {
        = if `' != "" & `' != "" {
            local HOLDWGT `"[`weight``exp']"
            }
        - 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 (13 == 0 & 0) {
    di as err "nothing found where depvar expected"
    exit 198
}
- if `"\`REST'"' == "" {
= if `"\`wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr
> _calvo open"' == "" {
    if 0`.needequal' {
        if `.\needvarlist' | (:length local DEPVARS' != 0 & `.\n_
> depvars') {
            di as err "equal sign required to separate depvars from
> indepvars"
            exit 198
        }
    }
    local DEPVARS
    local n_deps : list sizeof anything
    if `n_deps' != 0 | `.\needvarlist' {
        if `n_deps' < `.\n_depvars' {
            error 102
        }
        forval j = 1/`.\n_depvars' {
            gettoken YY anything : anything
            local 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 6 {
    - ffunab INDEPVARS : `INDEPVARS'
    = ffunab INDEPVARS : wlth wg_ndx_mult stky_pr_rotemberg w
> g_ndx stky_pr_calvo open
_____
> _____ begin ffunab
> b _____
    - version 11
    - _onColonParse `0'
    = _onColonParse INDEPVARS : wlth wg_ndx_mult stky_pr_
> rotemberg wg_ndx stky_pr_calvo open
_____
> _____ begin _onColonParse
> 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 `""' != ":" & `":' wlth wg_ndx_mult stky_pr_ro
> temberg wg_ndx stky_pr_calvo open"' != "" {
        - gettokent 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 `":'" != ":" & `":' wlth wg_ndx_mult stky_pr_ro
> temberg wg_ndx stky_pr_calvo open"' != "" {
        - gettokent 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 `":' wlth wg_ndx_mult stky_pr_rot
> emberg wg_ndx stky_pr_calvo open"'


---


> _____ end _on_colon_pars
> e _____
        - local 0 `"\`s(before)'"
        = local 0 `"\`INDEPVARS'"'

```

```

        - syntax name(id="macro name" name=user)
        - local 0 ``s(after)`"""
        = local 0 `"
> _____ end fvuna
> b _____
        - }
        - if inlist("noconstant", ``noconstant'', ``constant'') {
        = if inlist("noconstant", "", "") {
            if ``INDEPVARS'' == "" & ! `nocons_ignore' {
                di as err "independent variables are required when option
> n noconstant is specified"
                exit 102
            }
            if ``NOCONS'' != "" {
                local options `options' noconstant
            }
            local NOCONS 1
        }
        - else local NOCONS 0
        - if ```offset``exposure''' != "" {
        = if `""' != "" {
            .check_offset, `offset' `exposure'
            local OFFSET ``s(offset)`"
            local EXPOSURE = ("`exposure'" != "") {
                local OTHER `s(offset)'
            }
        }
        - else local EXPOSURE 0
        - local FREEPARM = ```freeparm''' != ""
        = local FREEPARM = `""' != ""
        - local OPTIONS
        - local SPACE
        - foreach OPTNAME of local OPTNAMES {
        - if ```OPTNAME''' != "" {
        = if `""' != "" {
            local OPTIONS ```OPTIONS``SPACE```OPTNAME'''
            local SPACE " "

```

```

        }
    - }
    - if `""``OPTNAME`"" != "" {
    = if `""` != "" {
        local OPTIONS `""`OPTIONS` `SPACE`""`OPTNAME`"""
        local SPACE " "
    }
    - }
    - if `""``OPTNAME`"" != "" {
    = if `""` != "" {
        local OPTIONS `""`OPTIONS` `SPACE`""`OPTNAME`"""
        local SPACE " "
    }
    - }
    - if `""``OPTNAME`"" != "" {
    = if `""` != "" {
        local OPTIONS `""`OPTIONS` `SPACE`""`OPTNAME`"""
        local SPACE " "
    }
    - }
    - if `""`options`"" != "" {
    = if `""` != "" {
        local OPTIONS `""`OPTIONS` `SPACE` `options`"""
        }
    - .name = `""`NAME`"""
    = .name = `y_timing_max`"""
    - .depvars = `""`DEPVARS`"""
    = .depvars = `y_timing_max`"""
    - .hasequal = `hasequal'
    = .hasequal = 1
    - .indepvars = `":list retok INDEPVARS`"""
    = .indepvars = `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx
> stky_pr_calvo open"
    - .other_markvars = `":list retok OTHER`"""
    = .other_markvars = `"""
    - .nocons = `NOCONS'
    = .nocons = 0
    - .if = `""`HOLDIF`"""
    = .if = `"""
    - .in = `""`HOLDIN`"""
    = .in = `"""
    - .wgt = `""`HOLDWGT`"""
    = .wgt = `"""
    - .offset = `""`OFFSET`"""
    = .offset = `"""
    - .exposure = `EXPOSURE'

```

```

= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 0
- .options = ```OPTIONS``'
= .options = `'''

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

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

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

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

> _____ end _optlist.dumpname
> s _____
= local MARKOPTNAMES `'''
- local OPTLIST1 : subinstr local MARKOPTLIST "(passthru)" "

```

```

> (string asis)", all
    - local SMARKOPTLIST `""` .smark_opts.dumpoptions"""

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

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

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

> _____ end _optlist.dumpname
> s _____
    = local SMARKOPTNAMES `"""
    - local OPTLIST1s : subinstr local SMARKOPTLIST "(passthru)"

> "(string asis)", all
    - local RMCOLLOPTLIST `""` .rmcoll_opts.dumpoptions"""

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`options.arrnels' {
    = forval i = 1/0 {

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

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

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

```

        .mark_name.Arrpush ``OPT''
    }
}
-
local I 0
foreach OPT of local SMARKOPTNAMES {
    if `:list sizeof `OPT'` {
        .smark_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wtyp
> es')
        .smark_list[`I'].parse "" : ``OPT''
        .smark_name.Arrpush ``OPT''
    }
}
-
local I 0
foreach OPT of local RMCOLLOPTNAMES {
    if `:list sizeof `OPT'` {
        .rmcoll_list[`++I'] = ._eqspec.new, numdep(0) wtypes(`.wty
> pes')
        .rmcoll_list[`I'].parse "" : ``OPT''
        .rmcoll_name.Arrpush ``OPT''
    }
}
-
local I 0
foreach OPT of local RMDCOLLOPTNAMES {
    if `:list sizeof `OPT'` {
        .rmdcoll_list[`++I'] = ._eqspec.new, wtypes(`.wtypes')
        .rmdcoll_list[`I'].parse "" : ``OPT''
        .rmdcoll_name.Arrpush ``OPT''
    }
}
-
.n_eq = `EQ_n'
= .n_eq = 1
- .gl_if = ```GL_if'''
= .gl_if = `"""
- .gl_in = ```GL_in'''
= .gl_in = `"""
- .gl_wgt = ```GL_wt'''
= .gl_wgt = `"["
- .gl_options = ```:list retok GL_op"""
= .gl_options = `"""



---


> _____ end _eqlist.pars
> e _____
    - if ```subpop'' != "" & ```missing'' == "" {
    = if "" != "" & "missing" == "" {
        if `interactive' {
            SetGlobalVar ML_samp : _MLtu

```

```

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



---


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



---


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



---


> _____ begin _eqlist.di

```

```

> m -----
  - version 9.2
  - syntax
  - local neq = `.`eq count'
  -----
> ----- begin _eqlist.e
> q -----
  - version 9.2
  - args item idx
  - if "`item'" == "count" {
= if "count" == "count" {
  - sreturn local value `".n_eq"'
= sreturn local value `"1"'
  - class exit `"`s(value)''''
= class exit `"1"'
  -----
> ----- end _eqlist.e
> q -----
  = local neq = 1
  - forval i = 1/`neq' {
= forval i = 1/1 {
  - local xvars `".eq indepvars `i''''
  -----
> ----- begin _eqlist.e
> q -----
  - version 9.2
  - args item idx
  - if "`item'" == "count" {
= if "indepvars" == "count" {
  - sreturn local value `".n_eq"'
  - class exit `"`s(value)''''
}
  - else if 0 < `idx' & `idx' <= `.`n_eq' {
= else if 0 < 1 & 1 <= 1 {
  - .eq_list[`idx'].item `item'
= .eq_list[1].item indepvars
  -----
> ----- begin _eqspec.ite
> m -----
  - version 9.2
  - args item
  - ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars
  -----
> ----- begin _eqspec._check_eq_item_name
> 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 `wlth wg_ndx_mult stky_pr_rotemberg wg_nd
> x stky_pr_calvo open"""
        - sreturn local value `""`value"""
        = sreturn local value `wlth wg_ndx_mult stky_pr_rotembe
> rg wg_ndx stky_pr_calvo open"""
        - class exit `""`value"""
        = class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx
> stky_pr_calvo open"""


---


> _____ end _eqspec.ite
> m _____
        - class exit `""`s(value)`"""
        = class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx s
> tky_pr_calvo open"""


---


> _____ end _eqlist.e
> q _____
        = local xvarsi `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx s
> tky_pr_calvo open"""
        - local noconsi `""`.eq nocons `i"""


---


> _____ begin _eqlist.e
> q _____
        - version 9.2
        - args item idx

```

```

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

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

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

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

```

```

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

> _____ end _eqlist.e
> q _____
    = local noconsi `"\0"`
    - local dim = `dim' + `:list sizeof xvars'
    = local dim = + 6
    - if "`noconsi'" == "0" {
    = if "0" == "0" {
        - local ++dim
        - }
        - }
    - sreturn local value `"\`dim"`
    = sreturn local value `"\7"`
    - class exit `"\`s(value)"`
    = class exit `"\7"`

> _____ end _eqlist.di
> m _____
    = global ML_dim = 7
    - 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` `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 <= 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_name
> e -----
  - version 9.2
  - capture syntax name(name=c_item) [, NAME DEPvars INDEP]
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]

```

```

        - if c(rc) error 198
        - if `:list sizeof other' {
        = if 0 {
            local other other_markvars
        }
        - local item `name' `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 `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx
> stky_pr_calvo open"""
        - sreturn local value `""`value"""
        = sreturn local value `wlth wg_ndx_mult stky_pr_rotemberg
> wg_ndx stky_pr_calvo open"""
        - class exit `""`value"""
        = class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx s
> tky_pr_calvo open"""


---


> _____ end _eqspec.ite
> m _____
        - class exit `""`s(value)`"""
        = class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stk
> y_pr_calvo open"""


---


> _____ end _eqlist.e
> q _____
        = fvexpand wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_c
> alvo open if __000007
        - if "`r(tsops)' == "true" {
        = if "" == "true" {
            global ML_preserve no
        }
        - local eq_rhs`i' `""`r(varlist)`"""
        = local eq_rhs1 `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx st
> ky_pr_calvo open"""
        - local eq_nocons`i' `.`eqlist'.eq nocons `i``


---



```

```

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


---


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


---


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


---


> _____ end _eqlist.e
> q _____
    = local eq_offset1
    - local eq_exposure`i` `.`.eqlist'.eq exposure `i'


---


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


---


> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item

```

```

- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, exposure


---


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


---


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


---


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


---


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


---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx

```

```

- if ``item'' == "count" {
= if "freeparm" == "count" {
    sreturn local value `".n_eq"
    class exit `"(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 = 1/6 {
        - gettoken xvar TMP : TMP
        - local colna `""`colna` `eq':`xvar"""
        = local colna `"" y_timing_max:wlth"""
        - }
        - gettoken xvar TMP : TMP
        - local colna `""`colna` `eq':`xvar"""
        = local colna `"" y_timing_max:wlth y_timing_max:wg_ndx_mult"""
        - }
        - gettoken xvar TMP : TMP
        - local colna `""`colna` `eq':`xvar"""
        = local colna `"" y_timing_max:wlth y_timing_max:wg_ndx_mult y_
> timing_max:stky_pr_rotemberg"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `""`colna` `eq':`xvar"""
    = local colna `"" y_timing_max:wlth y_timing_max:wg_ndx_mult y_
> timing_max:stky_pr_rotemberg y_timing_max:wg_ndx"""
    - }
    - gettoken xvar TMP : TMP
    - local colna `""`colna` `eq':`xvar"""
    = local colna `"" y_timing_max:wlth y_timing_max:wg_ndx_mult y_
> timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo"
> '
    - }
    - gettoken xvar TMP : TMP
    - local colna `""`colna` `eq':`xvar"""
    = local colna `"" y_timing_max:wlth y_timing_max:wg_ndx_mult y_
> timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo

```

```

> y_timing_max:open""
    - }
    - if `eq_freeparm`i'' {
= if 0 {
    if `nxvars' {
        di as err "{it:xvars} not allowed with option {bf:freeparm}"
        exit 198
    }
    if strpos(`eq''',":") {
        local colna ``colna' `/eq'''
    }
    else {
        local colna ``colna' /:`eq'''
    }
}
- else if !`eq_nocons`i'' {
= else if !0 {
- local colna ``colna' `eq':_cons''
= local colna `` y_timing_max:wlth y_timing_max:wg_ndx_mult y_
> timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo
> y_timing_max:open 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'
        }
    }
}
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 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000009 = J(1,7,0)
- matrix colna `b0' = `colna'
= matrix colna __000009 = y_timing_max:wlth y_timing_max:wg_n
> dx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky
> _pr_calvo y_timing_max:open 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 _____
- gettok 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 option
> n"""
    exit 198
}
- if matrix(rowsof(`matin')!=1 & colsof(`matin')!=1) {
= if matrix(rowsof(__000006)!=1 & colsof(__000006)!=1) {
    di in red ``matin' " matrix(rowsof(`matin')) " x " mat
> rix(colsof(`matin')) " is not a vector"
    exit 503
}
- if matrix(rowsof(`matin')) == 1 {
= if matrix(rowsof(__000006)) == 1 {
    - mat `matout' = `matin'
    = mat __00000B = __000006
    - }
    - else mat `matout' = `matin'
    = else mat __00000B = __000006


---


> _____ end _mkvec.ChkMa
> t _____
    - local i = `i' + 1
    = local i = 1 + 1
    - }
    - mat `matall' = nullmat(`matall') , `matadd'
    = mat __00000A = nullmat(__00000A) , __00000B
    - }
    - while ``i'''!=``{
    = while ""!=`` {
        local k = `i' + 1
        if ``k'''==``{

```

```

        local j = `i' + 2
        `vv' MkMat `matadd' ``i'' ``j'' `skip'
        local i = `i' + 3
    }
    else {
        ChkMat `matadd' ``i'' ``error'''
        local i = `i' + 1
    }
    mat `matall' = nullmat(`matall') , `matadd'
}



---


> _____ end _mkvec.BuildMa
> t _____
- if ``colname''!="
= if `y_timing_max:wlth y_timing_max:wg_ndx_mult y_timing_m
> ax:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo y_timing
> _max:open y_timing_max:_cons''!="
- `vv' ChkNames `mat' ``matin'' ``colname'' ``error''' "
> skip" "first"
= version 18: ChkNames __00000A "__000009" `y_timing_max:wl
> th y_timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wg_n
> dx y_timing_max:stky_pr_calvo y_timing_max:open y_timing_max:_cons" `initi
> al vector: " " "first"



---


> _____ begin _mkvec.ChkName
> s _____
- local vv : display "version " string(_caller()) ":""
- version 6
- args mat matin names error skip first
- local dim = colsof(matrix(`mat'))
= local dim = colsof(matrix(__00000A))
- if ``first''!="
= if "first"!="
- gettoken name : names
- local eq1 = bsubstr(`name',1,index(`name',":"))
= local eq1 = bsubstr(`y_timing_max:wlth',1,index(`y_t
> ming_max:wlth",":"))
- }
- 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(1,7,0)
- local i 1
- while `i' <= `dim' {
= while 1 <= 7 {
- 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 "_:wlth"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:wlth"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wlth, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(stripes)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000B,'_:wlth')
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/_:wlth" != "" {
    `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 <= 7 {
- 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 "_:wg_ndx_mult"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:wg_ndx_mult"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wg_ndx_mult, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname `r(stripes)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000B,"_:wg_ndx_mult"
> )
- if `j' == . & "`oname'" != "" {
= if 2 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 2 == . & "/_:wg_ndx_mult" != "" {
    `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 <= 7 {
  - 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 `""' "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 `"'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 <= 7 {
- 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 "_: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 4 == . & "" != "" {
    `vv' local j = colnumb(`new', `ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 4 == . & "/_:wg_ndx" != "" {
    `vv' local j = colnumb(`new', `sspec')
}
- if `j'==. & "`eq'"=="_" & "`eq1'"!=" {
= if 4==. & "_"=="_" & `y_timing_max:"!="" {
    `vv' local j = colnumb(`new', `eq1`name')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new', `eq1`oname')
    }
}
- if `j'!=. {
= if 4!=. {
- if `fill'[1,`j'] {
= if _00000C[1,4] {
    _ms_parse_parts `name'
    if !r(omit) {
        if "`eq'"=="_"
            di in red ``error'duplicate '' ``entries for `name' fou
> nd''
}
else di in red ``error'' ``duplicate entries for `eq':
> `name' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}

```

```

        }
- else mat `fill'[1,'j']=1
= else mat __00000C[1,4]=1
- mat `new'[1,'j']=`mat'[1,'i']
= mat __00000B[1,4]=__00000A[1,4]
- }
- else if "`skip'"==""
= else if ""==""
if "`eq'"=="_"
local spec : copy local name
}
di in red `"'`error'extra parameter "'`spec' found'"'
> n "specify skip option if necessary"
    exit 111
}
- local i = `i'+1
= local i = 4+1
- }
- while `i' <= `dim'
= while 5 <= 7 {
- 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(stripes)`"'

```

```

        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 <= 7 {
        - mat `x' = `mat'[1,`i'..`i']
        = mat __00000D = __00000A[1,6..6]
        - local eq : coleq `x'
        = local eq : coleq __00000D
        - local name : colname `x'
        = local name : colname __00000D
        - if ``eq'" == "/" {
        = if "_" == "/" {
            local spec "/`name'"
        }
        - else {
            local spec ``eq':`name'"
            local spec "_:open"
            - if (usubstr(``eq'',1,1) != "/") {
            = if (usubstr("_",1,1) != "/") {
                - local sspec "/`eq':`name'"
                = local sspec "/_:open"
            }
            - }
            - local oname
            - local ospec
            - capture _msparse `name', noomit
            = capture _msparse open, noomit
            - if c(rc) == 0 {
            - if r(omit) {
                local oname ``r(stripe)''
                local ospec ``eq':`oname'"
            }
            - }
            - `vv' local j = colnumb(`new','`spec'')
            = version 18: local j = colnumb(__00000B,'`_:open'')
            - if `j' == . & "`oname'" != "" {
            = if 6 == . & "" != "" {
                `vv' local j = colnumb(`new','`ospec'')

```

```

        }
- if `j' == . & ``sspec'' != "" {
= if 6 == . & "/_:*open" != "" {
    `vv' local j = colnumb(`new',``sspec')
}
- if `j'==. & ``eq'''=="_" & ``eq1'''!=""
= if 6==. & "_"=="_" & ``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 <= 7 {
- 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 "_:_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(stripe)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000B,'_:_cons')
- if `j' == . & "`oname'" != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/_:_cons" != "" {
    `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 <= 7 {
mat `x' = `mat'[1,`i'..`i']
local eq : coleq `x'
local name : colname `x'
if ``eq'" == "/"
local spec "/`name'"
}

```

```

else {
local spec "`eq':`name'"
if (usubstr("`eq'",1,1) != "/") {
local sspec "/`eq':`name'"
}
}
local oname
local ospec
capture _msparse `name', noomit
if c(rc) == 0 {
if r(omit) {
local oname `r(stripes)'"
local ospec "`eq':`oname'"
}
}
`vv' local j = colnumb(`new','`spec')"
if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`ospec')"
}
if `j' == . & "`sspec'" != "" {
`vv' local j = colnumb(`new','`sspec')"
}
if `j'==. & "`eq'"=="_" & "`eq1'"!=" {
`vv' local j = colnumb(`new','`eq1'`name')"
if `j' == . & "`oname'" != "" {
`vv' local j = colnumb(`new','`eq1'`oname')"
}
}
if `j'!=. {
if `fill'[1,`j'] {
_ms_parse_parts `name'
if !r(omit) {
if "`eq'"=="_"
di in red `error'duplicate "" "entries for `name' 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 7
    - }
    - }
    - }
    - 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 "7"!=""
- sret local k_fill `fill'
= sret local k_fill 7
- }
- 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(1,7,0)
    - matrix colna `bomit' = `colna'
        = matrix colna _00000A = y_timing_max:wlth y_timing_max:wg_n
> dx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky
> _pr_calvo y_timing_max:open 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(0IM
> 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(0IM 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
    = .__00000B = ._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
    = __00000C = ._optlist.new
    - local argoptlist : list uniq argoptlist
    - foreach name of local argoptlist {
    - `a'.addopt `name'
    = __00000C.addopt CLuster
    -----

```

---

```

> ----- begin _optlist.addop
> t -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(`optspec')
    = local mname = lower("CLuster")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.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 plist robust cluster
- foreach n of local pswallowed {
    local lc = lower(`n`)
    local plist `plist' `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 plist' {
        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.ParseUsemin
> 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_program
> m _____
    - version 10
    - args name
    - capture confirm name `name'
= capture confirm name poiss_lf
    - if c(rc) {
        di as err "unrecognized command: `name' invalid command
> name"
        exit 199
    }
    - capture which `name'
= capture which poiss_lf
    - if !c(rc) {
    - exit

_____ end mopt_check_program
> m _____
    - global ML_stat model
    - if !`interactive' {
= if !0 {
    - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`mo
> 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 DIFFicult HALFSTEPonly D00
> PT SEArch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCL
> EAR NOL0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GR
> ADient HESSian noSKIline 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 "$ML_preserve" != "no" {
= if "no" != "no" {
    if `:length local score' {
        di as smcl as err "May not specify {bf:score()} option unl
> ess" _n "      a) estimation subsample is the entire data in memory, or" _n "
>      b) you specify option {bf:nopreserve} on {bf:ml model} statement (meani
> ng" _n "          your evaluation program explicitly restricts itself to obs"
> _n "          for which {bf:$}" "{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 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 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 0: Log pseudolikelihood = -371.52504



---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K

```

```

- mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
      = mlsum __00000L = -exp(__00000Q) + __00000Q*y_timing_max
> - lngamma(y_timing_max+1)
      - if `todo' == 0 | `lnf'==. {
      = if 0 == 0 | __00000L==. {
      - exit


---


> _____ end poiss_l
> f _____


---


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


---


> _____ end poiss_l
> f _____


---


> _____ begin poiss_l
> f _____
      - version 6
      - args todo b lnf g H score
      - tempvar xb
      - mleval `xb' = `b'
      = mleval __00000Q = __00000K
      - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
      = mlsum __00000L = -exp(__00000Q) + __00000Q*y_timing_max
> - lngamma(y_timing_max+1)
      - if `todo' == 0 | `lnf'==. {
      = if 2 == 0 | __00000L==. {
          exit
      }
      - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
      = qui replace __00000 = y_timing_max - exp(__00000Q) if _

```

```

> _000007
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000L __00000M = __000000
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000L==. {
        exit
    }
    - mllmatsum `lnf' `H' = exp(`xb')
    = mllmatsum __00000L __00000N = exp(__00000Q)


---


> _____ end poiss_l
> f _____
Iteration 1: Log pseudolikelihood = -371.50268


---


> _____ begin poiss_l
> f _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mleval `xb' = `b'
    = mleval __00000Q = __00000K
    - mllsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mllsum __00000L = -exp(__00000Q) + __00000Q*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
    - mllsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+
> 1)
        = mllsum __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
    }
    - mllmatsum `lnf' `H' = exp(`xb')
    = mllmatsum __00000L __00000N = exp(__00000Q)

```

---

```

> _____ end poiss_l
> f _____
Iteration 2: Log pseudolikelihood = -371.50268

```

---

```

> _____ begin mopt_pos
> t _____
    - args b V C wgt tous depvar
    - if `:length local tous' {
    = if 8 {
        - tempname esamp
        - quietly gen byte `esamp' = `touse'
        = quietly gen byte __00000S = __000007
        - }
        - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname
> (`depvar') buildfvinfo

```

```

        = ereturn post __00000Q __00000R [], esample(__00000S) de
> pname(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])"
- }
- }
- tempname cns omit
- capture matrix `cns' = get(Cns)
= capture matrix _00000S = get(Cns)
- if (c(rc)) local cns
- if "`cns'" != "" {
= if "" != "" {
    local k_autoCns = e(k_autoCns)
    if missing(`k_autoCns') {
        local k_autoCns 0
    }
    if rowsof(`cns') == `k_autoCns' {
        local cns
    }
}
- if "`svy'" != "" & "`adjust`svyadjust'" != "" {
= if "" != "" & "" != "" {
    local adjust nosvyadjust
}
- else local adjust
- _ms_omit_info e(b), nocons

```

```

- matrix `omit' = r(omit)
= matrix __00000T = r(omit)
- capture test `spec', `adjust'
= capture test (#1),


---


> _____ begin tes
> t _____
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit
}
- is_svy


---


> _____ begin is_sv
> y _____
- version 8
- syntax [, Regression]
- if "`e(prefix)'" == "svy" {
= if "" == "svy" {
    return scalar is_svy = 1
}
- else if "`regression'" == "" {
= else if "" == "" {
- return scalar is_svy = ("`e(N_psu)'" != "")
= return scalar is_svy = ("" != "")
}
- else {
    capt mat list e(b)
    local rc = _rc
    return scalar is_svy = ("`e(N_psu)'" != "") & (`rc'
> == 0)
}


---



```

```

> _____ end is_svy
> y _____
    - local is_svy = r(is_svy)
    - if replay() & `is_svy' == 0 {
    = if replay() & 0 == 0 {
        _test `0'
        return add
        exit
    }
    - version 8
    - WaldTest `is_svy' `0'
    = WaldTest 0 ([#1]),
_____
> _____ begin test.WaldTes
> t _____
    - gettoken is_svy 0 : 0
    - if ``is_svy'' == "1" {
    = if "0" == "1" {
        if ``e(complete)'' == "available" {
            di as err `must run svy command with "complete" '''
> "option before using this command"
    exit 301
}
}
    - gettoken tok : 0, parse(" (,) bind
    - local single single
    - local zero ```0'''
    = local zero `` ([#1]), """
    - if ```tok''' == "(" {
    = if `"(">' == "(" {
    - local single
    - while ```tok''' == "(" {
    = while `"(">' == "(" {
    - gettoken tok 0 : 0, parse(" (,) match(paren) bind
    - local eqns ```eqns` ```tok'''"
    = local eqns `"[#1]"'
    - gettoken tok : 0, parse(" (,) bind
    - }
    - while ```tok''' == "(" {
    = while `",,"' == "(" {
        gettoken tok 0 : 0, parse(" (,) match(paren) bind
        local eqns ```eqns` ```tok'''"
        gettoken tok : 0, parse(" (,) bind
    }
    - if ```tok''' != "," & ```tok''' != "" {
    = if `",,"' != "," & `",,"' != "" {

```

```

        local single single
    }
}
- if ``single''=="single" {
= if ""=="single" {
    local eqns
    local 0 `zero'
    while ```tok''' != "" & ```tok''' != "," {
        gettoken tok 0 : 0, parse(" ,") bind
        local eqns ```eqns' `tok''
        gettoken tok : 0, parse(" ,") bind
    }
    local eqns `````eqns'`````
}
- syntax [, Accumulate noSVYadjust common CONStant MIN
> imum Mtest Mtest2(passthru) noTest COEF matvlc(passthru) DF(numlist max=1 >0
> ) ]
- if ``df''' != "" {
= if "" != "" {
    local dof = `df'
}
- else if ``e(df_r)''' !="" {
= else if "" !="" {
    local dof = e(df_r)
}
- else {
- local dof = .
- }
- if ```mtest```mtest2''' != "" {
= if `''' != "" {
    if inlist(``e(cmd)'', "svymean", "svytotal", "svyrat
> io") {
        di as err ``mtest option not allowed after `e(cmd)''"
> '
        exit 301
    }
    _mtest syntax, `mtest' `mtest2'
    local mtmethod `r(method)'
}
- if ``mtmethod''' != "" {
= if "" != "" {
    if ``test''' != "" {
        di as err "options mtest and notest may not be combi
> ned"
        exit 198
    }
}

```

```

        if "`accumulate'" != "" {
            di as err "options mtest and accumulate may not be c
> ombined"
            exit 198
        }
    }
    - if `is_svy' {
    = if 0 {
        if "`e(cmd)'" == "margins" {
            local vce "`e(model_vce)'"
        }
        else local vce "`e(vce)'"
        if inlist("`vce'", "bootstrap", "sdr") {
            if missing(`dof') {
                local svyadjust nosvyadjust
            }
        }
    }
    - if !`is_svy' & "`svyadjust'" != "" {
    = if !0 & "" != "" {
        di as err "option nosvyadjust is allowed only with s
> vy data"
        exit 198
    }
    - local svy_adjust = `is_svy' & "`svyadjust'" == ""
    = local svy_adjust = 0 & "" == ""
    - if `svy_adjust' & missing(`dof') & (missing(e(N_psu)
> ) | missing(e(N_strata))) {
        = if 0 & missing(.) & (missing(e(N_psu)) | missing(e(N
> _strata))) {
            di as err "impossible to adjust p-values"
            exit 198
        }
        - if `is_svy' & "`test'" == "" {
        = if 0 & `""' == "" {
            if "`svyadjust'" == "" {
                di _n as txt "Adjusted Wald test"
            }
            else di _n as txt "Unadjusted Wald test"
        }
        - local tmp : subinstr local eqns "====" "", all count(
> local nch)
        - if `nch' > 0 {
        = if 0 > 0 {
            di as err "==== invalid operator"
            exit 198

```

```

        }
- local eqns : subinstr local eqns "==" "=",
- 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(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 "" == "notest" {
        _test , notest
        exit
        }
        - quietly _test , `matvlc'
        = quietly _test ,
        - if `dof' < . {
        = if . < . {
            local testtype F
            tempname F df1 df2 p drop
            if "`r(F)'" != "" {
                scalar `F' = r(F)
                }
                else {
                    scalar `F' = r(chi2)/r(df)
                    }
                    scalar `df1' = r(df)
                    scalar `df2' = `dof'
                    scalar `p' = Ftail(`df1', `df2', `F')
                    scalar `drop' = r(drop)
                    }
                    - else {
                    - local testtype chi2
                    - tempname chi2 df1 p drop
                    - scalar `chi2' = r(chi2)
                    = scalar __00000U = r(chi2)
                    - scalar `df1' = r(df)
                    = scalar __00000V = r(df)
                    - scalar `p' = r(p)
                    = scalar __00000W = r(p)
                    - scalar `drop' = r(drop)

```

```

= scalar __00000X = r(drop)
- }
- local i 1
- while "`r(dropped_`i')'" != "" {
= while "" != "" {
    local dropped_`i' `r(dropped_`i)'
    local ++i
}
- if `svy_adjust' {
= if 0 {
    if "`df'" != "" {
        local svy_d = `df'
    }
    else if !missing(e(df_r)) {
        local svy_d = e(df_r)
    }
    else local svy_d = e(N_psu)-e(N_strata)
    if missing(`svy_d') {
        di as err "internal error in adjustment for svy"
        exit 10001
    }
    if "`testtype'" == "F" {
        scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
    }
    else {
        tempname F df2
        scalar `F' = ((`svy_d'-`df1'+1)/(`svy_d'*`df1')) * `F'
    }
    scalar `df2' = `svy_d' - `df1' + 1
    if `df2' < 0 {
        scalar `F' = .
    }
    scalar `p' = Ftail(`df1', `df2', `F')
    local testtype F
}
- if "`mtmethod'" != "" {
= if "" != "" {
    tempname R r Rr V b VR tm Wald
    mat `V' = e(V)
    mat `b' = e(b)
    mat `Rr' = get(Rr)
    local nb = rowsof(`V')
    local nr = rowsof(`Rr')
    mat `R' = `Rr'[1...,1..`nb']
    mat `VR' = `R'*`V'*`R'
}

```

```

mat `r' = `R'*`b'' - `Rr'[1...,`=nb'+1']
mat `Wald' = `r'*syminv(`VR')*`r'
mat `tm' = J(`nr', 3, .)
mat colnames `tm' = `testtype' df p
forvalues it = 1 / `nr' {
    mat `Wald' = `r'[`it',1]^2 / `VR'[`it','it']
    mat `tm'[`it',1] = `Wald'[1,1]
    mat `tm'[`it',2] = 1
    if `svy_adjust' {
        mat `tm'[`it',3] = Ftail(1,`svy_d',`tm'[`it',1])
    }
    else if "`testtype'" == "chi2" {
        mat `tm'[`it',3] = chi2tail(1,`tm'[`it',1])
    }
    else {
        mat `tm'[`it',3] = Ftail(1,`df2',`tm'[`it',1])
    }
}
if "`mtmethod'" != "noadjust" {
    mtest adjust `tm', mtest(`mtmethod') pindex(3) appe
> nd
    mat `tm' = r(result)
    local pindex 4
}
else local pindex 3
}
- _test, notest
- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    di as txt "      Constraint `dropped_`i'' dropped"
    local ++i
}
- if "`mtmethod'" == "" {
= if "" == "" {
- di
- if "`testtype'" == "chi2" {
= if "chi2" == "chi2" {
- di as txt _col(12) "chi2(`%3.0f `df1' `)" =" as res
> %8.2f `chi2'
= di as txt _col(12) "chi2(`%3.0f __00000V `)" =" as r
> es %8.2f __00000U
- di as txt _col(10) "Prob > chi2 = " as res %8.4f `p
> '
= di as txt _col(10) "Prob > chi2 = " as res %8.4f __
> 00000W

```

```

        - }
        - else {
            di as txt "      F( %3.0f `df1' ,% 6.0f `df2' )"
> =" as res %8.2f `F'
            di as txt _col(13) "Prob > F =" as res %10.4f `p'
        }
        - }
        - else {
            local nexp = rowsof(`tm')
            local nc = colsof(`tm')
            if "`testtype'" == "F" {
                local d "F(df,`='df2')"
                local dip "p > F"
            }
            else {
                local d chi2
                local dip "p > chi2"
            }
            di
            di as txt "{hline 7}{c TT}{hline 30}"
            di as txt " {c |}{ralign 12:`d'}      df{ralign
> 11:`dip'}"
            di as txt "{hline 7}{c +}{hline 30}"
            forvalues it = 1 / `nexp' {
                di as txt "  (`it') {c |}" as res _col(12) %9.2f `t
> m`[`it',1] _col(22) %6.0f `tm`[`it',2] _col(33) %6.4f `tm`[`it','pindex'] as
>  txt "*"
            }
            di as txt "{hline 7}{c +}{hline 30}"
            di as txt "  All {c |}" as res _col(12) %9.2f ``tes
> ttype'" _col(22) %6.0f `df1' _col(33) %6.4f `p'
            di as txt "{hline 7}{c BT}{hline 30}"
            _mtest footer 1 "`mtmethod'" "* "
        }
        - if "`coef'" != "" {
        = if "" != "" {
            Table
        }
        - return scalar p = `p'
        = return scalar p = __00000W
        - return scalar df = `df1'
        = return scalar df = __00000V
        - if "`testtype'" == "F" {
        = if "chi2" == "F" {
            return scalar F = `F'
            return scalar df_r = `df2'

```

```

        }
- else return scalar chi2 = `chi2'
= else return scalar chi2 = _00000U
- return scalar drop = `drop'
= return scalar drop = _00000X
- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    return scalar dropped_`i' = `dropped_`i''
    local ++i
}
- if "`mtmethod'" != "" {
= if "" != "" {
    return matrix mtest `tm'
    return local mtmethod `mtmethod'
}



---


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


---


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


---


> _____ begin tes
> t _____
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit

```

```

        }
- is_svy


---


> begin is_sv
> y begin is_sv
    - 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 end is_sv
    - 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 end tes
    - }
    - 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 .1506283126113737
- 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 wlth wg_ndx
> _mult stky_pr_rotemberg wg_ndx stky_pr_calvo open [] if __000000, nodisplay
>     robust"


---


> _____ end poisson
> n _____
>     - tempname bp

```

```

- mat `bp' = e(b)
= mat __000002 = e(b)
- if "`lrtest'"=="" {
= if "nolrtest"=="" {
    tempname llp
    scalar `llp' = e(ll)
}
-
- else if `"`from'"'=="" {
= else if `""'=="" {
    `vvpoi' capture poisson `y' `xvars' [`weight``exp'] if `touse', `offop
> t' `constan' iter(1)
    tempname bp
    mat `bp' = e(b)
}
-
- if "`constan'"=="" & `"`from'"'=="" {
= if ""=="" & `""'=="" {
- if "`offset'"!=""
= if ""!="" {
    SolveC `y' `offset' [`weight``exp'] if `touse', mean(`mean')
    local c = r(_cons)
}
-
- else local c = ln(`mean')
= else local c = ln(__000001)
- tempname b0 ll0
- if `c'<.
= if .8283739677697126<.
- mat `b0' = (`c', 0)
= mat __000003 = (.8283739677697126, 0)
-
- else mat `b0' = (0, 0)
= else mat __000003 = (0, 0)
- mat colnames `b0' = `y':_cons ln`parm':_cons
= mat colnames __000003 = y_timing_max:_cons lnalpha:_cons
- if "`weight'"=="aweight" {
= if ""=="aweight" {
    local wt `"[aw`exp]"'
}
-
- else if "`weight'"!=""
= else if ""!="" {
    local wt `"[iw`exp]"'
}
-
`nohead' di in gr _n "Fitting constant-only model:"
= di in gr _n "Fitting constant-only model:"

```

```

Fitting constant-only model:
    - `vv' ml model `mm' `prog' (`yname': `y'=, `constan' `offopt') /ln`parm
> ' if `touse' `wt', collinear missing max nooutput nopreserve wald(0) init(`b
> 0', copy) search(off) `mlopts' `robust' nocnsnotes `negh'
    = version 18: ml model e2 nbreg_lf (y_timing_max: y_timing_max=, ) /lna
> lpha if __000000 , collinear missing max nooutput nopreserve wald(0) init(__
> 000003, copy) search(off) robust nocnsnotes negh


---


> _____ begin m
> l _____
    - if _caller()>=11 {
    - mopt `0'
        = mopt model e2 nbreg_lf (y_timing_max: y_timing_max=, ) /lnalpha if
> __000000 , collinear missing max nooutput nopreserve wald(0) init(__000003,
> copy) search(off) robust nocnsnotes negh


---


> _____ begin mop
> t _____
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - gettoken subcmd 0 : 0, parse(" ,")
    - local lcnd : length local subcmd
    - if "`subcmd'" == "clear" {
        = if "model" == "clear" {
            Clear
            exit
        }
    - if `"`subcmd'"' == "hold" {
        = if `model'" == "hold" {
            ml_hold `0'
            exit
        }
    - if `"`subcmd'"' == "unhold" {
        = if `model'" == "unhold" {
            ml_unhold `0'
            exit
        }
    - if "`subcmd'" == "score" {
        = if "model" == "score" {
            if _caller() > 12 {
                `vv' Score `0'
            }
            else {
                Score `0'
            }
            exit
        }
    }

```

```

}
- if ``subcmd'' == "count" {
= if "model" == "count" {
  Count `0'
  exit
}
- if ``subcmd'' == "trace" {
= if "model" == "trace" {
  Trace `0'
  exit
}
- if ``subcmd'' == bsubstr("graph",1,max(2,`lcmd')) {
= if "model" == bsubstr("graph",1,max(2,5)) {
  Graph `0'
  exit
}
- if ``subcmd'' == "init" {
= if "model" == "init" {
  Interactive 0
  `vv' Init `0'
  exit
}
- if ``subcmd'' == bsubstr("maximize",1,max(3,`lcmd')) {
= if "model" == bsubstr("maximize",1,max(3,5)) {
  Interactive 1
  `vv' MaxMin maximize `0'
  exit
}
- if ``subcmd'' == bsubstr("minimize",1,max(3,`lcmd')) {
= if "model" == bsubstr("minimize",1,max(3,5)) {
  Interactive 1
  `vv' MaxMin minimize `0'
  exit
}
- if ``subcmd'' == bsubstr("display",1,max(2,`lcmd')) {
= if "model" == bsubstr("display",1,max(2,5)) {
  Display `0'
  exit
}
- if ``subcmd'' == bsubstr("footnote",1,max(4,`lcmd')) {
= if "model" == bsubstr("footnote",1,max(4,5)) {
  ml_footnote `0'
  exit
}
- if ``subcmd'' == ","
= if "model" == ","

```

```

    Display, `0'
    exit
}
- if ``subcmd'' == bsubstr("model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'
= version 18: capture noi Model e2 nbreg_lf (y_timing_max: y_timing
> _max=, ) /lnalpha if __000000 , collinear missing max nooutput nopreserve w
> ald(0) init(__00003, 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 `""`soptions""' == "" {
= if `""`soptions""' == "" {
    syntax [, diparm(string asis) ]
}
- if ("`execute'" == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options `""`options"""
= sreturn local options `""`search(off)""
- sreturn local diparm `""`diparmopts"""
= sreturn local diparm `"""
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `""`diparm`i"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
    - forval k = 1/`s(k)' {
= forval k = 1/0 {
    local diparm`k' `""`s(diparm`k')"""
}
- local ndiparm `s(k)'
= local ndiparm 0
- local options `""`s(options)"""
= local options `""`search(off)""
- if `interactive' & `:length local options' {
= if 0 & 11 {
    local 0 , `options'

```

```

syntax [, NOTANOPTION]
}
- if `:length local nopreserve' | `:length local score' {
= if 10 | 0 {
- global ML_preserve no
- }
- else global ML_preserve yes
- gettoken evaltype spec : spec
- confirm name `evaltype'
= confirm name e2
- gettoken evaluator spec : spec
- global ML_evaltype : copy local evaltype
- if `:length local srssubpop' {
= if 0 {
    local 0 , srssubpop
    syntax [, NONOPTION]
    exit 198
}
- if `:length local subpop' {
= if 0 {
    local svy svy
}
- if `:length local svy' {
= if 0 {
    opts_exclusive ``vce' `svy'' vce
    if `:length local weight' {
        di as err "svy option not allowed with weights"
        exit 198
    }
    global ML_noadj : copy local svyadjust
}
- global ML_svy : copy local svy
- if _caller() >= 15 & c(userversion) >= 15 {
- local fparm ", freeparm"
}
- local eqspec : copy local spec
- local ieq 0
- while `:length local eqspec' {
= while 42 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim(``eq''),1,1) == "/" {
= if bsubstr(trim(``y_timing_max: y_timing_max=, '')',1,1) == "/"
> {
    local eq = bsubstr(trim(``eq''),2,.)
    local spec : subinstr local spec "/`eq'" `"(``eq'':`fparm')"'', w

```

```

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

```

```

if bsubstr(trim(`eq`),1,1) == "/" {
local eq = bsubstr(trim(`eq`),2,.)
local spec : subinstr local spec "/`eq'" `"(`eq'':`fparm')\"", w
> ord
}
else {
gettken p1 p2 : eq, parse("()")
local p2 = trim(``p2```)
if bsubstr(`p2`,1,1) == "," {
gettken comma p2 : p2, parse(",")
local p2 = trim(``p2```)
}
if ``p1``p2`` == "()" {
local spec : subinstr local spec ``eq'' "(eq`ieq':)", word
}
}
}
}
- if `interactive' {
= if 0 {
SetGlobalVar ML_sample : _MLtua
}
- else {
- global ML_sample : tempvar
- if ``moptobj'' != "" {
= if "" != "" {
global ML_sample `moptobj'$ML_sample
}
- }
- if ``moptobj'' != "" {
= if "" != "" {
cap drop $ML_sample
}
- `vv' mark $ML_sample `if' `in' [`weight``exp'], `zeroweight'
= version 18: mark __000005 if __000000  [],
- tempname eqlist
- .`eqlist' = ._eqlist.new, eqopts(NOCNStant FREEParm) eqargopts(
> OFFset EXPosure) noneedvarlist numdepvars(0) needequal
= __000006 = ._eqlist.new, eqopts(NOCNStant FREEParm) eqargopts(
> OFFset EXPosure) noneedvarlist numdepvars(0) needequal
-class {
-instance:
- array n_depvars
- string needequal
- string noneedvarlist
- string wtypes
- string collinear

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> _____ end _eqlist._ini
> t _____
- ._setup `0'

```

```
= ._setup , eqopts(NOCNStant FREEParm) eqargopts(OFFset EXPosur
> e) noneedvarlist numdepvars(0) needequal
> _____ begin _eqlist._setu
> p _____
    - version 9.2
    - .mark_list = {}
    - .mark_name = {}
    - .mark_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .smark_list = {}
    - .smark_name = {}
    - .smark_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .rmcoll_list = {}
    - .rmcoll_name = {}
    - .rmcoll_opts.reset
> _____ begin _optlist.rese
> t _____
    - version 9
    - .options = {}
    - .names = {}
> _____ end _optlist.rese
> t _____
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset
```

```

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

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

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

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

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

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

```

---

```

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

```

---

```

> _____ end _optlist.addop
> t _____
    - }
    - foreach opt of local eqargopts {
    - .eq_opts_allowed.adopt `opt', passthru
    = .eq_opts_allowed.adopt OFFset, passthru

```

---

```

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

```

---

```

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

```

---

```

> _____ begin _optlist.addop

```

```

> t _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower(``optspec'')
    = local mname = lower("EXPosure")
    - if ``passthru'' != "" {
    = if "passthru" != "" {
        - local optspec `optspec'(passthru)
        = local optspec EXPosure(passthru)
        - }
        - .options.Arppush ``optspec''
        = .options.Arppush "EXPosure(passthru)"
        - .names.Arppush ``mname''
        = .names.Arppush "exposure"
    _____
> _____ end _optlist.addop
> t _____
    - }
    - local i 0
    - foreach opt of local markopts {
        .mark_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local smarkopts {
        .smark_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmcollopts {
        .rmcoll_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmdcollopts {
        .rmdcoll_opts.addopt `opt', passthru
    }
    - .n_depvars.Arrdropall
    - if ``numdepvars'' != "" {
    = if "0" != "" {
        - foreach ndep of local numdepvars {
            - .n_depvars.Arppush `ndep'
            = .n_depvars.Arppush 0
            - }
            - }
        - else .n_depvars.Arppush 1
        - .needequal = ``needequal''
        = .needequal = "needequal"
        - .wtypes = ``wtypes''

```

```

= .wtypes = ""
- .noneedvarlist = "`needvarlist'"
= .noneedvarlist = "noneedvarlist"
- .nocons_ignore = "`ignorenocons'"
= .nocons_ignore = ""

> _____ end _eqlist._setu
> p _____
> _____
> w _____ end _eqlist.ne
> reparm)
> _____
> _____ begin _eqlist.pars
> e _____
- version 9.2
- .__init
> _____
> t _____ begin _eqlist._ini
> t _____
- version 9.2
- .n_eq = 0
- .gl_if = ""
- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}

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

```

```
> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `"""
- local SMARKOPTLIST `""`.smark_opts.dumpoptions"""

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

> _____ end _optlist.dumpoption
> s _____
= local SMARKOPTLIST `"""
- local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions"""

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

> _____ end _optlist.dumpoption
> s _____
= local RMCOLLOPTLIST `"""
- local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""

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

```

= forval i = 1/0 {
    local optlist `optlist' `options[`i']'
}
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `"""
- class exit `""`optlist"""
= class exit `"""

```

---

```

> _____ end _optlist.dumpoption
> s _____
= local RMDCOLLOPTLIST `"""
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARK0
> PTLIST' `RMDCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
= _parse expand EQ GL : 0, gweight common(      COLlinear )
- if `EQ_n' == 0 & "`noneedvarlist'" == "" {
= if 2 == 0 & "noneedvarlist" == "" {
    syntax varlist
}
- local rebind = `EQ_n' == 1
= local rebind = 2 == 1
- if `rebind' {
= if 0 {
    tokenize `""`0"""', parse(",(),[])")
    local rebind = `""`1""' != "(" & `""`2""' == "("
}
- if `rebind' {
= if 0 {
    while `:length local 0' {
        gettoken tok 0 : 0, parse(" ,") bind match(par)
        if "`par'" == "(" {
            gettoken nxt : 0
            local nxt = substr(`""`nxt'''',1,1)
            if inlist(`""`nxt'''', "#", "|") {
                local ZERO `""`ZERO' (`tok')"""
            }
            else {
                local ZERO `""`(`ZERO') (`tok') `0"""
                local 0
            }
        }
        else if inlist(``tok'', "if", "in", ",") {
            local ZERO `""`(`ZERO') `tok' `0"""
            local 0
        }
        else if inlist(substr(`""`tok'''',1,1), "#", "|") {

```

```

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

```

---

```

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

```

```

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



---


> _____ end _eqspec.ne
> w _____
  - .eq_list[`i'].parse `.eq_opts_allowed.objkey':`EQ_`i'
  = .eq_list[1].parse __key(60001384ee40):y_timing_max: y_timing_m
> ax=


---


> _____ begin _eqspec.pars
> e _____
  - version 9.2
  - _on_colon_parse `0'
  = _on_colon_parse __key(60001384ee40):y_timing_max: y_timing_m
> ax=


---


> _____ begin _on_colon_pars
> e _____
  - version 8.2
  - sreturn local before ""
  - sreturn local after ""
  - gettoken before after : 0, parse(":") bind match(par) quot
> es
  - if "`par'" != "" {
  = if "" != "" {
    local before `"(`before')"`
  }
  - if `"`before'"' == ":" {
  = if `"_key(60001384ee40)"' == ":" {
    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(60001384ee40)"'
- 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(60001384ee40)
    - if `:list sizeof ol' {
= if 1 {
    - local OPTLIST `""`.\`ol'.dumpoptions"""

```

---

```

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

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

> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`names.arrnels' {
    = forval i = 1/4 {
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant
    - }
    - local namelist `namelist' `names[`i']'
    = local namelist noconstant 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"]``"
}
- gettoken NAME REST : anything, parse(":")
- if trim(`NAME```") == ":" {
= if trim(`y_timing_max```") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST' {

```

```

= if 2 {
- if strpos(```NAME''', ":") {
= if strpos(`"y_timing_max"', ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname y_timing_max


---


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


---


> _____ end _eqspec._confirm_eqnam
> e _____
- }
- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
    local NAME
}
- gettoken DEPVARS REST : anything, parse("=") 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_depv
> ars') {
            di as err "equal sign required to separate depvars from inde
> pvars"
            exit 198
        }
    }
    local DEPVARS
    local n_deps : list sizeof anything
    if `n_deps' != 0 | ` .needvarlist' {
        if `n_deps' < ` .n_depvars' {
            error 102
        }
        forval j = 1/` .n_depvars' {
            gettoken YY anything : anything
            local DEPVARS `DEPVARS' `YY'
        }
        local INDEPVARS : list retok anything
    }
    loca hasequal 0
}
- else {
- gettoken EQ INDEPVARS : REST, parse("=".)
- local hasequal 1
- }
- if ` :list sizeof DEPVARS' {
= if 1 {
- _fv_check_depvar `DEPVARS'
= _fv_check_depvar 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 = ```DEPVARS'``
= .depvars = `y_timing_max``
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ```:list retok INDEPVARS'``
= .indepvars = ```'
- .other_markvars = ```:list retok OTHER'``
= .other_markvars = ```'
- .nocons = `NOCONS'
= .nocons = 0
- .if = ```HOLDIF'``
= .if = ```'
- .in = ```HOLDIN'``
= .in = ```'
- .wgt = ```HOLDWGT'``
= .wgt = ```'
- .offset = ```OFFSET'``
= .offset = ```'
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'

```

```

> _____ 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(60001384ee40):"lnalpha":, freeparm

> _____ begin _eqspec.pars
> e _____
> - version 9.2
> - _on_colon_parse `0'
> = _on_colon_parse __key(60001384ee40):"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(60001384ee40)" == ":" {
    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(60001384ee40)`"""
- sreturn local after `"`after`"""
= sreturn local after `""lnalpha":, freparm"""

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(60001384ee40)
    - 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 `"$freparm" != "" {
- local OPTIONS ```OPTIONS``SPACE``OPTNAME'``'
= local OPTIONS `"$freparm"
- 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
- .freparm = `FREEPARM'
= .freparm = 1

```

```

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

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

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

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

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

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

```

```

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

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

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

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

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

```

```

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



---


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



---


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



---


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



---


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



---


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

```

```

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


---


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



---


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

```

```

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

```

---

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

```

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

```

    }
}
tempvar markuse
_svys_setup $ML_sample $ML_samp, svy subpop(`subpop')
quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000005
- if "`collinear'" == "" {
= if "collinear" == "" {
    .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if "`missing'" == "" {
= else if "missing" == "" {
    .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000005" != "__000005" {
    `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
    drop `markuse'
}
- local eq_n = `.`eqlist'.eq count'



---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
= if "count" == "count" {
    sreturn local value `".n_eq"'
    sreturn local value `"2"'
    class exit `"`s(value)'"'
= class exit `"2"'



---


> _____ end _eqlist.e
> q _____
    = local eq_n = 2
    - global ML_n : copy local eq_n
    - global ML_dim = `.`eqlist'.dim'



---


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



---



```

```

> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if ``item'' == "count" {
    = if "count" == "count" {
    - sreturn local value ````.n_eq'''
    = sreturn local value ``2'''
    - class exit ````s(value)'''
    = class exit ``2'''

> _____ end _eqlist.e
> q _____
    = local neq = 2
    - forval i = 1/`neq' {
    = forval i = 1/2 {
    - local xvarsi ````.eq indepvars `i''''

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

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

> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {

```

```

        = if 0 {
            local other other_markvars
        }
        - local item `name' `deptr' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
        = local item indepvars
        - if `:list sizeof item' != 1 {
        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item indepvars


---


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


---


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


---


> _____ end _eqlist.e
> q _____
        = local xvarsi `"""
        - local noconsi `""` .eq nocons `i`"""


---


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

```

---

```

> _____ begin _eqspec.ite
> m _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, nocons
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset 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 =  + 0

```

```

- if "`nocons'" == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- local xvarsi `".eq indepvars `i`"


---


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


---


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


---


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

```

```

= c_local item indepvars


---


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



---


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



---


> _____ end _eqlist.e
> q _____
= local xvarsi `"""
- local noconsi `""`.eq nocons `i"""



---


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



---


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



---


> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva

```

```

> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `freeparm' `options'
    = local item      nocons
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {
        error 198
    }
    - c_local `c_item' `item'
    = c_local item nocons


---


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



---


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



---


> _____ end _eqlist.e
> q _____
    = local noconsi ``0'''
    - local dim = `dim' + `:list sizeof xvars'
    = local dim = 1 + 0
    - if ``noconsi'' == "0" {
    = if "0" == "0" {
        - local ++dim
    - }
    - }
    - sreturn local value ```dim'''
    = sreturn local value ``2'''
    - class exit ```s(value)'''
    = class exit ``2'''



---


> _____ end _eqlist.di

```

```

> m -----
= global ML_dim = 2
- forval i = 1/`eq_n' {
= forval i = 1/2 {
- local depvars `.``eqlist'.eq depvars `i''
```

---

```

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

---

```

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

---

```

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

> _____ begin _eqspec._check_eq_item_name
> e _____
>   - version 9.2
>   - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
>   IF IN WGT OTHER NOCONS OFFSET EXPosure FREEParm OPTions ]

```

```

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

> _____ end _eqspec._check_eq_item_name
> e _____
- local value `""`item"""
= local value `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 `"(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 _____
    = fvexpand if __000005
    - if "`r(tsops)" == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)"""
    = local eq_rhs1 `"""
    - local eq_nocons`i' `.`eqlist'.eq nocons `i'''



---


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



---


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



---


> _____ begin _eqspec._check_eq_item_nam
> e _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
    - if c(rc) error 198

```

```

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


---


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



---


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



---


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



---


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

```

---

```

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


---


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


---


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


---


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


---


> _____ end _eqlist.e
> q _____
    = local eq_offset1
    - local eq_exposure`i' `.`eqlist'.eq exposure `i''
```

---

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

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

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

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

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

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

```

```

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


---


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



---


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



---


> _____ end _eqlist.e
> q _____
    = local eq_freeparm1 0
    - local lhs `lhs' `depvars'
    = local lhs y_timing_max
    - local eq_names `eq_names' `eq'
    = local eq_names y_timing_max
    - local nxvars :list sizeof eq_rhs`i'
    = local nxvars :list sizeof eq_rhs1
    - local TMP : copy local eq_rhs`i'
    = local TMP : copy local eq_rhs1
    - forval j = 1/`nxvars' {
    = forval j = 1/0 {
        gettoken xvar TMP : TMP
        local colna `""`colna' `eq':`xvar"""
    }
    - if `eq_freeparm`i' {
    = if 0 {
        if `nxvars' {
            di as err "{it:xvars} not allowed with option {bf:freeparm}"
            exit 198
        }
    }

```

```

if strpos(```eq''', ":") {
local colna ``colna' /`eq'''
}
else {
local colna ``colna' /:`eq'''
}
}
- else if !`eq_nocons`i' {
= else if !0 {
- local colna ``colna' `eq':_cons''
= local colna ``y_timing_max:_cons''
- }
- if ``moptobj'' != "" {
= if "" != "" {
    if ``eq_offset`i''' != "" {
        if usubstr(``eq_offset`i''', 1, 2)=="__" {
            capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
            local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
        }
    }
}
}
- }
- local depvars `.``eqlist'.eq depvars `i''

```

---

```
> _____ begin _eqlist.e
> q _____
```

```

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

```

---

```
> _____ begin _eqspec.ite
> m _____
```

```

- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, depvars

```

---

```
> _____ begin _eqspec._check_eq_item_nam
```

```

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


---


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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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



---


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

```

---

```

> _____ end _eqlist.e
> q _____
= local eq lnalpha
- if `:length local eq' {
= if !7 {
    local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
    di as err "equation ``eq'' multiply defined"
    exit 110
}
- local eqnames `eqnames' `eq'
= local eqnames 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 _____
    = fexpand  if __000005
    - if "`r(tsops)' == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)`"""
    = local eq_rhs2 `"""
    - local eq_nocons`i' `.`eqlist'.eq nocons `i''
```

---

```

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

```

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


---


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


---


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


---


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


---


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


---



```

```

> _____ end _eqlist.e
> q _____
= local eq_nocons2 0
- local eq_offset`i' `.`eqlist'.eq offset `i'
_____
> _____ begin _eqlist.e
> q _____
- version 9.2
- args item idx
- if "`item'" == "count" {
= if "offset" == "count" {
    sreturn local value `""`n_eq"""
    class exit `""`s(value)"""
}
- else if 0 < `idx' & `idx' <= `n_eq' {
= else if 0 < 2 & 2 <= 2 {
- .eq_list[`idx'].item `item'
= .eq_list[2].item offset
_____
> _____ begin _eqspec.ite
> m _____
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, offset
_____
> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars
> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item          offset
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item offset
_____
```

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

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

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

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

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

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



---


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



---


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

```

---

```

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


---


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


---


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


---


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


---


> _____ end _eqlist.e
> q _____
    = local eq_freparm2 1
    - local lhs `lhs' `depvars'

```

---

```

= local lhs 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 _____
- gettoken from 0 : 0, parse(",") bind
- sret clear
- sret local from `from'

```

```

= sret local from __000003
- if ```0'``!=``"
= if `", copy``!=``"
- syntax [, COPY SKIP ]
- }
- sret local copy `copy'
= sret local copy copy
- sret local skip `skip'
= sret local skip


---


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


---


> _____ begin _mkvec.CopyMa
> t _____
- args matall error
- tempname matadd
- local i 3
- while ```i'``!=``"
= while __000003``!=``"
- capture di matrix(``i''[1,1])
= capture di matrix(__000003[1,1])
- if _rc == 0 {
- ChkMat `matadd` ``i'' ``error``
= ChkMat __000009 __000003 ``initial vector: ''


---


> _____ begin _mkvec.ChkMa
> t _____
- args matout matin error
- capture di matrix(``matin''[1,1])
= capture di matrix(__000003[1,1])
- if _rc {
capture confirm number `matin'
if _rc {
di in red ```error'matrix `matin' not found''
exit 111
}
di in red ```error'list of numbers requires copy option''

```

```

        exit 198
    }
- if matrix(rowsof(`matin')!=1 & colsof(`matin')!=1) {
= if matrix(rowsof(_000003)!=1 & colsof(_000003)!=1) {
    di in red ``matin' " matrix(rowsof(`matin')) " x " matrix(
> colsof(`matin')) " is not a vector"
        exit 503
    }
- if matrix(rowsof(`matin')) == 1 {
= if matrix(rowsof(_000003)) == 1 {
- mat `matout' = `matin'
= mat _000009 = _000003
- }
- else mat `matout' = `matin''
= else mat _000009 = _000003

```

---

```

> _____ end _mkvec.ChkMa
> t _____
    - }
    - else {
        capture confirm number ``i''
        if _rc {
            di in red `"'`error'copy option requires "' "either a matrix
> or a list of numbers"
            exit 198
        }
        mat `matadd' = J(1,1,``i'')
    }
- mat `matall' = nullmat(`matall') , `matadd'
= mat _000008 = nullmat(_000008) , _000009
- local i = `i' + 1
= local i = 3 + 1
- }
- while ``i''!=`` {
= while ""!=`` {
        capture di matrix(``i''[1,1])
        if _rc == 0 {
            ChkMat `matadd' ``i'' `"'`error'``'
        }
        else {
            capture confirm number ``i''
            if _rc {
                di in red `"'`error'copy option requires "' "either a matrix
> or a list of numbers"
                exit 198
            }

```

```

    mat `matadd' = J(1,1,``i'')
}
mat `matall' = nullmat(`matall') , `matadd'
local i = `i' + 1
}



---


> _____ end _mkvec.CopyMa
> t _____
- if ``colname''!=`` {
= if ``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)
        tempname C
        capture matrix `C' = e(Cns)
        local rcc = c(rc)
        }
        local rc = c(rc)
        ereturn clear
        }
        if (`rc') exit `rc'
        if (`rcc') {
        local C
        local k_autoCns
        }

```

```

        }
- if `:length local constraints' {
= if 0 {
    local lf0
}
- local vce `vce' `robust' `cluster'
= local vce  robust
- if `:length local vce' {
= if 6 {
    - _vce_parse, argoptlist(CLuster) optlist(0IM OPG Robust) old : `w
> t', `vce'
        = _vce_parse, argoptlist(CLuster) optlist(0IM OPG Robust) old : ,
> robust


---


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


---


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

```

```

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


---


> _____ end _on_colon_pars
> e _____
    - local 0 `"\`s(before)`"
    = local 0 `", argoptlist(CLuster) optlist(OIM OPG Robust) old `"
    - local user `"\`s(after)`"
    = local user `", robust`"
    - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist
> (namelist) PWhallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
    - local touse `varlist'
    = local touse
    - tempname o a
    - .`o' = ._optlist.new
    = .__000009 = ._optlist.new
    - local optlist : list uniq optlist
    - foreach name of local optlist {
    - .`o'.addopt `name'

```

```

= .__000009.addopt OIM


---


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


---


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


---


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


---


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


---


> _____ begin _optlist.addop
> t _____

```

```

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


---


> _____ end _optlist.addop
> t _____
    - }
    - `a' = ._optlist.new
= __0000A = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- `a'.adopt `name'
= __0000A.adopt CLuster


---


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


---


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


---


> _____ begin _optlist.dumpname
> s _____
    - version 9

```

```

- forval i = 1/`names.arrnels' {
= forval i = 1/3 {
- local namelist `namelist' `names[`i']'
= local namelist oim
- }
- local namelist `namelist' `names[`i']'
= local namelist oim opg
- }
- local namelist `namelist' `names[`i']'
= local namelist oim opg robust
- }
- local namelist : list uniq namelist
- sreturn local namelist `"`namelist```"
= sreturn local namelist `"`oim opg robust```"
- class exit `"`namelist```"
= class exit `"`oim opg robust```"

```

---

```

> _____ end _optlist.dumpname
> s _____
= local OPTNAMES `"`oim opg robust```"
- local ARGOPTNAMES `"``a'.dumpnames```"

```

---

```

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

```

---

```

> _____ end _optlist.dumpname
> s _____
= local ARGOPTNAMES `"`cluster```"
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
    di as err "vcetype `:word 1 of `AND'`' specified twice"
    exit 198
}
- local pswallowed : list uniq pswallowed

```

```

- local pwlist robust cluster
- foreach n of local pwallowed {
    local lc = lower(`n`)
    local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
- }
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
- }
- }
- local 0 `""`user"""
= local 0 `", robust"
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varnam
> e) ]
- if `""`vce""' != "" {
= if `""' != "" {
    gettoken name args : vce, parse(" ,")
    local args : list retok args
    capture ParseVCE `o' `a' , `name'
    if c(rc) {
        di as err "vcetype {bf:`name'} not allowed"
        exit 198
    }
    local name `r(vce)'
    if `weight'" == "pweight" & !`:list name in pwlist' {
        di as err "pweights are not allowed with vce(`name')"
        exit 198
    }
    return add
    if `""`robust""' != "" & !inlist(`name","",,"robust","eim","oi
> m","cluster") {
        opts_exclusive "`robust' vce(`name')"
    }
    if `name'" == "cluster" {
        if `args'" == "" {
            di as err "invalid vce(cluster) option"
            exit 198
    }
}

```

```

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

```

```

    - return local vceargs `"`args`"
= return local vceargs `"""
- }
- if "`return(vce)`" != "" {
= if "robust" != "" {
- if `"`return(vceargs)`" != "" {
= if `""` != "" {
    local ss "
}
- return local vceopt `"


---



```

> _____ end _vce_pars
> e _____
    - local vce `r(vce)`
= local vce robust
- }
- else if `"

```


```

```

- 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_progra

```

```

> m -----
    - version 10
    - args name
    - capture confirm name `name'
    = capture confirm name nbreg_lf
    - if c(rc) {
        di as err "unrecognized command: `name' invalid command name
> "
        exit 199
    }
    - capture which `name'
    = capture which nbreg_lf
    - if !c(rc) {
    - exit
-----
> ----- end mopt_check_program
> m -----
    - global ML_stat model
    - if !`interactive' {
    = if !0 {
    - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptob
> j ')
    = version 18: MaxMin maximize, nooutput search(off) moptobj()
-----
> ----- begin mopt.MaxMi
> n -----
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - ChkMacros
-----
> ----- begin mopt.ChkMacro
> s -----
    - if "$ML_stat" != "model" {
    = if "model" != "model" {
        di as err "you must issue -ml model- first"
        exit 198
    }
    - capture confirm var $ML_samp $ML_w $ML_subv
    = capture confirm var __000005 __000005
    - if c(rc) {
        di as err "Since issuing the -ml model- statement, you have
> done something to drop" _n "temporary variables ml added to your data. You
> must start again."
        Clear
        exit 111
    }

```

---

```

> _____ end mopt.ChkMacro
> s _____
  - syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0)
> LTOLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) Q
> TOLerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numlist m
> ax=1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly DOOPT S
> EArch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCLEAR
> NOL0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GRADie
> nt Hessian noSKIpline noOUTput Level(cilevel) moptobj(string) * ]
  - if `:length local nrtolerance' {
= if 0 {
  opts_exclusive "nrtolerance() `nonnrtolerance'"
}
  - if `:length local qtolerance' {
= if 0 {
  opts_exclusive "qtolerance() `nonnrtolerance'"
}
  - opts_exclusive "`nonnrtolerance' `shownnrtolerance'"
= opts_exclusive " "

```

---

```

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

```

---

```

> _____ end opts_exclusiv
> e _____
  - if `:length local shownnrtolerance' {
= if 0 {
  local showtolerance showtolerance
}
  - if "$ML_preserve" != "no" {
= if "no" != "no" {
  if `:length local score' {

```

```

        di as smcl as err "May not specify {bf:score()} option unless"
> _n "      a) estimation subsample is the entire data in memory, or" _n "
> b) you specify option {bf:nopreserve} on {bf:ml model} statement (meaning"
> _n "          your evaluation program explicitly restricts itself to obs" _n
> "          for which {bf:$}" "{bf:ML_samp==1}.""
        exit 198
    }
preserve
local N = c(N)
quietly keep if $ML_sample
if (`N' != c(N)) {
    mata: Mopt_init_regetviews()
}
}
- if `:length local score' {
= if 0 {
    SetupScore `"$ML_evaltype"' `"`score'"' $ML_n $ML_dim
    local scores "`s(scores)'"
}
- _parse_iterlog, `nolog' `log'
= _parse_iterlog,

```

---

```

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

```

---

```

> _____ end _parse_iterlo
> g _____
    - local log "`s(nolog)'"
= local log ""

```

```

    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `
> coefdiffs'
    = local tropts
    - if "`tropts'" != "nolog" {
    = if "" != "nolog" {
    - local tropts `tropts' `gradient' `hessian'
    = local tropts
    - if "`skipline'" == "" {
    = if "" == "" {
    - if "`iterate'" != "0" | `:length local tropts' {
    = if "" != "0" | 0 {
    - di

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



---


> _____ begin nbreg_l
> f _____
    - version 6.0

```

```

    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile llnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        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 __000
> 05
            - if `lnalpha'<-20 {
            = if __00000R<-20 {
                replace `sc1' = `y'-`mu' if $ML_samp
                replace `sc2' = 0 if $ML_samp
            }
            - else {
                - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
                = replace __00000N = __00000V*(y_timing_max-__00000U) if __000
> 005
                - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
                = replace __00000 = __00000S*(digamma(__00000S) - digamma(y_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(y_timing_max-__00000U) if __
> 000005

```

```

    - }
    - }
    - $ML_ec 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-__0000U)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(y
> _timing_max-__0000U), eq(1,2)
        - mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __00000K __00000Z = __00000S*(digamma(__00000S) - d
> igamma(y_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(y_timing_m
> ax+__00000S) - trigamma(__00000S)) + __00000U*__00000V*(__00000W*__00000V*(
> y_timing_max-__0000U)- 1), eq(2)
        - }
        - matrix `H' = (`d11','`d12'\ `d12'',`d22')
        = matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)

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

```

```

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

```

```

        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__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 | __0000K==. { exit }



---


> _____ end nbreg_l
> f _____
> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __0000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __0000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __0000S = exp(-__0000R)
    - if `lnalpha' < -20 {
    = if __0000R < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__0000S+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 | __0000K==. { exit }



---


> _____ end nbreg_l
> f _____

```

```

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

```

```

= if __00000R < -20 {
    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 __00000 = __00000S*(digamma(__00000S) - digamma(y_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(y_timing_max-__00000U) if __
> 000005
            - }
            - }
            - $ML_ec tempfile g1 g2
            = * tempfile g1 g2
            - $ML_ec mlecsu `lnf' `g1' = `sc1', eq(1)
            = * mlecsu __00000K = __00000N, eq(1)
            - $ML_ec mlecsu `lnf' `g2' = `sc2', eq(2)
            = * mlecsu __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-__0000U)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
= mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(y
> _timing_max-__0000U), eq(1,2)
- mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m)*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
= mlmatsum __00000K __00000Z = __00000S*(digamma(__00000S) - d
> igamma(y_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(y_timing_m
> ax+__00000S) - trigamma(__00000S)) + __00000U*__00000V*(__00000W*__00000V*(
> y_timing_max-__0000U)- 1), eq(2)
-
- matrix `H' = (`d11',`d12' \ `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
- 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 lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __00000K==. { exit }
        - tempfile alpha
        - tempvar mu p
        - quietly {
            - gen double `mu' = exp(`xb') if $ML_samp
            = gen double __00000U = exp(__00000Q) if __000005
            - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
            = gen double __00000V = 1/(1+exp(__00000Q+__00000R)) if __000
> 05
    - if `lnalpha'<-20 {
    = if __00000R<-20 {
        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
    - else {
        - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
        = replace __00000N = __00000V*(y_timing_max-__00000U) if __000

```

```

> 005
      - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-'mu') if $ML_samp
      = replace __00000 = __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 __0000M = (__0000X,__0000Y \ __0000Y',__0000Z)

```

---

```

> _____ end nbreg_l
> f _____
Iteration 2: Log pseudolikelihood = -414.22879
_____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000K==. { exit }
    _____ end nbreg_l
> f _____
_____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000Q = __00000J, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000R = __00000J, eq(2) scalar

```

---

```

- local y "$ML_y1"
= local y "y_timing_max"
- scalar `m' = exp(`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    msum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- msum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= msum __00000K = lngamma(__00000S+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R)) -
> y_timing_max*ln1p(exp(-__00000Q-__00000R))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000K==. { exit }



---


> _____ end nbreg_l
> f _____


---


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

```

```

- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __00000K==. { exit }
- 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 {
    mllmatsum `lnf' `d11' = `mu', eq(1)
    mllmatsum `lnf' `d12' = 0, eq(1,2)
    mllmatsum `lnf' `d22' = 0, eq(2)
}
- else {

```

```

- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
      = mlmatsum __00000K __00000X = __00000U*__00000V*(__00000W*__0
> 0000V*(y_timing_max-__00000U)+1), eq(1)
      - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
      = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(y
> _timing_max-__00000U), eq(1,2)
      - mlmatsum `lnf' `d22' = `m)*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m)*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
      = mlmatsum __00000K __00000Z = __00000S*(digamma(__00000S) - d
> igamma(y_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(y_timing_m
> ax+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__00000V*(
> y_timing_max-__00000U)- 1), eq(2)
      - }
      - matrix `H' = (`d11',`d12' \ `d12'',`d22')
      = matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)

> _____ end nbreg_l
> f _____
Iteration 3: Log pseudolikelihood = -414.22879

> _____ 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 = __000005
      - }
      - ereturn post `b' `V' `C' `wgt', esample(`esamp') depname(`de
> pvar') buildfvinfo
      = ereturn post __00000Q __00000R [], esample(__00000S) depnam
> e(y_timing_max) buildfvinfo

> _____ end mopt_pos
> t _____
      - ereturn scalar k_eq_model = abs($ML_waldtest)
      = ereturn scalar k_eq_model = abs(0)
      - if `:length global ML_ll_0' {
      = if 0 {
      - ereturn scalar ll_0 = $ML_ll_0
      if `:length global ML_rank0' {
      - ereturn scalar rank0 = $ML_rank0

```

```

        ereturn scalar df_m = e(rank) - $ML_rank0
    }
    else ereturn scalar df_m = e(rank) - $ML_k0
}
- if !`:length global ML_ll_0' | inlist(e(vce), "robust", "clust
> er", "linearized") {
    = if !0 | inlist(e(vce), "robust", "cluster", "linearized") {
    - if "$ML_svy" == "" {
    = if "" == "" {
    - _prefix_model_test, minimum


---


> _____ begin _prefix_model_tes
> t _____
    - version 9
    - syntax [name(name=cmd)] [, svy noADJust noSVYadjust MINimum
> ]
    - if (inlist(`cmd',"asmixlogit","cmmixlogit","cmxtmixlogit")
> ) {
    = if (inlist("", "asmixlogit", "cmmixlogit", "cmxtmixlogit")) {
        _asmixtest, `svy' `adjust' `svyadjust'
        exit
    }
    - local K = 1
    - if "`e(k_eq_model)' != "" {
    = if "0" != "" {
        capture confirm integer number `e(k_eq_model)'
        capture confirm integer number 0
        - if ! c(rc) {
        - local K = e(k_eq_model)
        - }
        - }
        - if "`e(k_eq_model_skip)' != "" {
        = if "" != "" {
            capture confirm integer number `e(k_eq_model_skip)'
            if ! c(rc) {
            local skip = e(k_eq_model_skip)
            }
            }
        - ereturn local df_m
        - ereturn local F
        - ereturn local chi2
        - ereturn local chi2type
        - ereturn local p
        - if (`K' == 0) {
        = if (0 == 0) {
        - exit

```

---

```
> _____ end _prefix_model_tes
> t _____
- }
- else {
    _prefix_model_test, $ML_svy $ML_noadj
}
-
- else if `:length global ML_ll_0' {
= else if 0 {
    if `"`maxmin`"' == "minimize" {
        ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
    }
    else {
        ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
    }
    ereturn scalar p = chi2tail(e(df_m), e(chi2))
    ereturn local chi2type "LR"
}
-
if `:length global ML_wexp' {
= if 0 {
    ereturn local wtype `"$ML_wtyp"'
    ereturn local wexp `"$ML_wexp"'
}
-
if `:length global ML_group' {
= if 0 {
    ereturn local group `"$ML_group"'
    if `"`e(clustvar)`"' == "$ML_grp" & "$ML_grp" != "" {
        ereturn local clustvar `"$ML_group"'
    }
}
-
ereturn local cmd "ml"
-
if `:length local score' {
= if 0 {
    mata: Mopt_score(0)
    ereturn local scorevars `scores'
}
-
if "$ML_preserve" != "no" {
= if "no" != "no" {
    restore
    if `"`e(prefix)`"' == "svy" & e(N_strataomit) {
        tempname v
        quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v')
}
-
subpop(`e(subpop)') touse($ML_sample)
}
-
ereturn repost, esample($ML_sample)
```

```

        }
- if `"`moptobj"" != "" {
= if `"" != "" {
    local clear noclear
}
- if `:length local clear' {
= if !0 {
- Clear


---


> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop __000005
    - capture drop $ML_samp
    = capture drop __000005
    - capture drop $ML_sample
    = capture drop __000005
    - capture drop $ML_subv
    = capture drop
    - capture drop $ML_grp
    = capture drop
    - mata: Mopt_drop_external()
    - macro drop ML_*


---


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


---


> _____ end mopt.MaxMi
> n _____
    - }


---


> _____ end mopt.Mode
> l _____
    - if c(rc) {

```

```

local rc = c(rc)
Clear
exit `rc'
}
- exit


---


> _____ end mop
> t _____
- exit


---


> _____ end m
> l _____
- mat `b0' = e(b)
= mat __000003 = e(b)
- scalar `ll0' = e(ll)
= scalar __000004 = e(ll)
- local continu "continue"
- }
- if `""`from'""=="" {
= if `""'=="" {
- if ``constan'""=="" {
= if ""=="" {
- local dim = colsof(`bp')
= local dim = colsof(__000002)
- if `dim' > 1 {
= if 7 > 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[1,7] = __000002[1,7] + __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"]'''
    }
    - tempfile llnalpha m
    - scalar `llnalpha' = `b0'
    = scalar __000006 = __000003[1,2]
    - local bound -20
    - if `llnalpha' < `bound' { scalar `llnalpha' = `bound' }
    = if __000006 < -20 { scalar __000006 = -20 }
    - scalar `m' = exp(-`llnalpha')
    = scalar __000007 = exp(-__000006)
        - qui replace `z' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m') -
> `m'*ln1p(exp(`z'+`llnalpha')) - `y'*ln1p(exp(-`z'-`llnalpha')) `if'
        = qui replace __000005 = lngamma(__000007+y_timing_max) - lngamma(y_ti
> ming_max+1) - lngamma(__000007) - __000007*ln1p(exp(__000005+__000006)) - y_
> timing_max*ln1p(exp(-__000005-__000006)) if __000000
            - summarize `z' `wt' `if', meanonly
            = summarize __000005 if __000000, meanonly
            - if r(N) != `nobs' { exit }
            = if r(N) != 221 { exit }
            - if "`weight'"=="aweight" {
            = if ""=="aweight" {
                ret scalar lnf = r(N)*r(mean)
            }
            - else ret scalar lnf = r(sum)


---


> _____ end nbreg.LLalph
> a _____
    - if r(lnf) > `ll0' & r(lnf)<. {
    = if r(lnf) > __000004 & r(lnf)<. {
        - local initopt "init(`bp')"
        = local initopt "init(__000002)"

```

```

- }
- }
- if "`initopt'"=="" {
= if "init(_000002)"=="" {
    local initopt "init(`b0')"
}
- }
- else {
    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=wlth wg_n
> dx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open, ) /lnalpha if __000000
> [], collinear missing max nooutput nopreserve init(__000002) search(off)
> robust vce(robust) continue title(Negative binomial regression) diparm(lnalp
> ha, exp label("alpha")) negh
```

---

```

> _____ begin m
> l _____
    - if _caller()>=11 {
    - mopt `0'
    = mopt model e2 nbreg_lf (y_timing_max: y_timing_max=wlth wg_ndx_mult
> stky_pr_rotemberg wg_ndx stky_pr_calvo open, ) /lnalpha if __000000 [], col
> linear missing max nooutput nopreserve init(__000002) search(off) robust v
> ce(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 lcmd : length local subcmd  
- if ``subcmd'' == "clear" {  
= if "model" == "clear" {  
    Clear  
    exit  
}  
- if ```subcmd''' == "hold" {  
= if ``model'' == "hold" {  
    ml_hold `0'  
    exit  
}  
- if ```subcmd''' == "unhold" {  
= if ``model'' == "unhold" {  
    ml_unhold `0'  
    exit  
}  
- if ```subcmd'' == "score" {  
= if "model" == "score" {  
    if _caller() > 12 {  
        `vv' Score `0'  
    }  
    else {  
        Score `0'  
    }  
    exit  
}  
- if ```subcmd'' == "count" {  
= if "model" == "count" {  
    Count `0'  
    exit  
}  
- if ```subcmd'' == "trace" {  
= if "model" == "trace" {  
    Trace `0'  
    exit  
}  
- if ```subcmd'' == bsubstr("graph",1,max(2,`lcmd')) {  
= if "model" == bsubstr("graph",1,max(2,5)) {  
    Graph `0'  
    exit  
}
```

```

- if ``subcmd'' == "init" {
= if "model" == "init" {
    Interactive 0
    `vv' Init `0'
    exit
}
- if ``subcmd'' == bsubstr("maximize",1,max(3,`lcmd')) {
= if "model" == bsubstr("maximize",1,max(3,5)) {
    Interactive 1
    `vv' MaxMin maximize `0'
    exit
}
- if ``subcmd'' == bsubstr("minimize",1,max(3,`lcmd')) {
= if "model" == bsubstr("minimize",1,max(3,5)) {
    Interactive 1
    `vv' MaxMin minimize `0'
    exit
}
- if ``subcmd'' == bsubstr("display",1,max(2,`lcmd')) {
= if "model" == bsubstr("display",1,max(2,5)) {
    Display `0'
    exit
}
- if ``subcmd'' == bsubstr("footnote",1,max(4,`lcmd')) {
= if "model" == bsubstr("footnote",1,max(4,5)) {
    ml_footnote `0'
    exit
}
- if ``subcmd'' == "," {
= if "model" == "," {
    Display, `0'
    exit
}
- if ``subcmd'' == bsubstr("model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'
= version 18: capture noi Model e2 nbreg_lf (y_timing_max: y_timing
> _max=wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open, ) /lnalp
> ha if __000000 [], collinear missing max nooutput nopreserve init(__000002)
> search(off) robust vce(robust) continue title(Negative binomial regression
> ) diparm(lnalpha, exp label("alpha")) negh


---


> _____ begin mopt.Mode
> l _____
    - local version = string(_caller())
    - local vv : di "version `version':"

```

```

= local vv : di "version 18:"
- version 12
- syntax anything(id="model" name=spec) [if] [in] [fw aw pw iw] [,,
> BRACKET COLlinear MISSing CONTinue lf0(string) INIT(string) CONStraints(str
> ing) nocNSNOTes VCE(passthru) NEGH NOPREserve TECHnique(string) ITERID(strin
> g) CRITtype(string) OBS(numlist max=1 >0) TItle(string) WALDtest(integer -1)
> SVY SUBpop(string) SRSSubpop noSVYadjust SCore(passthru) noOUTput noSCVARS
> GROUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIVSC
> ALE(string) DERIV(string) nrderiv GNWMATrix(string) KAUxiliary(numlist int >
> =0) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru) m
> optobj(string) USEVIEWS * ]
- if `moptobj' == "" {
= if "" == "" {
- Clear


---


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


---


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


---


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

```

```

- while `"`opts`"" != "" {
= while `""maximize"" != "" {
- local ++n
- gettoken item`n' opts : opts, bind
= gettoken item1 opts : opts, bind
- }
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 1 < 2 {
- exit


---


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


---


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


---


> _____ begin _get_diparmopts.SpliceGlobal
> s _____
- syntax name(id="macro name" name=c_diparm) [, diparm(string
> asis) Level(cilevel) dof(passthru) syntaxonly ]
    - if `"`dof`"" == "" & `"`e(df_r)`"" != "" {

```

```

= if `""' == "" & `""' != "" {
    capture confirm integer number `e(df_r)'
    if !c(rc) {
        local gdof dof(`e(df_r)')
    }
    capture
}
- else local gdof `"`dof`"'
= else local gdof `""'
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (`"`diparm`"' == "") exit
= if (`""' == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts`"'
= local 0 `", search(off) diparm(lnalpha, exp label("alpha"))`"'
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while `"`diparm`"' != "" {
= while `"`lnalpha, exp label("alpha")`"' != "" {
- local ++k
- local single 1
- local after
- capture _on_colon_parse `diparm'
= capture _on_colon_parse lnalpha, exp label("alpha")


---


> _____ begin _on_colon_pars
> e _____
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quotes
- if `"`par`"' != "" {
= if "" != "" {
    local before `"(`before')"`
}
- if `"`before`"' == ":" {
= if `"`lnalpha, exp label("alpha")`"' == ":" {
    sreturn local after `"`after`"'
    exit
}

```

```

- while `"\`COLON`"" != ":" & `"\`after`"" != "" {
= while `""` != ":" & `""` != "" {
    gettoken COLON after : after, parse(":") bind match(par) quo
> tes
    if "`par'" != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if `"\`COLON`"" != ":" {
        local before `"\`before' `COLON`"
        local COLON
    }
    - if `"\`COLON`"" != ":" {
= if `""` != ":" {
    - di as err "' found where ':' expected"
    - exit 198
}


---


> _____ end _on_colon_pars
> e _____
    - if !c(rc) {
        local single 0
        local diparm `"\`s(before)`""'
        local after `"\`s(after)`""'
    }
    - capture
    - SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptions
> '
    = SpliceGlobals diparm , diparm(lnalpha, exp label("alpha")) syn
> taxonly


---


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

```

        - local glevel `level'
        = local glevel 95
        - local lopt level(`glevel')
        = local lopt level(95)
        - if (`"`diparm'"' == "") exit
        = if (`"lnalpha, exp label("alpha")'"' == "") exit
        - local 0 `diparm'
        = local 0 lnalpha, exp label("alpha")
        - syntax anything(id="eqname(s)" name=eqspecs) [, Level(passth
> ru) dof(passthru) * ]
        - if ("`eqspecs'"' == "__sep__") exit
        = if ("`lnalpha'"' == "__sep__") exit
        - if "`level'"' == "" {
        = if "" == "" {
        - local lopt level(`glevel')
        = local lopt level(95)
        - }
        - else local lopt `level'
        = else local lopt
        - if '`dof'"' == "" {
        = if `""'" == "" {
        - local dof `""`gdof'"'
        = local dof `""'
        - }
        - if "`syntaxonly'"' == "" {
        = if "syntaxonly" == "" {
        c_local `c_diparm`"`eqspecs', `options' `lopt' `dof'"'
        }
        - else {
        - c_local `c_diparm`"`diparm'"'
        = c_local diparm `"lnalpha, exp label("alpha")'"'
        - }
      
```

---

```

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

```

```

    local diparm `""`after"""
    }
  - }
  - while `""`diparm"" != "" {
= while `""` != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
      local single 0
      local diparm `""`s(before)"""
      local after `""`s(after)"""
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptions
> '
    local diparm`k' `""`diparm"""
    local diparmopts `""`diparmopts' : `diparm"""
    if `single' | `""`:list retok after"" == "" {
      local 0 `", `options"""
      syntax [, diparm(string asis) * ]
    }
    else {
      local diparm `""`after"""
    }
  - if `""`soptions"" == "" {
= if `""`soptions"" == "" {
      syntax [, diparm(string asis) ]
    }
  - if (``execute"" == "") {
= if (`" == "") {
    sreturn clear
  - sreturn local options `""`options"""
= sreturn local options `""`search(off)"""
  - sreturn local diparm `""`diparmopts"""
= sreturn local diparm `": 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 `"\lnalpha, exp label("alpha")"""
- }
- local ndiparm `s(k)'
= local ndiparm 1
- local options `""\`s(options)"""
= local options `"\search(off)"'
- if `interactive' & `:length local options' {
= if 0 & 11 {
    local 0 , `options'
    syntax [, NOTANOPTION]
}
- if `:length local nopreserve' | `:length local score' {
= if 10 | 0 {
- global ML_preserve no
}
- else global ML_preserve yes
- gettoken evaltype spec : spec
- confirm name `evaltype'
= confirm name e2
- gettoken evaluator spec : spec
- global ML_evaltype : copy local evaltype
- if `:length local srssubpop' {
= if 0 {
    local 0 , srssubpop
    syntax [, NONOPTION]
    exit 198
}
- if `:length local subpop' {
= if 0 {
    local svy svy
}
- if `:length local svy' {
= if 0 {
    opts_exclusive "\`vce' `svy'" vce
    if `:length local weight' {
        di as err "svy option not allowed with weights"
        exit 198
}
    global ML_noadj : copy local svyadjust
}
```

```

- global ML_svy : copy local svy
- if _caller() >= 15 & c(userversion) >= 15 {
-   local fparm ", freeparm"
- }
- local eqspec : copy local spec
- local ieq 0
- while `:length local eqspec' {
= while 102 {
-   local ++ieq
-   gettoken eq eqspec : eqspec, bind
-   if bsubstr(trim(`eq'),1,1) == "/" {
= if bsubstr(trim("(y_timing_max: y_timing_max=wlth wg_ndx_mult st
> ky_pr_rotemberg wg_ndx stky_pr_calvo open, )"),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=wlth wg_ndx_mult st
> ky_pr_rotemberg wg_ndx stky_pr_calvo open, )")
-   if bsubstr(`p2',1,1) == "," {
= if bsubstr("y_timing_max: y_timing_max=wlth wg_ndx_mult stky_pr_
> rotemberg wg_ndx stky_pr_calvo open, ),1,1) == "," {
      gettoken comma p2 : p2, parse(",")
      local p2 = trim(``p2''')
    }
- if ``p1``p2''' == "()" {
= if `(y_timing_max: y_timing_max=wlth wg_ndx_mult stky_pr_rotemb
> erg wg_ndx stky_pr_calvo open, )'" == "()" {
      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 __000006 if __000000  [],
- tempfile 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(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 rmcoll opts {

```

```

    .rmcoll_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmdcollopts {
    .rmdcoll_opts.addopt `opt', passthru
}
- .n_depvars.Arrdropall
- if "`numdepvars'" != "" {
= if "0" != "" {
- foreach ndep of local numdepvars {
- .n_depvars.Arppush `ndep'
= .n_depvars.Arppush 0
- }
- }
- else .n_depvars.Arppush 1
- .needequal = "`needequal'"
= .needequal = "needequal"
- .wtypes = "`wtypes'"
= .wtypes = ""
- .noneedvarlist = "`needvarlist'"
= .noneedvarlist = "noneedvarlist"
- .nocons_ignore = "`ignorenocons'"
= .nocons_ignore = ""



---


> _____ end _eqlist._setu
> p _____


---


> _____ end _eqlist.ne
> w _____
    - .`eqlist'.parse `spec'
    = .__000007.parse  (y_timing_max: y_timing_max=wlth wg_ndx_mult st
> ky_pr_rotemberg wg_ndx stky_pr_calvo open, ) ("lnalpha":, freeparm")


---


> _____ begin _eqlist.pars
> e _____
    - version 9.2
    - ._init


---


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

```

```

- .eq_list = {}

> _____ end _eqlist._ini
> t _____
- local MARKOPTLIST `".mark_opts.dumpoptions"`

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

> _____ end _optlist.dumpoption
> s _____
= local MARKOPTLIST `""'
- local SMARKOPTLIST `".smark_opts.dumpoptions"`

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

> _____ end _optlist.dumpoption
> s _____
= local SMARKOPTLIST `""'
- local RMCOLLOPTLIST `".rmcoll_opts.dumpoptions"`

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

```

```

        = forval i = 1/0 {
            local optlist `optlist' `.`options[`i']'
        }
        - local optlist : list uniq optlist
        - sreturn local optlist `""`optlist"""
        = sreturn local optlist `"""
        - class exit `""`optlist"""
        = class exit `"""



---


> _____ end _optlist.dumpoption
> s _____
    = local RMCOLLOPTLIST `"""
    - local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions"""



---


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



---


> _____ end _optlist.dumpoption
> s _____
    = local RMDCOLLOPTLIST `"""
    - _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARKO
> PTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLlinear )
    = _parse expand EQ GL : 0, gweight common(      COLlinear )
    - if `EQ_n' == 0 & "`noneedvarlist'" == "" {
    = if 2 == 0 & "noneedvarlist" == "" {
        syntax varlist
    }
    - local rebind = `EQ_n' == 1
    = local rebind = 2 == 1
    - if `rebind' {
    = if 0 {
        tokenize `""`0""", parse(",(),[])"
        local rebind = `""`1""" != "(" & `""`2""" == "("
    }
    - if `rebind' {
    = if 0 {

```

```

        while `:length local 0' {
            gettoken tok 0 : 0, parse(",") bind match(par)
            if "`par'" == "(" {
                gettoken nxt : 0
                local nxt = substr(```nxt''',1,1)
                if inlist(```nxt''', "#", "|") {
                    local ZERO ```ZERO'(`tok')'''
                }
                else {
                    local ZERO ``(`ZERO')(`tok')`0''''
                }
            }
            else if inlist(``tok'", "if", "in", ",") {
                local ZERO ``(`ZERO')(`tok')`0''''
            }
            else if inlist(substr(```tok''',1,1), "#", "|") {
                local ZERO ```ZERO'`tok'''
            }
            else {
                local ZERO ```ZERO'`tok'''
            }
        }
        _parse expand EQ GL : ZERO, gweight common(`MARKOPTLIST` `SMA
> RKOPTLIST` `RMCOLLOPTLIST` `RMDCOLLOPTLIST` COLlinear )
    }
    - forval i = 1/`EQ_n' {
    = forval i = 1/2 {
    - if `i' <= `n_depvars.arrnels' {
    = if 1 <= 1 {
    - local ndep = `n_depvars[`i']'
    = local ndep = 0
    - }
    - .eq_list[`i'] = .eqspec.new, numdepvars(`ndep') `needequal'
> `noneedvarlist' wtypes(`wtypes') `nocons_ignore'
    = .eq_list[1] = .eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()
    -class {
    -instance:
    -      double n_depvars
    -      double needequal
    -      double needvarlist
    -      string wtypes
    -      string name
    -      string depvars

```

```

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



---


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



---


> _____ end _eqspec.ne
> w _____
- .eq_list['i'].parse `eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[1].parse __key(600013868200):y_timing_max: y_timing_m
> ax=wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open



---


> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(600013868200):y_timing_max: y_timing_m
> ax=wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open

```

---

```

> _____ begin _on_colon_pars
> e _____
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par) quot
> es
    - if ``par'' != "" {
    = if "" != "" {
        local before `"(`before')``"
    }
    - if ```before'' == ":" {
    = if `"_key(600013868200)"' == ":" {
        sreturn local after `"`after``"
        exit
    }
    - while ```COLON''' != ":" & ```after''' != "" {
    = while `""' != ":" & `":y_timing_max: y_timing_max=wlth wg_
> ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open'' != "" {
    - 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=wlth wg_
> ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open'' != "" {
    - 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(600013868200)"
- sreturn local after ```after'''
= sreturn local after `y_timing_max: y_timing_max=wlth wg_n
> dx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo open"


---


> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013868200)
    - 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 OPTNAMES `"\`ol'.dumpnames''' _____
> _____ begin _optlist.dumpname
> s _____
> - version 9
> - forval i = 1/\`names.arrnels' {
> = forval i = 1/4 {
> - local namelist `namelist' \`names[`i']
> = local namelist noconstant
> - }
> - local namelist `namelist' \`names[`i']
> = local namelist noconstant freparm
> - }
> - local namelist `namelist' \`names[`i']
> = local namelist noconstant freparm offset
> - }
> - local namelist `namelist' \`names[`i']
> = local namelist noconstant freparm offset exposure
> - }
> - local namelist : list uniq namelist
> - sreturn local namelist `"\`namelist''''
> = sreturn local namelist `"noconstant freparm offset exposu
> re'' - class exit `"\`namelist''''
> = class exit `"noconstant freparm offset exposure''' _____
> _____ end _optlist.dumpname
> s _____
> = local OPTNAMES `"noconstant freparm offset exposure''''
> - local NOCONS constant noconstant
> - if `"\`list NOCONS & OPTNAMES''' == "" {
> = if `"\`noconstant''' == "" {
> local NOCONS noCONSTANT
> }
> - else local NOCONS
> }
> - local 0 `"\`s(after)''''
> = local 0 `"\`y_timing_max: y_timing_max=wlth wg_ndx_mult stky_p
> r_rotemberg wg_ndx stky_pr_calvo open'' - if `"\`wtypes''' != "" {
> = if `""' != "" {
> local wgt "[\`wtypes']"

```

```

        }
      - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NOC
> 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 7 {
        - 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 `"<`=wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calv
> o open" == "" {
            if 0`needequal' {
                if `needvarlist' | (:length local DEPVARS' != 0 & `.n_depvs'
> ars') {
                    di as err "equal sign required to separate depvars from inde
> pvars"
                    exit 198
                }
            }
            local DEPVARS
            local n_deps : list sizeof anything
            if `n_deps' != 0 | `needvarlist' {
                if `n_deps' < `.n_depvars' {
                    error 102
                }
                forval j = 1/`.n_depvars' {
                    gettoken YY anything : anything
                    local DEPVARS `DEPVARS' `YY'
                }
                local INDEPVARS : list retok anything
            }

```

```

    loca hasequal 0
}
- else {
- gettoken EQ INDEPVARS : REST, parse("=") bind
- local hasequal 1
-
- if `:list sizeof DEPVARS' {
= if 1 {
- _fv_check_depvar `DEPVARS'
= _fv_check_depvar y_timing_max
- tsunab DEPVARS : `DEPVARS'
= tsunab DEPVARS : y_timing_max

```

---

```

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

```

---

```

> _____ end tsuna
> b _____
    -
    - if `:list sizeof INDEPVARS' {
= if 6 {
    - ffunab INDEPVARS : `INDEPVARS'
= ffunab INDEPVARS : wlth wg_ndx_mult stky_pr_rotemberg wg_ndx
> stky_pr_calvo open

```

---

```

> _____ begin fvuna
> b _____
    - version 11
    - _on_colon_parse `0'
= _on_colon_parse INDEPVARS : wlth wg_ndx_mult stky_pr_rotem
> berg wg_ndx stky_pr_calvo open

```

---

```

> _____ begin _on_colon_pars

```

```

> e -----
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettokn before after : 0, parse(":") bind match(par) qu
> otes
    - if ``par'' != "" {
    = if "" != "" {
        local before `"(`before')"`
    }
    - if ```before'' == ":" {
    = if `INDEPVARS '' == ":" {
        sreturn local after `"`after`"
        exit
    }
    - while ``COLON'' != ":" & ```after'' != "" {
    = while `"" != ":" & `":` wlth wg_ndx_mult stky_pr_rotemb
> rg wg_ndx stky_pr_calvo open"! != "" {
    - 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 `";" != ":" & `":` wlth wg_ndx_mult stky_pr_rotemb
> rg wg_ndx stky_pr_calvo open"! != "" {
    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 `""INDEPVARS """
- sreturn local after `""`after"""
= sreturn local after `"" wlth wg_ndx_mult stky_pr_rotember
> g wg_ndx stky_pr_calvo open"


---


> _____ end _on_colon_pars
> e _____
    - local 0 `""`s(before)"""
    = local 0 `""INDEPVARS """
    - syntax name(id="macro name" name=user)
    - local 0 `""`s(after)"""
    = local 0 `"" wlth wg_ndx_mult stky_pr_rotember wg_ndx stky_
> pr_calvo open"
    - syntax [varlist(ts fv default=none)] [, MIN(integer 1) MAX
> (integer 32000) NAME(string) ]
    - c_local `user' `varlist'
    = c_local INDEPVARS wlth wg_ndx_mult stky_pr_rotember wg_nd
> x stky_pr_calvo open
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
    = if (1 <= 6 & 6 <= 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 ``$offset''
local EXPOSURE = ("`exposure'" != "")
local OTHER `s(offset)'
}
- else local EXPOSURE 0
- local FREEPARM = ```freeparm'" != ""
= local FREEPARM = ``'"' != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if ````OPTNAME'''' != "" {
= if ``''' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ````OPTNAME'''' != "" {
= if ``''' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ````OPTNAME'''' != "" {
= if ``''' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ````OPTNAME'''' != "" {
= if ``''' != "" {
    local OPTIONS ```OPTIONS``SPACE``OPTNAME'''''
    local SPACE " "
}
- }
- if ```options''' != "" {
= if ``''' != "" {
    local OPTIONS ```OPTIONS``SPACE``options'''''
}
- .name = ```NAME'''''
= .name = ``y_timing_max'''
- .depvars = ```DEPVARS'''''
= .depvars = ``y_timing_max'''
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ```:list retok INDEPVARS'''
= .indepvars = ``wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stk

```

```

> y_pr_calvo open"""
    - .other_markvars = `":list retok OTHER"`
    = .other_markvars = `""`
    - .nocons = `NOCONS`
    = .nocons = 0
    - .if = `HOLDIF`
    = .if = `""`
    - .in = `HOLDIN`
    = .in = `""`
    - .wgt = `HOLDWGT`
    = .wgt = `""`
    - .offset = `OFFSET`
    = .offset = `""`
    - .exposure = `EXPOSURE`
    = .exposure = 0
    - .freeparm = `FREEPARM`
    = .freeparm = 0
    - .options = `OPTIONS`
    = .options = `""`



---


> _____ end _eqspec.pars
> e _____
    - }
    - if `i' <= `.n_depvars.arrnels' {
    = if 2 <= 1 {
        local ndep = `.n_depvars[`i']'
    }
    - .eq_list[`i'] = ._eqspec.new, numdepvars(`ndep') `needequal'
> `noneedvarlist' wtypes(`wtypes') `nocons_ignore'
    = .eq_list[2] = ._eqspec.new, numdepvars(0) needequal noneedvarl
> ist wtypes()



---


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

```

= .needvarlist = ("noneedvarlist" == "")
- .nocons_ignore = ("`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(600013868200):"lnalpha":, freparm

> _____ begin _eqspec.pars
> e _____
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(600013868200):"lnalpha":, freparm

> _____ begin _onColon_pars
> e _____
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quot
> es
- if "`par'" != "" {
= if "" != "" {
    local before `"(before)"'
}
- if `"(before)"' == ":" {
= if `"_key(600013868200)"' == ":" {
    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(600013868200)`"
    - sreturn local after `"\`after`"
    = sreturn local after `"\`lnalpha":, freparm`"

```

---

```

> _____ end _on_colon_pars
> e _____
    - local ol `s(before)'
    = local ol __key(600013868200)
    - if `:list sizeof ol' {
    = if 1 {
        - local OPTLIST `"\`ol'.dumpoptions`"

```

---

```

> _____ begin _optlist.dumpoption
> s _____
    - version 9
    - forval i = 1/`.options.arrnels' {
    = forval i = 1/4 {
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant
    - }
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant FREEParm
    - }
    - local optlist `optlist' `.`options[`i']'
    = local optlist NOCONSTant FREEParm OFFset(passthru)

```

```

        - }
        - local optlist `optlist' `options[`i']'
        = local optlist NOCONStant FREEParm OFFset(passthru) EXPosur
> e(passthru)
        - }
        - local optlist : list uniq optlist
        - sreturn local optlist `""`optlist"""
        = sreturn local optlist `""NOCONStant FREEParm OFFset(passthru) EXPosur
> u) EXPosure(passthru)"
        - class exit `""`optlist"""
        = class exit `""NOCONStant FREEParm OFFset(passthru) EXPosure
> (passthru)"



---


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



---


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



---


> _____ end _optlist.dumpname
> s _____
        = local OPTNAMES `""noconstant freparm offset exposure"""

```

```

- local NOCONS constant noconstant
- if `":list NOCONS & OPTNAMES` == "" {
= if `"noconstant"` == "" {
    local NOCONS noCONSTant
}
- else local NOCONS
}
- local 0 `":s(after)`"
= local 0 `":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 = `""`freeparm`"""



---


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



---


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



---


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



---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`names.arrnels' {

```

```

        = forval i = 1/0 {
            local namelist `namelist' `.`names[`i']'
        }
        - local namelist : list uniq namelist
        - sreturn local namelist `""`namelist"""
        = sreturn local namelist `"""
        - class exit `""`namelist"""
        = class exit `"""



---


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



---


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



---


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



---


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

```

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

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

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

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

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


```

```

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

----- end _optlist.dumpoption
> s -----
    = local RMDCOLLOPTLIST `"""
    - local RMDCOLLOPTNAMES `""`rmcoll_opts.dumpnames"""

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

----- end _optlist.dumpname
> s -----
    = local RMDCOLLOPTNAMES `"""
    - local OPTLIST3 : subinstr local RMDCOLLOPTLIST "(passthru)" "(
> string asis)", all
        - local 0 `", `GL_op"""
        = local 0 `", """
        - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLline
> ar noCONSTant *
        = syntax [,      COLlinear noCONSTant * ]
        - local GL_op `""`options"""
        = local GL_op `"""
        - if `""`collinear"" != "" {
        = if `""` != "" {
            local GL_op `""`GL_op` `collinear"""

```

```

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

```

- .gl_wgt = `"\`GL_wt`"""
= .gl_wgt = `"""
- .gl_options = `"\`list retok GL_op`"""
= .gl_options = `"""

> _____ end _eqlist.pars
> e _____
- if "`subpop'" != "" & "`missing'" == "" {
= if "" != "" & "missing" == "" {
    if `interactive' {
        SetGlobalVar ML_samp : _MLtu
    }
    else {
        global ML_samp : tempvar
        if `"\`moptobj`"" != "" {
            global ML_samp `moptobj'$ML_samp
        }
    }
    tempvar markuse
    _svy_setup $ML_sample $ML_samp, svy subpop(`subpop')
    quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000006
- if "`collinear'" == "" {
= if "collinear" == "" {
    .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if "`missing'" == "" {
= else if "missing" == "" {
    .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000006" != "__000006" {
    `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
    drop `markuse'
}
- local eq_n = `.`eqlist'.eq count'

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

```

```

        = sreturn local value `"2"'
        - class exit `"`s(value)`"'
        = class exit `"2"'



---


> _____ end _eqlist.e
> q _____
    = local eq_n = 2
    - global ML_n : copy local eq_n
    - global ML_dim = `.`eqlist'.dim'



---


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



---


> _____ begin _eqlist.e
> q _____
    - version 9.2
    - args item idx
    - if "`item'" == "count" {
    = if "count" == "count" {
        - sreturn local value `"`n_eq`"'
        = sreturn local value `"2"'
        - class exit `"`s(value)`"'
        = class exit `"2"'



---


> _____ end _eqlist.e
> q _____
    = local neq = 2
    - forval i = 1/`neq' {
    = forval i = 1/2 {
        - local 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 `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx st
> ky_pr_calvo open"""
    - sreturn local value `""`value"""
    = sreturn local value `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx st
> g_ndx stky_pr_calvo open"""
    - class exit `""`value"""
    = class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_
> y_pr_calvo open"""


---


> _____ end _eqspec.ite
> m
    - class exit `""`s(value)`"""
    = class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_
> pr_calvo open"""

```

---

```

> _____ end _eqlist.e
> q _____
= local xvars1 `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_
> pr_calvo open"
- local noconsi ``.eq nocons `i'''

```

---

```

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

```

---

```

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

```

---

```

> _____ begin _eqspec._check_eq_item_nam
> e _____
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt'
> `other' `nocons' `offset' `exposure' `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 = + 6
- 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 = 7 + 0
    - if "`noconsi'" == "0" {
    = if "0" == "0" {
    - local ++dim
    - }
    - }
    - sreturn local value `"\`dim"`
    = sreturn local value `"\8"`
    - class exit `"\`s(value)"`
    = class exit `"\8"`

> _____ end _eqlist.di
> m _____
    = global ML_dim = 8
    - forval i = 1/\`eq_n' {
    = forval i = 1/2 {
    - 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' `deptr' `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 `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky
> _pr_calvo open"""
- sreturn local value `""` `value`"""
= sreturn local value `wlth wg_ndx_mult stky_pr_rotemberg wg_
> ndx stky_pr_calvo open"""
- class exit `""` `value`"""
= class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_
> pr_calvo open"""
> _____ end _eqspec.ite
> m _____
- class exit `""` `s(value)`"""
= class exit `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr
> _calvo open"""
> _____ end _eqlist.e
> q _____
= fvexpand wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_pr_calvo
> open if __000006
- if `r(tsops)` == "true" {
= if "" == "true" {
    global ML_preserve no
}
- local eq_rhs`i' `""` `r(varlist)`"""
= local eq_rhs1 `wlth wg_ndx_mult stky_pr_rotemberg wg_ndx stky_p
> r_calvo open"""
- local eq_nocons`i' `.` `eqlist'.eq nocons `i'

```

```

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

```

```

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

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

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

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

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

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

```

```

> ther' `nocons' `offset' `exposure' `freeparm' `options'
  = local item          offset
  - if `:list sizeof item' != 1 {
  = if 1 != 1 {
    error 198
  }
  - c_local `c_item' `item'
  = c_local item offset


---


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


---


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


---


> _____ end _eqlist.e
> q _____
  = local eq_offset1
  - local eq_exposure`i' `.`eqlist'.eq exposure `i''


---


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


---


> _____ begin _eqspec.ite
> m _____
  - version 9.2
  - args item

```

```

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


---


> _____ end _eqspec._check_eq_item_nam
> e _____
- local value `".`item"```
= local value `"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 = 1/6 {
        - gettoken xvar TMP : TMP
        - local colna `"$`colna`$` `eq`:`xvar`$"
        = local colna `"$`y_timing_max:wlth`$"
        - }
        - gettoken xvar TMP : TMP
        - local colna `"$`colna`$` `eq`:`xvar`$"
        = local colna `"$`y_timing_max:wlth`$` `y_timing_max:wg_ndx_mult`$"
        - }
        - gettoken xvar TMP : TMP
        - local colna `"$`colna`$` `eq`:`xvar`$"
        = local colna `"$`y_timing_max:wlth`$` `y_timing_max:wg_ndx_mult`$` `y_timi
> ng_max:stky_pr_rotemberg"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"$`colna`$` `eq`:`xvar`$"
    = local colna `"$`y_timing_max:wlth`$` `y_timing_max:wg_ndx_mult`$` `y_timi
> ng_max:stky_pr_rotemberg y_timing_max:wg_ndx"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"$`colna`$` `eq`:`xvar`$"
    = local colna `"$`y_timing_max:wlth`$` `y_timing_max:wg_ndx_mult`$` `y_timi
> ng_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo"
    - }
    - gettoken xvar TMP : TMP
    - local colna `"$`colna`$` `eq`:`xvar`$"
    = local colna `"$`y_timing_max:wlth`$` `y_timing_max:wg_ndx_mult`$` `y_timi
> ng_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo y_t
> ming_max:open"

```

```

- }
- if `eq_freeparm`i'' {
= if 0 {
    if `nxvars' {
        di as err "{it:xvars} not allowed with option {bf:freeparm}"
        exit 198
    }
    if strpos(```eq''', ":") {
        local colna ```colna' `/`eq'''
    }
    else {
        local colna ```colna' /:`eq''''
    }
}
- else if !`eq_nocons`i'' {
= else if !0 {
- local colna ```colna' `eq':_cons''
= local colna `` y_timing_max:wlth y_timing_max:wg_ndx_mult y_timi
> ng_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo y_t
> ming_max:open y_timing_max:_cons''
- }
- if ``moptobj'' != "" {
= if "" != "" {
    if ``eq_offset`i'' != "" {
        if usubstr(``eq_offset`i'', 1, 2) == "__" {
            capture clonevar `moptobj` `eq_offset`i' = `eq_offset`i'
            local dropmetoo `dropmetoo' `moptobj` `eq_offset`i'
        }
    }
}
- }
- local depvars `.``eqlist'.eq depvars `i''

```

---

```

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

```

---

```

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


---


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


---


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


---


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


---


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

---

---

```

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

```

---

```

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

```

---

```

> _____ begin _eqspec._check_eq_item_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 `""` lalpha"""

```

```

    - 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 _____
    = fexpand if __000006
    - if "`r(tsops)" == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' `""`r(varlist)`"""
    = local eq_rhs2 `"""
    - local eq_nocons`i' `""`eqlist'.eq nocons `i'
```

---

```

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

```

```

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

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

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

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

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

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

```

```

> ther' `nocons' `offset' `exposure' `freeparm' `options'
  = local item          offset
  - if `:list sizeof item' != 1 {
  = if 1 != 1 {
    error 198
    }
  - c_local `c_item' `item'
  = c_local item offset
  _____
> _____ end _eqspec._check_eq_item_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

```

```

> _____ 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 `"(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 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 freeparm
- if `:list sizeof item' != 1 {
= if 1 != 1 {
    error 198
}
- c_local `c_item' `item'
= c_local item freeparm


---


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

```

---

```

> _____ end _eqspec.ite
> m _____
    - class exit `"$`s(value)`$"
    = class exit `"$1$"
_____
> _____ end _eqlist.e
> q _____
    = local eq_freeparm2 1
    - local lhs `lhs` `depvars'
    = local lhs y_timing_max
    - local eq_names `eq_names` `eq'
    = local eq_names y_timing_max lnalpha
    - local nxvars :list sizeof eq_rhs`i'
    = local nxvars :list sizeof eq_rhs2
    - local TMP : copy local eq_rhs`i'
    = local TMP : copy local eq_rhs2
    - forval j = 1/`nxvars' {
    = forval j = 1/0 {
        gettoken xvar TMP : TMP
        local colna `"$`colna`$`eq`$`xvar`$"
        }
    - if `eq_freeparm`i' {
    = if 1 {
    - if `nxvars' {
    = if 0 {
        di as err "{it:xvars} not allowed with option {bf:freeparm}"
        exit 198
        }
    - if strpos(`"$`eq`$", ":" ) {
    = if strpos(`"$lnalpha`$", ":" ) {
        local colna `"$`colna`$`eq`$"
        }
    - else {
        local colna `"$`colna`$`eq`$"
        = local colna `"$`y_timing_max:wlth`$`y_timing_max:wg_ndx_mult`$`y_timi
> ng_max:stky_pr_rotemberg`$`y_timing_max:wg_ndx`$`y_timing_max:stky_pr_calvo`$`y_ti
> ming_max:open`$`y_timing_max:_cons`$`:/`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 -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(1,8,0)
- matrix colna `b0' = `colna'
= matrix colna __00000B = y_timing_max:wlth y_timing_max:wg_ndx_m
> ult y_timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_
> calvo y_timing_max:open y_timing_max:_cons /:lnalpha
    - `vv' _mkvec `b0', from(`init') update first error("initial vecto
> r")
        = version 18: _mkvec __00000B, from(__000002) update first error("_
> initial vector")


---


> _____ begin _mkve
> c _____
    - local vv : display "version " string(_caller()) ":""
    - version 6
    - gettoken matout 0 : 0, parse(", ")
    - if "`matout'"=="" | "`matout'"=="," {
= if "__00000B"=="" | "__00000B"=="," {
    error 198
}
    - syntax [, FROM(str) UPdate COLnames(str) ERRor(str) FIRST ]
    - if "`update'"!=""
= if "update"!=""
    - if "`colname'"!=""
= if ""!=""
        di in red "update and colnames() cannot both be " "specified"
        exit 198
    }
    - capture local colname : colfullnames `matout'
= capture local colname : colfullnames __00000B
    - if _rc {
        di in red "matrix `matout' not found"
        exit 111
    }
    - if rowsof(matrix(`matout')) != 1 {
= if rowsof(matrix(__00000B)) != 1 {
        di in red "`matout' matrix to be updated must be " "a row vect
> or"
        exit 503

```

```

        }
- local matin `matout'
= local matin __00000B
- }
- if `"`error'"'!="" {
= if `"`initial vector'"'!="" {
- local error `"`error': ""
= local error `"`initial vector: ""
- }
- tempname mat
- if `"`from'"'!="" {
= if `"_000002'"'!="" {
- From `from'
= From __000002


---


> _____ begin _mkvec.Fro
> m _____
    - gettokn 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:wlt' y_timing_max:wg_ndx_mult y_timing_max:s
> tky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo y_timing_max
> :open y_timing_max:_cons /lnalpha''!=``' {
      - `vv' ChkNames `mat' ``matin'' ``colname'' ``error'' ``skip
> '' ``first''
      = version 18: ChkNames __00000C __00000B ``y_timing_max:wlt' y
> _timing_max:wg_ndx_mult y_timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y
> _timing_max:stky_pr_calvo y_timing_max:open 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(__0000C))
    - if "`first`"!=""
    = if "first"!=""
    - gettoken name : names
    - local eq1 = bsubstr(`name'',1,index(`name'',""))
    = local eq1 = bsubstr(`y_timing_max:wlth'',1,index(`y_timing
> _max:wlth'',""))
    - }
    - tempname new fill x
    - local k : list sizeof names
    - if "`matin`"!=""
    = if "__0000B"!=""
    - mat `new' = `matin'
    = mat __0000D = __0000B
    - }
    - else {
        mat `new' = J(1,`k',0)
        `vv' mat colnames `new' = `names'
    }
    - mat `fill' = J(1,`k',0)
    = mat __0000E = J(1,8,0)
    - local i 1
    - while `i' <= `dim' {
    = while 1 <= 8 {
        mat `x' = `mat'[1,`i'..`i']
        = mat __0000F = __0000C[1,1..1]
        - 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: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(stripe)`""
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new','`spec``')
= version 18: local j = colnumb(__00000D,"y_timing_max:wlth"
> )
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec``')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/y_timing_max:wlth" != "" {
    `vv' local j = colnumb(`new','`sspec``')
}
- if `j'==. & ``eq``== "_" & ``eq1``!= "" {
= if 1==. & ``y_timing_max``== "_" & ``y_timing_max``!= "" {
    `vv' local j = colnumb(`new','`eq1``name``')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1``oname``')
    }
}
- if `j'!=. {
= if 1!=. {
- if `fill'[1,`j'] {
= if __00000E[1,1] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ``eq``== "_" {
            di in red ``error'duplicate `` `entries for `name' found``
        }
        else di in red ``error`` ``duplicate entries for `eq':`nam
> e' found``
    exit 507
}

```

```

    else if !missing(`new'[1,`j']) {
      matrix `mat'[1,`i'] = `new'[1,`j']
    }
  }
  - else mat `fill'[1,`j'] = 1
  = else mat __00000E[1,1] = 1
  - mat `new'[1,`j'] = `mat'[1,`i']
  = mat __00000D[1,1] = __00000C[1,1]
  - }
  - else if "`skip'"=="" {
  = else if ""=="" {
    if "`eq'"=="_"
      local spec : copy local name
    }
    di in red `""`error'extra parameter ""`spec' found"" _n "s
> pecify skip option if necessary"
    exit 111
  }
  - local i = `i' + 1
  = local i = 1 + 1
  - }
  - while `i' <= `dim' {
  = while 2 <= 8 {
  - 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:wg_ndx_mult"
  - if (usubstr("`eq'",1,1) != "/") {
  = if (usubstr("y_timing_max",1,1) != "/") {
  - local sspec "/`eq':`name'"
  = local sspec "/y_timing_max:wg_ndx_mult"
  - }
  - }
  - local oname
  - local ospec
  - capture _msparse `name', noomit
  = capture _msparse wg_ndx_mult, noomit

```

```

- if c(rc) == 0 {
- if r(omit) {
  local oname `r(stripes)`
  local ospec "`eq':`oname"
}
-
`vv' local j = colnumb(`new',``spec')
= version 18: local j = colnumb(_00000D,"y_timing_max:wg_ndx
> _mult")
-
- if `j' == . & ``oname'' != "" {
= if 2 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec')
}
-
- if `j' == . & ``sspec'' != "" {
= if 2 == . & "/y_timing_max:wg_ndx_mult" != "" {
  `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 <= 8 {
- 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':`oname'"
}
- }
- `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 __0000E[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 __0000E[1,3] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,3] = __0000C[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 <= 8 {
- 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: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 4 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & "`sspec'" != "" {
= if 4 == . & "/y_timing_max:wg_ndx" != "" {
    `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 <= 8 {
- 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(stripe)''
  local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new','`spec')
= version 18: local j = colnumb(__0000D,"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 __00000E[1,5] {
  _ms_parse_parts `name'
  if !r(omit) {
    if "`eq'"=="_" {
      di in red `""`error'duplicate "' `entries for `name' found'''
    }
    else di in red `""`error''' `duplicate entries for `eq':`nam
> e' found'''
    exit 507
  }
  else if !missing(`new'[1,`j']) {
    matrix `mat'[1,`i'] = `new'[1,`j']
  }
}
- else mat `fill'[1,`j'] = 1
= else mat __00000E[1,5] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,5] = __00000C[1,5]
- }
- else if "`skip'"=="" {
= else if ""=="" {
  if "`eq'"=="_" {
    local spec : copy local name
  }
  di in red `""`error'extra parameter "' `""`spec' found'' _n "s
> pecify skip option if necessary"
    exit 111
  }
- local i = `i' + 1
= local i = 5 + 1
- }
- while `i' <= `dim' {
= while 6 <= 8 {
  - mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,6..6]
  - local eq : coleq `x'
= local eq : coleq __00000F
  - local name : colname `x'
= local name : colname __00000F
  - if "`eq'" == "/" {
= if "y_timing_max" == "/" {
    local spec "/`name'"
  }
- else {
  - local spec "`eq':`name'"
= local spec "y_timing_max: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(stripes)`"'"'
    local ospec `/`eq':`oname``
    }
- }
- `vv' local j = colnumb(`new','`spec'')
= version 18: local j = colnumb(__00000D,"y_timing_max:open"
> )
- if `j' == . & "`oname'" != "" {
= if 6 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 6 == . & "/y_timing_max:open" != "" {
    `vv' local j = colnumb(`new','`sspec'')
}
- if `j'==. & ```eq''==_"_ & ```eq1''!="" {
= if 6==. & `y_timing_max''==_"_ & `y_timing_max:''!="" {
    `vv' local j = colnumb(`new','`eq1``name'')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new','`eq1``oname'')
    }
}
- if `j'!=. {
= if 6!=. {
- if `fill'[1,`j'] {
= if __00000E[1,6] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ```eq''==_"_ {
            di in red ```error'duplicate '' ``entries for `name' found''
        }
        else di in red ```error'' ``duplicate entries for `eq':`nam
> e' found"
exit 507

```

```

}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
-
else mat `fill'[1,`j'] = 1
= else mat __00000E[1,6] = 1
-
mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,6] = __00000C[1,6]
-
-
else if "`skip'"==""
= else if ""==""
if "`eq'"=="_"
local spec : copy local name
di in red `""`error'extra parameter "' `""`spec' found"' _n "s
> pecify skip option if necessary"
exit 111
}
-
local i = `i' + 1
= local i = 6 + 1
-
-
while `i' <= `dim'
= while 7 <= 8 {
-
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:_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(strip)`"""
    local ospec "`eq':`oname"""
    }
- }
- `vv' local j = colnumb(`new','`spec""")
= version 18: local j = colnumb(__0000D,"y_timing_max:_cons"
> ')
- if `j' == . & "`oname'" != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new','`ospec""")
    }
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/y_timing_max:_cons" != "" {
    `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 __0000D[1,7] = __0000C[1,7]

```

```

    - }
    - else if ``skip'']==" {
    = else if ""==" {
        if ``eq'']=="_ {
            local spec : copy local name
        }
        di in red `error'extra parameter ```spec' found' _n "s
> pecify skip option if necessary"
        exit 111
    }
    - local i = `i' + 1
    = local i = 7 + 1
    - }
    - while `i' <= `dim' {
    = while 8 <= 8 {
        - 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 "/" == "/" {
        - 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(strip)'"
            local ospec ``eq':`oname''
        }
        - }
        - `vv' local j = colnumb(`new','`spec'')
        = version 18: local j = colnumb(__00000D,"/lnalpha")
        - if `j' == . & ``oname' != "" {
        = if 8 == . & "" != "" {

```

```

`vv' local j = colnumb(`new','`ospec')
}
- if `j' == . & ``sspec'' != "" {
= if 8 == . & "/y_timing_max:_cons" != "" {
`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 __0000E[1,8] {
_ms_parse_parts `name'
if !r(omit) {
if ``eq'''=="_"
di in red ``error'duplicate "' ``entries for `name' found'"
}
else di in red ``error''' ``duplicate entries for `eq':`nam
> e' found"
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __0000E[1,8] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __0000D[1,8] = __0000C[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 <= 8 {
        mat `x' = `mat'[1,`i'..`i']
        local eq : coleq `x'
        local name : colname `x'
        if "`eq'" == "/" {
            local spec "/`name'"
        }
        else {
            local spec "`eq':`name'"
            if (usubstr("`eq'",1,1) != "/") {
                local sspec "/`eq':`name'"
            }
        }
        local oname
        local ospec
        capture _msparse `name', noomit
        if c(rc) == 0 {
            if r(omit) {
                local oname ``r(stripe)''
                local ospec "`eq':`oname'"
            }
        }
        `vv' local j = colnumb(`new','`spec)')
        if `j' == . & "`oname'" != "" {
            `vv' local j = colnumb(`new','`ospec)')
        }
        if `j' == . & "`sspec'" != "" {
            `vv' local j = colnumb(`new','`sspec)')
        }
        if `j'==. & ```eq''''=="_" & ```eq1''''!="" {
            `vv' local j = colnumb(`new','`eq1``name)')
        if `j' == . & "`oname'" != "" {
            `vv' local j = colnumb(`new','`eq1``oname)')
        }
        }
        if `j'!=. {
            if `fill'[1,`j'] {
                _ms_parse_parts `name'
                if !r(omit) {
                    if "`eq'"=="_"
                        di in red ``error'duplicate '' ``entries for `name' found''
                }
            }
            else di in red ``error'' ``duplicate entries for `eq':`nam
> e' found''

```

```

        exit 507
    }
    else if !missing(`new'[1,`j']) {
        matrix `mat'[1,`i'] = `new'[1,`j']
    }
}
else mat `fill'[1,`j'] = 1
mat `new'[1,`j'] = `mat'[1,`i']
}
else if "`skip'"=="" {
if "`eq'"=="_" {
local spec : copy local name
}
di in red `"`error'extra parameter "'`spec' found'" _n "s
> pecify skip option if necessary"
    exit 111
}
local i = `i' + 1
}
- mat `fill' = `fill'*`fill'
= mat __0000E = __0000E*__0000E'
- sret clear
- sret local k_fill = `fill'[1,1]
= sret local k_fill = __0000E[1,1]
- mat `mat' = `new'
= mat __0000C = __0000D


---


> _____ end _mkvec.ChkName
> s _____
- local fill `s(k_fill)'
= local fill 8
-
-
-
- else {
    local fill 0
    if "`update'"!=""
        mat `mat' = `matin'
    }
    else if `"`colname'"'!="" {
        local dim : list sizeof colname
        mat `mat' = J(1,`dim',0)
        `vv' mat colnames `mat' = `colname'
    }
    else {
        di in red "from() must be specified"
    }
}

```

```

        exit 198
    }
}
-sret clear
-sret local copy `copy'
=sret local copy
-sret local skip `skip'
=sret local skip
-sret local k = colsof(matrix(`mat'))
=sret local k = colsof(matrix(_00000C))
-if "`fill'"!=""
=if "8"!=""
-sret local k_fill `fill'
=sret local k_fill 8
-
-else sret local k_fill = colsof(matrix(`mat'))
=else sret local k_fill = colsof(matrix(_00000C))
-matrix rename `mat' `matout', replace
=matrix rename _00000C _00000B, replace


---


> _____ end _mkve
> c _____
-
-}
-tempname bomit
-matrix `bomit' = J(1,:list sizeof colna',0)
=matrix _00000C = J(1,8,0)
-matrix colna `bomit' = `colna'
=matrix colna _00000C = y_timing_max:wlth y_timing_max:wg_ndx_m
> ult y_timing_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_
> calvo y_timing_max:open y_timing_max:_cons /:lnalpha
- _ms OMIT_info `bomit'
=_ms OMIT_info _00000C
-if r(k OMIT) | `:length local constraints' {
=if r(k OMIT) | 0 {
nobreak {
capture noisily break {
_b_post0 `colna'
local clist : subinstr local constraints "," " ", all
`vv' makecns `clist', `cnsnotes'
local constraints `""`r(clist)`"""
local k_autoCns = e(k_autoCns)
tempname C
capture matrix `C' = e(Cns)
local rcc = c(rc)
}
local rc = c(rc)

```

```

ereturn clear
}
if (`rc') exit `rc'
if (`rcc') {
local C
local k_autoCns
}
}
- if `:length local constraints' {
= if 0 {
local lf0
}
- local vce `vce' `robust' `cluster'
= local vce vce(robust) robust
- if `:length local vce' {
= if 18 {
- _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old : `w
> t', `vce'
= _vce_parse, argoptlist(CLuster) optlist(OIM OPG Robust) old : ,
> vce(robust) robust


---


> _____ begin _vce_pars
> e _____
    - version 10
    - _onColonParse `0'
    = _onColonParse , argoptlist(CLuster) optlist(OIM OPG Robust)
> old : , vce(robust) robust


---


> _____ 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 `", argoptlist(CLuster) optlist(OIM OPG Robust) old "' ==
> ":" {
        sreturn local after `""`after"""
        exit
    }
    - while `""`COLON""' != ":" & `""`after""' != "" {
    = while `""' != ":" & `": , vce(robust) robust"' != "" {

```

```

    - gettok 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) PWallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
    - local touse `varlist'

```

```

= local touse
- tempname o a
- .`o' = ._optlist.new
= ._00000D = ._optlist.new
- local optlist : list uniq optlist
- foreach name of local optlist {
- .`o'.adopt `name'
= ._00000D.adopt OIM


---


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


---


> _____ end _optlist.addop
> t _____
    - }
    - .`o'.adopt `name'
= ._00000D.adopt OPG


---


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


---


> _____ end _optlist.addop

```

```

> t -----
    - }
    - .`o'.addopt `name'
= .__00000D.addopt Robust
-----

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

> ----- end _optlist.addop
> t -----
    - }
    - .`a' = ._optlist.new
= .__00000E = ._optlist.new
    - local argoptlist : list uniq argoptlist
    - foreach name of local argoptlist {
    - .`a'.addopt `name'
= .__00000E.addopt CLuster
-----

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

> ----- end _optlist.addop

```

```

> t _____
    - }
    - local OPTNAMES `""`.'o'.dumpnames"""
_____
> _____ begin _optlist.dumpname
> s _____
    - version 9
    - forval i = 1/`.names.arrnels' {
    = forval i = 1/3 {
    - local namelist `namelist' `.`names[`i']'
    = local namelist oim
    - }
    - local namelist `namelist' `.`names[`i']'
    = local namelist oim opg
    - }
    - local namelist `namelist' `.`names[`i']'
    = local namelist oim opg robust
    - }
    - local namelist : list uniq namelist
    - sreturn local namelist `""`namelist"""
    = sreturn local namelist `"oim opg robust"'
    - class exit `""`namelist"""
    = class exit `"oim opg robust"'

_____
> _____ end _optlist.dumpname
> s _____
    = local OPTNAMES `"oim opg robust"'
    - local ARGOPTNAMES `""`.'a'.dumpnames"""

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

_____
> _____ end _optlist.dumpname
> s _____
    = local ARGOPTNAMES `"cluster"'


```

```

- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
    di as err "vcetype ``:word 1 of `AND''' specified twice"
    exit 198
}
- local pwallowed : list uniq pwallowed
- local pwlist robust cluster
- foreach n of local pwallowed {
    local lc = lower("`n`")
    local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
- }
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
- }
- }
- local 0 `""user"""
= local 0 `", vce(robust) robust"""
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varnam
> e) ]
- if `""vce""' != "" {
= if `"robust"' != "" {
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE __00000D __00000E , robust

> _____ begin _vce_parse.ParseVC
> E _____
- gettoken O 0 : 0, parse(" ,")
- gettoken A 0 : 0, parse(" ,")
- local OPTSPECS `""`O'.dumpoptions' `.`A'.dumpoptions"""
> _____ begin _optlist.dumpoption
> s _____
- version 9

```

```

- forval i = 1/`options.arrnels' {
= forval i = 1/3 {
- local optlist `optlist' `options[`i']'
= local optlist OIM
- }
- local optlist `optlist' `options[`i']'
= local optlist OIM OPG
- }
- local optlist `optlist' `options[`i']'
= local optlist OIM OPG Robust
- }
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist"""
= sreturn local optlist `""OIM OPG Robust"""
- class exit `""`optlist"""
= class exit `""OIM OPG Robust"""



---


> _____ end _optlist.dumpoption
> s _____


---


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



---


> _____ end _optlist.dumpoption
> s _____
= local OPTSPECS `""OIM OPG Robust CLuster"""
- local OPTNAMES `""`0'.dumpnames' `.`A'.dumpnames"""



---


> _____ begin _optlist.dumpname
> s _____
- version 9
- forval i = 1/`names.arrnels' {
= forval i = 1/3 {
- local namelist `namelist' `names[`i']'
= local namelist oim

```

```

- }
- local namelist `namelist' `.`names[`i']'
= local namelist oim opg
- }
- local namelist `namelist' `.`names[`i']'
= local namelist oim opg robust
- }
- local namelist : list uniq namelist
- sreturn local namelist `""`namelist"""
= sreturn local namelist `""`oim opg robust"""
- class exit `""`namelist"""
= class exit `""`oim opg robust"""



---


> _____ end _optlist.dumpname
> s _____


---


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



---


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

```

```

        }
    - }
    - if `""`OPT'"" != "" {
    = if `"robust"'' != "" {
    - return local vce `OPT'
    = return local vce robust
    - continue, break
    }
}

```

---

```

> _____ end _vce_parse.ParseVC
> E _____
    - if c(rc) {
    di as err "vcetype {bf:`name'} not allowed"
    exit 198
    }
    - local name `r(vce)'
    = local name robust
    - if "`weight'" == "pweight" & !`:list name in pwlist' {
    = if "" == "pweight" & !1 {
    di as err "pweights are not allowed with vce(`name')"
    exit 198
    }
    - return add
    - if `""`robust'"" != "" & !inlist("`name'", "", "robust", "eim", "oi
> m", "cluster") {
    = if `"robust"'' != "" & !inlist("robust", "", "robust", "eim", "oim"
> , "cluster") {
        opts_exclusive "`robust' vce(`name')"
    }
    - if "`name'" == "cluster" {
    = if "robust" == "cluster" {
        if `"`args'"' == "" {
        di as err "invalid vce(cluster) option"
        exit 198
        }
        confirm var `args'
        unab args : `args'
        local markout `args'
        if `cluster'" != "" {
            if !`:list args == cluster' {
            di as err "options cluster() and vce(cluster) are in conflict"
            exit 100
            }
        }
    }
}

```

```

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

```

```

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

```

---

```

> _____ end _vce_pars
> e _____
- local vce `r(vce)'
= local vce robust
-
- else if "`weight'" == "pweight" {
= else if "" == "pweight" {
    local vce robust
}
- if `:length local svy' {
= if 0 {
    local vce svy
}
- if `"`vce'"' == "cluster" {
= if `"`robust'"' == "cluster" {
    local cluster `r(cluster)'
    markout $ML_sample `cluster', strok
}
- if `:length local group' {
= if 0 {
    markout $ML_sample `group', strok
    global ML_group : copy local group
    if bsubstr(`:type `group`',1,3) == "str" {
        if `interactive' {
            SetGlobalVar ML_grp : _MLgr
        }
    }
    else {
        global ML_grp : tempvar
        if `"`moptobj'"' != "" {
            global ML_grp `moptobj'$ML_grp

```

```

        }
    }
    quietly egen $ML_grp = group(`group')
    if ! `:length local cluster' {
        local cluster : copy global ML_grp
    }
}
else {
    if ! `:length local cluster' {
        local cluster : copy global ML_group
    }
}
}
}
- if "$ML_samp" != "$ML_sample" {
= if "__000006" != "__000006" {
    quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
- if `:length local vce' == 0 {
= if 6 == 0 {
    if ```technique''' == "bhhh" {
        local vce opg
    }
    else local vce oim
}
- if inlist(``vce'', "robust", "cluster") & bsubstr(``evaltype'',1
>,1) == "d" {
= if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1) ==
>"d" {
    local optname = cond(``svy''==``'',`vce(`vce')','`svy')
    di as err "option `optname' is not allowed with evaltype `evalty
> pe''"
        exit 198
    }
- if `:length local crittype' == 0 {
= if 0 == 0 {
- if inlist(``vce'', "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
- local crittype "log pseudolikelihood"
}
- else local crittype "log likelihood"
}
- global ML_waldtest `waldtest'
= global ML_waldtest -1
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {

```

```

SetGlobalVar ML_w : _MLw
}
else {
global ML_w : tempvar
if `""`moptobj""' != "" {
global ML_w `moptobj'$ML_w
}
}
}
-
if `:length local weight' {
= if 0 {
if `""`moptobj""' != "" {
cap drop $ML_w
}
quietly gen double $ML_w `exp' if $ML_samp
local wtype `""`weight"""
local wexp `""`exp"""
global ML_wtyp : copy local wtype
global ML_wexp : copy local wexp
if "`wtype'" == "iweight" | "`svy'" != "" {
local zeroweight zeroweight
}
}
-
if inlist(`vce', "svy", "cluster") {
= if inlist("robust", "svy", "cluster") {
if `interactive' {
SetGlobalVar ML_subv : _MLsu
}
else {
global ML_subv : tempvar
if `""`moptobj""' != "" {
global ML_subv `moptobj'$ML_subv
}
}
}
-
quietly count if $ML_sample
= quietly count if __000006
-
if r(N) == 0 {
error 2000
}
-
if `""`weight""' != "" {
= if `""' != "" {
quietly count if $ML_sample & $ML_w != 0
if r(N) == 0 {
di in gr "all observation have zero weights"
exit 2000
}
}
}

```

```

        }
    }
- if `:length local lf0' {
= if 20 {
- if `:list sizeof lf0' != 2 {
= if 2 != 2 {
    di as err "lf0(`lf0') invalid"
    exit 198
}
- global ML_k0 : word 1 of `lf0'
= global ML_k0 : word 1 of 2 -414.2287919313009
- global ML_ll_0 : word 2 of `lf0'
= global ML_ll_0 : word 2 of 2 -414.2287919313009
- confirm integer number $ML_k0
= confirm integer number 2
- confirm number $ML_ll_0
= confirm number -414.2287919313009
- if $ML_k0 < 0 {
= if 2 < 0 {
    di as err "lf0(`lf0') invalid"
    exit 198
}
- }
- if "`obs'" == "" {
= if "" == "" {
- if "`wtype'" != "fweight" {
= if "" != "fweight" {
- quietly count if $ML_sample
= quietly count if __000006
- local obs = r(N)
- }
- else {
    sum $ML_w if $ML_sample, mean
    local obs = r(sum)
}
- }
- if `:length local iterid' {
= if 0 {
    local iterid = trim(bsubstr(``iterid''',1,32))
}
- if `:length local crittype' {
= if 20 {
- local crittype = trim(bsubstr(``crittype''',1,32))
= local crittype = trim(bsubstr(`"log pseudolikelihood"',1,32))
}
- if `:length local derivscale' {

```

```

= if 0 {
    confirm matrix `derivscale'
}
- if `:length local derivh' {
= if 0 {
    confirm matrix `derivh'
}
- local l : strlen local deriv
- ParseUsemin, `deriv' len(`l')
= ParseUsemin, len(0)



---


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

```

```

> or a 1X2 matrix be specified"
    exit 198
}
local deriv 1
}
- else {
- if (`len' > 0) {
= if (0 > 0) {
    if ("`nomin'" == "") {
        di as err "option {bf:min()} requires that either two numbers
> or a 1X2 matrix be specified"
    exit 198
}
else if (`len' > length(``nomin'')) {
    di as err "options {bf:min()} and {bf:nomin} are mutually excl
> usive"
    exit 198
}
else {
    local deriv 0
}
}
- else {
- local deriv 0
- }
- }
- sreturn local deriv `deriv'
= sreturn local deriv 0

```

---

```

> _____ end mopt.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_program
> m _____
- version 10
- args name
- capture confirm name `name'
= capture confirm name nbreg_lf
- if c(rc) {

```

```

        di as err "unrecognized command: `name' invalid command name
> "
        exit 199
    }
    - capture which `name'
    = capture which nbreg_lf
    - if !c(rc) {
    - exit


---


> _____ end mopt_check_program
> m _____
    - global ML_stat model
    - if !`interactive' {
    = if !0 {
    - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptob
> j')
    = version 18: MaxMin maximize, nooutput search(off) moptobj()


---


> _____ begin mopt.MaxMi
> n _____
    - local vv : di "version " string(_caller()) ":""
    - version 12
    - ChkMacros


---


> _____ begin mopt.ChkMacro
> s _____
    - if "$ML_stat" != "model" {
    = if "model" != "model" {
        di as err "you must issue -ml model- first"
        exit 198
    }
    - capture confirm var $ML_samp $ML_w $ML_subv
    = capture confirm var __000006 __000006
    - if c(rc) {
        di as err "Since issuing the -ml model- statement, you have
> done something to drop" _n "temporary variables ml added to your data. You
> must start again."
        Clear
        exit 111
    }


---


> _____ end mopt.ChkMacro
> s _____
    - syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0)
> LTOLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) Q
> TOLerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numlist m

```

```

> ax=1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly DOOPT S
> EArch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCLEAR
> NOL0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GRADie
> nt Hessian noSKIpline noOUTput Level(cilevel) moptobj(string) *
      - if `:length local nrtolerance' {
      = if 0 {
          opts_exclusive "nrtolerance() `nonrtolerance'"
      }
      - if `:length local qtolerance' {
      = if 0 {
          opts_exclusive "qtolerance() `nonrtolerance'"
      }
      - opts_exclusive "`nonrtolerance' `shownrtolerance'"
      = opts_exclusive " "


---


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


---


> _____ end opts_exclusiv
> e _____
      - if `:length local shownrtolerance' {
      = if 0 {
          local showtolerance showtolerance
      }
      - if "$ML_preserve" != "no" {
      = if "no" != "no" {
          if `:length local score' {
              di as smcl as err "May not specify {bf:score()} option unless"
> _n "      a) estimation subsample is the entire data in memory, or" _n "
> b) you specify option {bf:nopreserve} on {bf:ml model} statement (meaning"
> _n "          your evaluation program explicitly restricts itself to obs" _n "
> "          for which {bf:$}" "{bf:ML_samp==1}.""
          exit 198

```

```

        }
preserve
local N = c(N)
quietly keep if $ML_sample
if (`N' != c(N)) {
mata: Mopt_init_regetviews()
}
}
- if `:length local score' {
= if 0 {
SetupScore `"$ML_evaltype"' `"`score'"' $ML_n $ML_dim
local scores "`s(scores)'"
}
- _parse_iterlog, `nolog' `log'
= _parse_iterlog,


---


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


---


> _____ end _parse_iterlo
> g _____
    - local log "`s(nolog)'"
= local log ""
    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `
> coefdiffs'
    = local tropts
    - if "`tropts'" != "nolog" {
= if "" != "nolog" {
    - local tropts `tropts' `gradient' `hessian'

```

```

= local tropts
- if "`skipline'" == "" {
= if "" == "" {
- if "`iterate'" != "0" | `:length local tropts' {
= if "" != "0" | 0 {
- di

- }
- }
- }

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

```

---

```

> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar

```

```

= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "y_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
    - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsum __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __00000==. { exit }
- tempfile alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __00006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(y_timing_max-__00000Y) if __0000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 000006
- }
- }
- $ML_ec tempfile g1 g2
= * tempfile g1 g2
- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
= * mlvecsum __00000 = __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 0: Log pseudolikelihood = -376.08584

> _____ 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 | __000000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile lnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsum __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __000000==. { exit }
        - tempfile alpha
        - tempvar mu p
        - quietly {
        - gen double `mu' = exp(`xb') if $ML_samp
        = gen double __00000Y = exp(__00000U) if __000006
        - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
        = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
        - if `lnalpha'<-20 {
        = if __00000V<-20 {

```

```

        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(y_timing_max-__00000Y) if __000
> 006
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 000006
        - }
        - }
- $ML_ec tempname g1 g2
= * tempname g1 g2
- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
= * mlvecsum __000000 = __00000R, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __000000 = __00000S, eq(2)
- $ML_ec matrix `g' = (`g1', `g2')
= * matrix __00000P = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __000000==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __000010 = exp(__0000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlmatsum `lnf' `d11' = `mu', eq(1)
    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
= mlmatsum __000000 __000011 = __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 = -367.53296


---


> _____ begin nbreg_l
> f _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempfile llnalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `llnalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`llnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `llnalpha' < -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'+`llnalpha')) - `y'*ln1p(exp(-`xb'-`llnalpha'))
        = 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 lalpha 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
- tempfile lalpha 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 {

```

```

- mlsu $m$  `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsu $m$  __00000 = lngamma(__0000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__0000W) - __0000W*ln1p(exp(__0000U+__0000V)) -
> y_timing_max*ln1p(exp(-__0000U-__0000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __00000==. { exit }
- tempname 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 __000
> 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 __000
> 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 __
> 00006
- }
- }
$ML_ec tempname g1 g2
= * tempname g1 g2
$ML_ec mlecsu $m$  `lnf' `g1' = `sc1', eq(1)
= * mlecsu $m$  __00000 = __0000R, eq(1)
$ML_ec mlecsu $m$  `lnf' `g2' = `sc2', eq(2)
= * mlecsu $m$  __00000 = __0000S, eq(2)
$ML_ec matrix `g' = (`g1', `g2')
= * matrix __0000P = (,)
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __00000==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __00010 = exp(__0000V)
- if `lnalpha' < -20 {

```

```

= if __00000V < -20 {
    mleval `lnf' `d11' = `mu', eq(1)
    mleval `lnf' `d12' = 0, eq(1,2)
    mleval `lnf' `d22' = 0, eq(2)
}
- else {
- mleval `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mleval __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(y_timing_max-__00000Y)+1), eq(1)
            - mleval `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
            = mleval __000000 __000012 = __000010*__00000Y*__00000Z^2*(y
> _timing_max-__00000Y), eq(1,2)
            - mleval `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)
            = mleval __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(y_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(y_timing_m
> ax+__00000W) - trigamma(__00000W)) + __00000Y*__00000Z*(__000010*__00000Z*(
> y_timing_max-__00000Y)- 1), eq(2)
            -
- matrix `H' = (`d11', `d12' \ `d21', `d22')
= matrix __00000Q = (__000011, __000012 \ __000012', __000013)

> _____ end nbreg_l
> f _____
Iteration 2: Log pseudolikelihood = -366.68403

> _____ 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 {
        - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsu __000000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l
> f _____
        - version 6.0
        - args todo b lnf g H sc1 sc2
        - tempvar xb
        - tempfile lnalpha m
        - mleval `xb' = `b', eq(1)
        = mleval __00000U = __00000N, eq(1)
        - mleval `lnalpha' = `b', eq(2) scalar
        = mleval __00000V = __00000N, eq(2) scalar
        - local y "$ML_y1"
        = local y "y_timing_max"
        - scalar `m' = exp(-`lnalpha')
        = scalar __00000W = exp(-__00000V)
        - if `lnalpha' < -20 {
        = if __00000V < -20 {
            mlsu `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
        }
        - else {
        - mlsu `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsu __000000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000==. { exit }



---


> _____ end nbreg_l
> f _____


---


> _____ begin nbreg_l

```

```

> f -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnlalpha m
    - mleval `xb' = `b', eq(1)
    = mleval __00000U = __00000N, eq(1)
    - mleval `lnlalpha' = `b', eq(2) scalar
    = mleval __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "y_timing_max"
    - scalar `m' = exp(-`lnlalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnlalpha' < -20 {
    = if __00000V < -20 {
        mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnlalpha')) - `y'*ln1p(exp(-`xb'-`lnlalpha'))
        = mlsum __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
        -
        - if `todo' == 0 | `lnf'==. { exit }
        = if 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'+`lnlalpha')) if $ML_samp
            = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __0000
> 06
        - if `lnlalpha'<-20 {
        = if __00000V<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp
        }
        - else {
            - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
            = replace __00000R = __00000Z*(y_timing_max-__00000Y) if __0000
> 006
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p
> ')) + `p'*(`y'-`mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(y_t

```

```

> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(y_timing_max-__00000Y) if __
> 000006
    -
    -
    - $ML_ec tempname g1 g2
    = * tempname g1 g2
    - $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)
    = * mlvecsum __000000 = __00000R, eq(1)
    - $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
    = * mlvecsum __000000 = __00000S, eq(2)
    - $ML_ec matrix `g' = (`g1','`g2')
    = * matrix __00000P = (,)
    - if `todo' == 1 | `lnf'==. { exit }
    = if 2 == 1 | __000000==. { exit }
    - tempname alpha d11 d12 d22
    - scalar `alpha' = exp(`lnalpha')
    = scalar __000010 = exp(__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlmatsum `lnf' `d11' = `mu', eq(1)
        mlmatsum `lnf' `d12' = 0, eq(1,2)
        mlmatsum `lnf' `d22' = 0, eq(2)
    }
    - else {
    - mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(y_timing_max-__00000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(y
> _timing_max-__00000Y), eq(1,2)
        - mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(y_timing_max+__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 = -366.66184

```

---

```

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

```

---

```

- if `lnalpha' < -20 {
= if __00000V < -20 {
    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
- tempfile lnalpha m
- mleval `xb' = `b', eq(1)
= mleval __00000U = __00000N, eq(1)
- mleval `lnalpha' = `b', eq(2) scalar
= mleval __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "y_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m
> ') - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsum __00000 = lngamma(__00000W+y_timing_max) - lngamma(y_
> timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V)) -
> y_timing_max*ln1p(exp(-__00000U-__00000V))
-
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __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 mlecsu `lnf' `g1' = `sc1', eq(1)
    = * mlecsu __000000 = __00000R, eq(1)
    - $ML_ec mlecsu `lnf' `g2' = `sc2', eq(2)
    = * mlecsu __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 {
        mlecsu `lnf' `d11' = `mu', eq(1)
        mlecsu `lnf' `d12' = 0, eq(1,2)
        mlecsu `lnf' `d22' = 0, eq(2)
    }
    - else {
    - mlecsu `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-'mu')+1),
> eq(1)
        = mlecsu __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 4: Log pseudolikelihood = -366.66177
> _____ 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 | __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 }
- 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 __00000 = __00000R, eq(1)
- $ML_ec mlvecsum `lnf' `g2' = `sc2', eq(2)
= * mlvecsum __00000 = __00000S, eq(2)

```

```

- $ML_ec matrix `g' = (`g1','`g2')
= * matrix __00000P = (,
- if `todo' == 1 | `lnf'==. { exit }
= if 2 == 1 | __000000==. { exit }
- tempname alpha d11 d12 d22
- scalar `alpha' = exp(`lnalpha')
= scalar __000010 = exp(__0000V)
- if `lnalpha' < -20 {
= if __0000V < -20 {
    mlmatsum `lnf' `d11' = `mu', eq(1)
    mlmatsum `lnf' `d12' = 0, eq(1,2)
    mlmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1),
> eq(1)
        = mlmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__0
> 0000Z*(y_timing_max-__0000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2
> )
        = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(y
> _timing_max-__0000Y), eq(1,2)
        - mlmatsum `lnf' `d22' = `m'*(digamma(`m') - digamma(`y'+`m')
> - ln(`p') - `m'*(trigamma(`y'+`m') - trigamma(`m')) + `mu'*`p'*(`alpha'*`p'
> *(`y'-`mu')- 1), eq(2)
        = mlmatsum __000000 __000013 = __00000W*(digamma(__00000W) - d
> igamma(y_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(y_timing_m
> ax+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z*(
> y_timing_max-__0000Y)- 1), eq(2)
        -
- matrix `H' = (`d11','`d12' \ `d12'' ,`d22')
= matrix __00000Q = (__000011,__000012 \ __000012',__000013)


---


> _____ end nbreg_l
> f _____
Iteration 5: Log pseudolikelihood = -366.66177


---


> _____ 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])"
}
}
- tempname 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_svy
> y _____
- local is_svy = r(is_svy)
- if replay() & `is_svy' == 0 {
= if replay() & 0 == 0 {
    _test `0'
    return add
    exit
}
- version 8
- WaldTest `is_svy' `0'
= WaldTest 0 ([#1]),

> _____ begin test.WaldTes
> t _____
- gettok is_svy 0 : 0
- if "`is_svy'" == "1" {
= if "0" == "1" {
    if "`e(complete)'" == "available" {
        di as err `must run svy command with "complete" "' opt
> ion before using this command"
    exit 301
}
}
- gettok tok : 0, parse(" (,)") bind
- local single single
- local zero `"\000"
= local zero `"( [#1]) , "
- if `"\000tok'" == "(" {
= if `"( "' == "(" {
- local single
- while `"\000tok'" == "(" {
= while `"( "' == "(" {
- gettok tok 0 : 0, parse(" (,)") match(paren) bind
- local eqns `"\eqns`"\000tok'"
= local eqns `"\`[#1]"
- gettok tok : 0, parse(" (,)") bind
- }
- while `"\000tok'" == "(" {
= while `",," == "(" {
    gettok tok 0 : 0, parse(" (,)") match(paren) bind
    local eqns `"\eqns`"\000tok'"
    gettok tok : 0, parse(" (,)") bind
}

```

```

- if `"`tok`"" != "," & `"`tok`"" != "" {
= if `","` != "," & `","` != "" {
    local single single
}
-
- if "`single`""=="single" {
= if ""=="single" {
    local eqns
    local 0 `"`zero`"""
    while `"`tok`"" != "" & `"`tok`"" != "," {
        gettoken tok 0 : 0, parse(" ,") bind
        local eqns `"`eqns` `tok`"""
        gettoken tok : 0, parse(" ,") bind
    }
    local eqns `""`eqns`"""
}
-
syntax [, Accumulate noSVYadjust common CONStant MINimum
> Mtest Mtest2(passthru) noTest COEF matvlc(passthru) DF(numlist max=1 >0) ]
- if "`df`" != "" {
= if "" != "" {
    local dof = `df'
}
-
- else if "`e(df_r)`" !="" {
= else if "" !="" {
    local dof = e(df_r)
}
-
- else {
- local dof =
- }
-
- if `"`mtest` `mtest2`"" != "" {
= if `""` != "" {
    if inlist("`e(cmd)`", "svymean", "svytotal", "svyratio")
> {
    di as err `"mtest option not allowed after `e(cmd)`"""
    exit 301
}
-
_mtest syntax, `mtest' `mtest2'
local mtmethod `r(method)'
-
- if "`mtmethod`" != "" {
= if "" != "" {
    if ``test`" != "" {
        di as err "options mtest and notest may not be combined"
        exit 198
    }
    if ``accumulate`" != "" {

```

```

        di as err "options mtest and accumulate may not be combi
> ned"
        exit 198
    }
}
}
- if `is_svy' {
= if 0 {
    if ```e(cmd)''' == "margins" {
        local vce ```e(model_vce)'''"
    }
    else local vce ```e(vce)'''"
    if inlist(```vce'''", "bootstrap", "sdr") {
        if missing(`dof') {
            local svyadjust nosvyadjust
        }
    }
}
- if !`is_svy' & ```svyadjust'' != "" {
= if !0 & "" != "" {
    di as err "option nosvyadjust is allowed only with svy d
> ata"
        exit 198
    }
- local svy_adjust = `is_svy' & ```svyadjust'' == ""
= local svy_adjust = 0 & "" == ""
- if `svy_adjust' & missing(`dof') & (missing(e(N_psu)) |
> missing(e(N_strata))) {
= if 0 & missing(.) & (missing(e(N_psu)) | missing(e(N_str
> ata))) {
    di as err "impossible to adjust p-values"
    exit 198
}
- if `is_svy' & ```test''' == "" {
= if 0 & ```''' == "" {
    if ```svyadjust'' == "" {
        di _n as txt "Adjusted Wald test"
    }
    else di _n as txt "Unadjusted Wald test"
}
- local tmp : subinstr local eqns "====" "", all count(loc
> l nch)
- if `nch' > 0 {
= if 0 > 0 {
    di as err "==== invalid operator"
    exit 198
}

```



```
> s _____  
- local explist `""`r(explist)`""'  
= local explist `""`[#1]"""  
- local nexp `r(nexp)'  
= local nexp 1  
- local acc `accumulate'  
= local acc  
- foreach exp of local explist {  
- quietly _test `exp' , `acc' `common' `constant' notest  
= quietly _test [#1] , notest  
- local acc acc  
- }  
- if "`test'" == "notest" {  
= if "" == "notest" {  
    _test , notest  
    exit  
}  
- quietly _test , `matvlc'  
= quietly _test ,  
- if `dof' < . {  
= if . < . {  
    local testtype F  
    tempname F df1 df2 p drop  
    if "`r(F)'" != "" {  
        scalar `F' = r(F)  
    }  
    else {  
        scalar `F' = r(chi2)/r(df)  
    }  
    scalar `df1' = r(df)  
    scalar `df2' = `dof'  
    scalar `p' = Ftail(`df1', `df2', `F')  
    scalar `drop' = r(drop)  
}  
- else {  
- local testtype chi2  
- tempname chi2 df1 p drop  
- scalar `chi2' = r(chi2)  
= scalar __00000Y = r(chi2)  
- scalar `df1' = r(df)  
= scalar __00000Z = r(df)  
- scalar `p' = r(p)  
= scalar __000010 = r(p)  
- scalar `drop' = r(drop)  
= scalar __000011 = r(drop)  
- }
```

```

- local i 1
- while "`r(dropped_`i')'" != "" {
= while "" != "" {
    local dropped_`i' `r(dropped_`i)'
    local ++i
}
- if `svy_adjust' {
= if 0 {
    if "`df'" != "" {
        local svy_d = `df'
    }
    else if !missing(e(df_r)) {
        local svy_d = e(df_r)
    }
    else local svy_d = e(N_psu)-e(N_strata)
    if missing(`svy_d') {
        di as err "internal error in adjustment for svy"
        exit 10001
    }
    if "`testtype'" == "F" {
        scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
    }
    else {
        tempname F df2
        scalar `F' = ((`svy_d'-`df1'+1)/(`svy_d'*`df1')) * `chi2
    }
    scalar `df2' = `svy_d' - `df1' + 1
    if `df2' < 0 {
        scalar `F' = .
    }
    scalar `p' = Ftail(`df1', `df2', `F')
    local testtype F
}
- if "`mtmethod'" != "" {
= if "" != "" {
    tempname R r Rr V b VR tm Wald
    mat `V' = e(V)
    mat `b' = e(b)
    mat `Rr' = get(Rr)
    local nb = rowsof(`V')
    local nr = rowsof(`Rr')
    mat `R' = `Rr'[1...,1..`nb']
    mat `VR' = `R'*`V'*`R'
    mat `r' = `R'*`b' - `Rr'[1...,=`nb'+1']
    mat `Wald' = `r'*syminv(`VR')*`r'
> '

```

```

    mat `tm' = J(`nr', 3, .)
    mat colnames `tm' = `testtype' df p
    forvalues it = 1 / `nr' {
        mat `Wald' = `r'[`it',1]^2 / `VR'[`it',`it']
        mat `tm'[`it',1] = `Wald'[1,1]
        mat `tm'[`it',2] = 1
        if `svy_adjust' {
            mat `tm'[`it',3] = Ftail(1,`svy_d',`tm'[`it',1])
        }
        else if "`testtype'" == "chi2" {
            mat `tm'[`it',3] = chi2tail(1,`tm'[`it',1])
        }
        else {
            mat `tm'[`it',3] = Ftail(1,`df2',`tm'[`it',1])
        }
        if "`mtmethod'" != "noadjust" {
            _mtest adjust `tm', mtest(`mtmethod') pindex(3) append
            mat `tm' = r(result)
            local pindex 4
        }
        else local pindex 3
    }
    - _test, notest
    - local i 1
    - while "`dropped_`i'" != "" {
    = while "" != "" {
        di as txt "      Constraint `dropped_`i'' dropped"
        local ++i
    }
    - if "`mtmethod'" == "" {
    = if "" == "" {
        - di
        - if "`testtype'" == "chi2" {
        = if "chi2" == "chi2" {
            - di as txt _col(12) "chi2(%3.0f `df1' )" =" as res %8.2
    > f `chi2'
            = di as txt _col(12) "chi2(%3.0f __00000Z )" =" as res %
    > 8.2f __00000Y
            - di as txt _col(10) "Prob > chi2 = " as res %8.4f `p'
            = di as txt _col(10) "Prob > chi2 = " as res %8.4f __0000
    > 10
            - }
            - else {
                di as txt "      F(%3.0f `df1' ,%6.0f `df2' )" =" as res %8.2f `F'
    > as res %8.2f `F'

```

```

        di as txt _col(13) "Prob > F =" as res %10.4f `p'
    }
}
- }
- else {
    local nexp = rowsof(`tm')
    local nc = colsof(`tm')
    if "`testtype'" == "F" {
        local d "F(df,`=`df2')"
        local dip "p > F"
    }
    else {
        local d chi2
        local dip "p > chi2"
    }
    di
    di as txt "{hline 7}{c TT}{hline 30}"
    di as txt "      {c |}{ralign 12:`d'}      df{ralign 11:
> `dip'}"
    di as txt "{hline 7}{c +}{hline 30}"
    forvalues it = 1 / `nexp' {
        di as txt "  (`it') {c |}" as res _col(12) %9.2f `tm'[`it',1] _col(22) %6.0f `tm'[`it',2] _col(33) %6.4f `tm'[`it','pindex'] as txt
> "*"
    }
    di as txt "{hline 7}{c +}{hline 30}"
    di as txt "  All {c |}" as res _col(12) %9.2f ``testtyp
> e'' _col(22) %6.0f `df1' _col(33) %6.4f `p'
    di as txt "{hline 7}{c BT}{hline 30}"
    _mttest footer 1 ``mtmethod'' "* "
}
- if "`coef'" != "" {
= if "" != "" {
    Table
}
- return scalar p = `p'
= return scalar p = __000010
- return scalar df = `df1'
= return scalar df = __00000Z
- if "`testtype'" == "F" {
= if "chi2" == "F" {
    return scalar F = `F'
    return scalar df_r = `df2'
}
- else return scalar chi2 = `chi2'
= else return scalar chi2 = __00000Y
- return scalar drop = `drop'

```

```

= return scalar drop = __000011
- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    return scalar dropped_`i' = `dropped_`i'
    local ++i
}
- if "`mtmethod'" != "" {
= if "" != "" {
    return matrix mtest `tm'
    return local mtmethod `mtmethod'
}



---


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


---


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


---


> _____ begin tes
> t _____
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit
}
- is_svy


---


> _____ begin is_sv

```

```

> y -----
    - version 8
    - syntax [, Regression]
    - if `e(prefix)` == "svy" {
    = if `=""` == "svy" {
        return scalar is_svy = 1
    }
    - else if "`regression'" == "" {
    = else if "" == "" {
        - return scalar is_svy = ("`e(N_psu)' != "")
    = return scalar is_svy = ("" != "") & (`rc' == 0)
    - }
    - else {
        capt mat list e(b)
        local rc = _rc
        return scalar is_svy = ("`e(N_psu)' != "") & (`rc' == 0
    )
}
----- end is_sv

> -----
> y -----
    - local is_svy = r(is_svy)
    - if replay() & `is_svy' == 0 {
    = if replay() & 0 == 0 {
        - _test `0'
    = _test , min
    - return add
    - exit
}
----- end tes

> -----
> t -----
    - }
    - ereturn scalar df_m = r(df)
    - local drop = r(drop)
    - if `drop' {
    = if 0 {
        local drop 0
        local i 1
        local idrop `r(dropped_`i')'
        while "`idrop'" != "" {
            if !`omit'[1,`idrop'] {
                local ++drop
            }
            local ++i
            local idrop `r(dropped_`i')'
        }
}

```

```

        }
        - if `drop' == 0 | "`cns'" != "" {
        = if 0 == 0 | "" != "" {
        - if !missing(e(df_r)) {
            ereturn scalar F = r(F)
            }
        - else {
            - ereturn scalar chi2 = r(chi2)
            - ereturn local chi2type Wald
            - }
            - ereturn scalar p = r(p)
            - }
            - else {
                if !missing(e(df_r)) {
                    ereturn scalar F = .
                }
                else {
                    ereturn scalar chi2 = .
                    ereturn local chi2type Wald
                }
                ereturn scalar p = .
            }
            - }
            - else {
                if missing(e(df_r)) {
                    ereturn local chi2type Wald
                }
                ereturn scalar df_m = 0
            }
        
```

---

```

> _____ end _prefix_model_tes
> t _____
        - }
        - else {
            _prefix_model_test, $ML_svy $ML_noadj
            }
        - }
        - else if `:length global ML_ll_0' {
        = else if 18 {
            if `"`maxmin'"' == "minimize" {
                ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
            }
            else {
                ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
            }
            ereturn scalar p = chi2tail(e(df_m), e(chi2))
        }
    
```

```

        ereturn local chi2type "LR"
    }
- if `:length global ML_wexp' {
= if 0 {
    ereturn local wtype `"$ML_wtyp"'
    ereturn local wexp `"$ML_wexp"'
}
- if `:length global ML_group' {
= if 0 {
    ereturn local group `"$ML_group"'
    if `"`e(clustvar)'"' == "$ML_grp" & "$ML_grp" != "" {
        ereturn local clustvar `"$ML_group"'
    }
}
- ereturn local cmd "ml"
- if `:length local score' {
= if 0 {
    mata: Mopt_score(0)
    ereturn local scorevars `scores'
}
- if "$ML_preserve" != "no" {
= if "no" != "no" {
    restore
    if `"`e(prefix)'"' == "svy" & e(N_strataomit) {
        tempname v
        quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v')
> subpop(`e(subpop)') touse($ML_sample)
    }
    ereturn repost, esample($ML_sample)
}
- if `"`moptobj'"' != "" {
= if `""' != "" {
    local clear noclear
}
- if !`:length local clear' {
= if !0 {
- Clear

```

---

```

> _____ begin mopt.Clea
> r _____
    - syntax [, NOTANOPTION]
    - capture drop $ML_w
    = capture drop __000006
    - capture drop $ML_samp
    = capture drop __000006
    - capture drop $ML_sample

```

```

        = capture drop __000006
        - capture drop $ML_subv
        = capture drop
        - capture drop $ML_grp
        = capture drop
        - mata: Mopt_drop_external()
        - macro drop ML_*


---


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


---


> _____ end mopt.MaxMi
> n _____
    - }


---


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


---


> _____ end mop
> t _____
    - exit


---


> _____ end m
> l _____
    - est local cmd
    - if "`score'"!="`" {
    = if ""!=`" {
        label var `scvar1' "Score index for x*b from nbreg"
        rename `scvar1' `scname1'

```

```

label var `scvar2' "Score index for /ln`parm' from nbreg"
rename `scvar2' `scname2'
est local scorevars `scname1' `scname2'
}
- _b_pclass PCDEF : default


---


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


---


> _____ 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 `"PCDEF "' == ":" {
    sreturn local after `"`after"'
    exit
}
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `""' != ":" & `": default"' != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if "`par'" != "" {
= if "" != "" {
        local before `before' (`COLON')
        local COLON
}
- else if `"`COLON'"' != ":" {
= else if `":"' != ":" {
        local before `"`before' `COLON"'
        local COLON
}
- }
- while `"`COLON'"' != ":" & `"`after'"' != "" {
= while `":"' != ":" & `": default"' != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if "`par'" != "" {

```

```

local before `before' (`COLON')
local COLON
}
else if `""`COLON""' != ":" {
local before `""`before' `COLON"""
local COLON
}
}
- if `""`COLON""' != ":" {
= if `":"' != ":" {
di as err ""' found where ':' expected"
exit 198
}
- sreturn local before `""`before"""
= sreturn local before `""PCDEF """
- sreturn local after `""`after"""
= sreturn local after `"" default"""

> _____ end _on_colon_pars
> e _____
    - local c_value `""`s(before)"""
    = local c_value `""PCDEF """
    - local key `""`s(after)"""
    = local key `"" default"""
    - confirm name `c_value'
    = confirm name PCDEF
    - mata: st_b_pclass(`":list retok key"')
    = mata: st_b_pclass("default")
    - c_local `c_value' `value'
    = c_local PCDEF 0

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

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

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

```

```

- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quotes
- if ``par'' != "" {
= if "" != "" {
    local before `"(`before')"`
}
- if ```before'''' == ":" {
= if ``PCAUX '' == ":" {
    sreturn local after ```after'''''
    exit
}
- while ```COLON'''' != ":" & ```after'''' != "" {
= while ``":'' != ":" & ``:` aux'' != "" {
- gettoken COLON after : after, parse(":") bind match(par) quotes
- if ``par'' != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
}
- else if ```COLON'''' != ":" {
= else if ``:`'' != ":" {
    local before ```before' `COLON'''''
    local COLON
}
- }
- while ```COLON'''' != ":" & ```after'''' != "" {
= while ```:'' != ":" & ``:` aux'' != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if ``par'' != "" {
        local before `before' (`COLON')
        local COLON
}
- else if ```COLON'''' != ":" {
        local before ```before' `COLON'''''
        local COLON
}
- if ```COLON'''' != ":" {
= if ```:'' != ":" {
    di as err ``` found where `:' expected"
    exit 198
}
- sreturn local before ```before'''''
= sreturn local before ``PCAUX ''
- sreturn local after ```after'''''
= sreturn local after ``` aux'''

```

---

```

> _____ end _on_colon_pars
> e _____
- local c_value `"`s(before)`"`
= local c_value `"`PCAUX `"`
- local key `"`s(after)`"`
= local key `"` aux``
- confirm name `c_value'
= confirm name PCAUX
- mata: st_b_pclass(``list retok key``')
= mata: st_b_pclass("aux")
- c_local `c_value' `value'
= c_local PCAUX 2
_____

```

---

```

> _____ end _b_pclas
> s _____
- tempname pclass
- matrix `pclass' = e(b)
= matrix __000006 = e(b)
- local dim = colsof(`pclass')
= local dim = colsof(__000006)
- matrix `pclass'[1,1] = J(1,`dim','PCDEF')
= matrix __000006[1,1] = J(1,8,0)
- matrix `pclass'[1,`dim'] = `PCAUX'
= matrix __000006[1,8] = 2
- est hidden matrix b_pclass `pclass'
= est hidden matrix b_pclass __000006
- if "`llp'"!=""
= if ""!="
    est local chi2_ct "LR"
    est scalar ll_c = `llp'
    if (e(ll) < e(ll_c)) | (_b[/ln`parm'] < -20) {
        est scalar chi2_c = 0
    }
    else est scalar chi2_c = 2*(e(ll)-e(ll_c))
}
- est scalar r2_p = 1 - e(ll)/e(ll_0)
- est scalar k_aux = 1
- est hidden local diparm_opt2 noprobit
- est scalar `parm' = exp(_b[/ln`parm'])
= est scalar alpha = exp(_b[/lnalpha])
- est local dispers ``dispers``
= est local dispers "mean"
- est local offset ``offvar``
= est local offset ""
- est local offset1

```

```

- est hidden local marginsderiv default N IR
- est local predict "nbreg_p"
- est local cmd "nbreg"
- global S_E_ll = e(ll)
- global S_E_ll0 `e(ll_0)'
= global S_E_ll0 -414.2287919313009
- global S_E_llc `e(ll_c)'
= global S_E_llc
- global S_1 `e(chi2_c)'
= global S_1
- global S_E_chi2 = e(chi2)
- global S_E_mdf = e(df_m)
- global S_E_pr2 `e(r2_p)'
= global S_E_pr2 .1148327237136871
- global S_E_nobs = e(N)
- global S_E_tdf = e(N)
- global S_E_off `e(offset)'
= global S_E_off
- global S_E_depv `e(depvar)'
= global S_E_depv y_timing_max
- global S_E_cmd `e(cmd)'
= global S_E_cmd nbreg
- if "`display'"==""
= if ""==""
- Display, `irr' level(`level') `diopts'
= Display, level(95)


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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

```

```

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


---


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


---


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


---


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


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local 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 fvwrapon fvwrapon(`fvwrapon')
    }
    _____ end _get_diopts.Wrapo
> n _____
    - if ``fvwrap''' != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvwrapon' `fvlabel' `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)
- }
- 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 ``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 "`fwrap'" != "" {
= if "" != "" {
    FWrap, `fwrap'
  }
  - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fwrapon' `fvlabel' `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 `""` == "" {
  - GetDiopts DUPS, `options'
= GetDiopts DUPS,
  -----
> ----- begin _get_diopts.GetDiopt
> s -----
  - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sf
> ormat(string) pformat(string) CODING VERSUS COMPARE FWRAP(passthru) FWRAPON
> N(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBRE
> V ABBREV
  - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels
> ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcell
> s EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cform
> at(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRAP(pass
> thru) FWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pass
> thru) NOABBREV ABBREV *]
  - opts_exclusive "allbaselevels" `noallbaselevels"

```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
= local opts
  - local n 0
  - while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
  - if `n' < 2 {
= if 0 < 2 {
    - exit


---


> _____ end opts_exclusiv
> e _____
  - opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlabel' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts```` != "" {
= while `""` != "" {
    local ++n

```

```

        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 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 `"


---



```

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```
> _____ begin opts_exclusiv
```

```

> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts`""' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }

> ----- end opts_exclusiv
> e -----
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }

> ----- end _get_diopts.Wrapo
> n -----
    - if ""`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `abbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""`options`"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'

```

```

= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- }
- else {
  GetDiopts DUPs options, `options'
  c_local `name2' `""`options"""
  }
- local DUPs : list DUPs - DEFAULT
- gettoken DUPs : DUPs
- if `""`DUPs"" != "" {
= if `""` != "" {
  if (strpos(`""`DUPs""", "(")) {
    gettoken DUPs : DUPs, parse("(")
    local DUPs `""`DUPs'()"'
  }
  di as err "duplicate {bf:`DUPs'} option not allowed"
  exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = `""`S_`sname"""
= sreturn local level = `""95"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local after = `""aux"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local before = `""PCAUX """
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local log = `""log"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local deriv = `""0"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local namelist = `""cluster"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local optlist = `""CLuster"""
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k_fill = `""8"""
- }

```

```

- sreturn local `sname' = `""`$_`sname"""
= sreturn local k = `"8"""
- }



---


> _____ 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
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts""` != ""` {
    = while `""` != ""` {
        local ++
        gettoken item`n` opts : opts, bind
    }
    - if `n` < 2 {

```

```
= if `0' < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``allbaselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`\n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`\n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
```

```

> e -----
  - opts_exclusive ``emptycells' `noemptycells''
  = opts_exclusive " "
  -----
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  -----
> ----- end opts_exclusiv
> e -----
  - opts_exclusive ``fvlabel' `nofvlabel''
  = opts_exclusive " "
  -----
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `""`opts"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
  -----
> ----- end opts_exclusiv
> e -----
  - opts_exclusive ``omitted' `noomitted''
  = opts_exclusive " "

```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {

```

```

= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `~`opts`~' != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `~`opts`~' != "" {
= while `""' != "" {
  local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local allbaselevels `allbaselevels' `noallbaselevels'
= local allbaselevels
- local baselevels `baselevels' `nobaselevels'
= local baselevels
- local emptycells `emptycells' `noemptycells'
= local emptycells
- local omitted `omitted' `noomitted'
= local omitted
- local lstretch `lstretch' `nolstretch'
= local lstretch
- local fylabel `fylabel' `nofylabel'
= local fylabel
- local abbrev `abbrev' `noabbrev'
= local abbrev
- if ```allbaselevels' `baselevels''' == "" {
= if "" == "" {
- if c(showbaselevels) == "all" {

```

```

local allbaselevels allbaselevels
}
- else if c(showbaselevels) == "on" {
    local baselevels baselevels
}
-
- if "`emptycells'" == "" {
= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `"cformat(`cformat')"'
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `"sformat(`sformat')"'
}
-
- if `:length local pformat' {
= if 0 {

```

```

confirm numeric format `pformat'
if fmtwidth(```pformat''') > 5 {
    local pformat "%5.3f"
    di "{txt}note: invalid pformat(), using default"
}
sreturn local pformat ````pformat''''
local pformat ```pformat(`pformat')'''
}
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ````opts''' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> _____ end opts_exclusiv
> e _____
  - local fwrapon `word` `width'
  = local fwrapon
  - if `:length local fwrapon' {
  = if 0 {
    c_local fwrapon fwrapon(`fwrapon')
  }

> _____ end _get_diopts.Wrapo
> n _____
  - if ``fvwrap'' != "" {
  = if "" != "" {
    FVWrap, `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 diopts
  - if `K' == 2 {
  = if 2 == 2 {
  - c_local `c_opts' `""options"""
  = c_local options `"""
  - }
  - sreturn local coding `coding'
  = sreturn local coding
  - sreturn local versus `versus'
  = sreturn local versus
  - sreturn local compare `compare'
  = sreturn local compare
  - sreturn local level `level'
  = sreturn local level 95

> _____ end _get_diopts.GetDiopt
> s _____
  - c_local `name1' `""diopts"""
  = c_local diopts `"""
  - local snames : s(macros)
  - foreach sname of local snames {
  - local S_`sname' = s(`sname')
  = local S_level = s(level)
  - }
  - local S_`sname' = s(`sname')
  = local S_k = s(k)

```

```

    - }
    - local S_`sname' = s(`sname')
    = local S_k_fill = s(k_fill)
    - }
    - local S_`sname' = s(`sname')
    = local S_optlist = s(optlist)
    - }
    - local S_`sname' = s(`sname')
    = local S_namelist = s(namelist)
    - }
    - local S_`sname' = s(`sname')
    = local S_deriv = s(deriv)
    - }
    - local S_`sname' = s(`sname')
    = local S_log = s(log)
    - }
    - local S_`sname' = s(`sname')
    = local S_before = s(before)
    - }
    - local S_`sname' = s(`sname')
    = local S_after = s(after)
    - }
    - sreturn clear
    - GetDiopts DEFAULT

```

---

```

> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
        = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVRA
> P(passthru) 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 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 "`fwrap'" != "" {
= if "" != "" {
    FWrap, `fwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwrap' `fwrapon' `fvlabel' `nocI' `nopvalues' `markdown' `citype' `abb
> rev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' `""`options""'
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____

```

```

- if `""`name2""` == "" {
= if `""options""` == "" {
    GetDiopts DUPs, `options'
}
- else {
- GetDiopts DUPs options, `options'
= GetDiopts DUPs options,

```

---

```

> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Levels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) F
> VWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FWRA
> P(passthru) FWWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels` `noallbaselevels`"
= opts_exclusive " "

```

---

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""` != ""` {
= while `""` != ""` {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
    - exit

```

---

```

> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels` `nobaselevels`"
= opts_exclusive " "

```

---

```
> ----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
----- end opts_exclusiv
> e -----
    - opts_exclusive "`emptycells' `noemptycells'"
    = opts_exclusive " "
----- begin opts_exclusiv
> e -----
    - version 8.2
```

---

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``nci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts""' != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```
> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while '' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while '' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
```

```

> e -----
  - opts_exclusive "`abbrev` `noabbrev`"
  = opts_exclusive ""

> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while `"$`opts`"" != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
  }
  - if `n` < 2 {
  = if 0 < 2 {
    - exit
  }

> ----- end opts_exclusiv
> e -----
  - local allbaselevels `allbaselevels` `noallbaselevels'
  = local allbaselevels
  - local baselevels `baselevels` `nobaselevels'
  = local baselevels
  - local emptycells `emptycells` `noemptycells'
  = local emptycells
  - local omitted `omitted` `noomitted'
  = local omitted
  - local lstretch `lstretch` `nolstretch'
  = local lstretch
  - local fylabel `f ylabel` `nof ylabel'
  = local fylabel
  - local abbrev `abbrev` `noabbrev'
  = local abbrev
  - if "`allbaselevels` `baselevels`" == "" {
  = if "" == "" {
    - if c(showbaselevels) == "all" {
      local allbaselevels allbaselevels
    }
    - else if c(showbaselevels) == "on" {
      local baselevels baselevels
    }
    - }
    - if "`emptycells`" == "" {

```

```

= if "" == "" {
- if c(showemptycells) == "off" {
    local emptycells noemptycells
}
-
- if ``omitted'' == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if ``lstretch'' == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(```cformat'''') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat''''
    local cformat `"cformat(`cformat')"''
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(```sformat'''') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat''''
    local sformat `"sformat(`sformat')"''
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(```pformat'''') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat''''
    local pformat `"pformat(`pformat')"''
}

```

```

        }
- if `K' == 1 & `:length local options' {
= if 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, WOrd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `""`opts""' != ""' {
= while `""' != ""' {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit

```

---

```

> _____ end opts_exclusiv
> e _____
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')

```

```

        }



---


> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `leveLOPT' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlable' `noci' `nopvalues' `markdown' `citype' `abb
> rev'
= c_local DUPS
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' `""`options"""
= c_local options `"""
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
- c_local `name2' `""`options"""
= c_local options `"""
- }
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if `""`DUPS""' != "" {
= if `""' != "" {
    if (strpos(`""`DUPS""', "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS `""`DUPS'()""'
    }
    di as err "duplicate {bf:'DUPS'} option not allowed"
    exit 198
}
- sreturn clear
- foreach sname of local snames {

```

```

- sreturn local `sname' = `""`S_`sname"""
= sreturn local level = '"95"'
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k = '"8"'
- }
- sreturn local `sname' = `""`S_`sname"""
= sreturn local k_fill = '"8"'
- }
- 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 = '"PC AUX"'
- }
- 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 "`soptions'" != "" {
>   = if "soptions" != "" {
>       - syntax [, EForm1(passthru) EForm `EFALL' * ]
>       = syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio * ]

```

```

    - local opts `"\`options\""
    = local opts `"""
    - local 0 , `eform1` `eform` `nohr` `hr` `noshr` `shr` `or` `i
> rr` `rrr` `tr` `tratio'
    = local 0 ,
    -
    - if "`allowed'" == "__all__" {
    = if "__all__" == "__all__" {
    - local allowed `EFALL'
    = local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
    -
    - foreach ef of local allowed {
    - capture confirm name `ef'
    = capture confirm name NOHR
    - if _rc {
        di as err "`ef' is not a valid name"
        exit 198
    }
    - local efopts `efopts' `=lower("`ef``")'
    = local efopts nohr
    -
    - capture confirm name `ef'
    = capture confirm name hr
    - if _rc {
        di as err "`ef' is not a valid name"
        exit 198
    }
    - local efopts `efopts' `=lower("`ef``")'
    = local efopts nohr hr
    -
    - capture confirm name `ef'
    = capture confirm name NOSHR
    - if _rc {
        di as err "`ef' is not a valid name"
        exit 198
    }
    - local efopts `efopts' `=lower("`ef``")'
    = local efopts nohr hr noshr
    -
    - capture confirm name `ef'
    = capture confirm name shr
    - if _rc {
        di as err "`ef' is not a valid name"
        exit 198
    }
    - local efopts `efopts' `=lower("`ef``")'

```

```

= local efopts nohr hr noshr shr
- }
- capture confirm name `ef'
= capture confirm name or
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or
- }
- capture confirm name `ef'
= capture confirm name IRR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr
- }
- capture confirm name `ef'
= capture confirm name RRR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr
- }
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr
- }
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr tratio

```

```

    - }
    - local efopts : list uniq efopts
    - syntax [, EForm1(string) EForm `allowed' ]
    = syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RRR
> tr TRatio ]
    - foreach ef of local efopts {
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - local eform `eform' ``ef''
    = local eform
    - }
    - if `""`eform1""'"=="Odds ratio" {
    = if `""'"=="Odds ratio" {
        local eform_cons_ti = "Odds"
        local eform_cons_note = "odds ratios"
    }
    - else if `""`eform1""'"=="Haz. ratio" {
    = else if `""'"=="Haz. ratio" {
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    - else if `""`eform1""'"=="Time ratio" {
    = else if `""'"=="Time ratio" {
        local eform_cons_ti = "Time"

```

```

local eform_cons_note = "time ratios"
}
- else if `"`eform1`""==="IRR" {
= else if `""'==="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_tii = "incidence rate"
}
- else if `"`eform1`""==="Risk ratio" {
= else if `""'==="Risk ratio" {
    local eform_cons_ti = "Risk"
    local eform_cons_note = "risk ratios"
}
- else if `"`eform1`""==="Hlth ratio" {
= else if `""'==="Hlth ratio" {
    local eform_cons_ti = "Health"
    local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {
= if 0 {
    opts_exclusive "`eform'"
    if `:length local eform1' {
        opts_exclusive "eform() `eform'"
    }
}
- if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
    else if ("`eform'"=="tr") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="tratio") {
        local eform1 = "Time ratio"

```

```

local eform_cons_ti = "Time"
local eform_cons_note = "time ratios"
}
else if ("`eform'"=="or") {
local eform1 = "Odds ratio"
if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_t2 = "relative risk"
}
else {
local eform_cons_ti = "Odds"
local eform_cons_note = "odds ratios"
}
}
else if ("`eform'"=="irr") {
local eform1 = "IRR"
local eform_cons_ti = "Inc. rate"
local eform_cons_note = "incidence-rate ratios"
local eform_cons_t2 = "incidence rate"
}
else if ("`eform'"=="rrr") {
local eform1 = "RRR"
local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_t2 = "relative risk"
}
else if ("`eform'"!="nohr" & ("`eform'"!="noshr") {
local eform1 = upper("`eform'")
}
}
-sreturn clear
-sreturn local options `"\`opts'"
= sreturn local options `""'
-sreturn local opt `eform'
= sreturn local opt
-sreturn local str `eform1'
= sreturn local str
-if `"\`eform1'" != "" {
= if `""' != "" {
sreturn local eform eform(`"\`eform1'"')
}
- else sreturn local eform ""
-sreturn local eform_cons_ti `eform_cons_ti'
= sreturn local eform_cons_ti

```

```

- sreturn local eform_cons_note `eform_cons_note'
= sreturn local eform_cons_note
- sreturn local eform_cons_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(strin
> g asis) Level(cilevel) dof(passthru) syntaxonly ]
- if `"`dof`"" == "" & `"`e(df_r)`"" != "" {
= if `""` == "" & `""` != "" {
  capture confirm integer number `e(df_r)'
  if !c(rc) {
    local gdof dof(`e(df_r)')
  }
  capture
}
- else local gdof `"`dof`""
= else local gdof `""`
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')

```

```

= local lopt level(95)
- if (```diparm''' == "") exit
= if (`""' == "") exit


---


> _____ end _get_diparmopts.SpliceGlobal
> s _____
- local 0 `", `diparmopts''''
= local 0 `", ""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while ```diparm''' != "" {
= while `""' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm ```s(before)''''
        local after ```s(after)''''
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptio
> ns'
    local diparm`k' ```diparm''''
    local diparmopts ```diparmopts' : `diparm''''
    if `single' | ```:list retok after''' = "" {
        local 0 `", `options''''
        syntax [, diparm(string asis) * ]
    }
    else {
        local diparm ```after''''
    }
- if ```options''' = "" {
= if `""' = "" {
- syntax [, diparm(string asis) ]
- }
- if ("`execute'" = "") {
= if ("" = "") {
- sreturn clear
- sreturn local options ```options''''
= sreturn local options `"""
- sreturn local diparm ```diparmopts''''
= sreturn local diparm `"""

```

```

- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' `""`diparm`i'"""
}
- sreturn local k `k'
= sreturn local k 0
- exit


---


> _____ end _get_diparmopt
> s _____
- if "`header'"==""
= if ""==""
- _coef_table_header, `title'
= _coef_table_header,


---


> _____ begin _coef_table_head
> r _____
- version 9
- if !c(noisily) {
    exit
}
- syntax [, rclass noHeader obj(string) head1left(numlist max=
> 1 integer >=0) head1right(numlist max=1 integer >=0) head2left(numlist max=1
> integer >=0) head2right(numlist max=1 integer >=0) head2start(numlist max=1
> integer >=1) width(numlist max=1 integer >=1) * ]
- if ("`header'" != "") exit
= if ("" != "") exit
- if ("`head2start'" != "" & "`width'" != "") {
= if ("" != "" & "" != "") {
    opts_exclusive "head2start() width()"
    exit 198
}
- local has_obj = (`"`obj'"' != "")'
= local has_obj = (`""' != "")'
- if (`has_obj' == 0) {
= if (0 == 0) {
- tempname obj
}
- if ("`rclass'" != "") {
= if ("" != "") {
    tempname rhold
    _return hold `rhold'
}
- `obj' = ._coef_table_header.new, `rclass' `options'
= ._000007 = ._coef_table_header.new,
-class _coef_table_header {

```

```
-      string result          = "e"
-
-      string newline         = "display"
-
-      double opt_dvheader   = 0
-
-      double opt_modeltest   = 0
-
-      double opt_cluster     = 0
-
-      double opt_rules       = 0
-
-      double opt_tvar        = 0
-
-      double opt_septitle    = 0
-
-      double linesize        = 0
-
-      string title           = ""
-
-      string title2          = ""
-
-      string groupvar        = ""
-
-      string intmethod       = ""
-
-      double intpoints       = -1
-
-      string cmd              = ""
-
-      string cmd2             = ""
-
-      string prefix           = ""
-
-      double is_prefix         = 0
-
-      double is_svy            = 0
-
-      double is_margins        = 0
-
-      double is_gsem           = 0
-
-      double is_gsem_group     = 0
-
-      double is_sem            = 0
-
-      double is_areg           = 0
-
-      double is_demand          = 0
-
-      double is_demandn         = 0
-
-      double is_bacon          = 0
-
-      double is_htedid         = 0
-
-      double is_sum             = 0
-
-      double is_tab             = 0
-
-      double is_r2_p            = 1
-
-      double is_multclust       = 0
-
-      double is_stintcox        = 0
-
-      double is_bmareg          = 0
-
-      double prop_pushtitle     = 0
-
-      double prop_groupvar      = 0
-
-      double prop_censlimits    = 0
-
-      double prop_censored       = 0
-
-      double prop_nouncensored   = 0
-
-      double prop_isselected     = 0
-
-      double prop_selected       = 0
-
-      double prop_groups         = 0
-
-      double prop_balance        = 0
-
-      double ablen              = 16
-
-      double width              = 78
-
-      double c1                  = 1
```

```

-
-      double c2          = 16
-
-      double c2a         = 16
-
-      double c3          = 49
-
-      double c4          = 67
-
-      double c2wfmt      = 10
-
-      double c4wfmt      = 10
-
-      string scheme       = "ml"
-
-      double lalignr      = 0
-
-      double ralignr      = 0
-
-      double lalignl      = 0
-
-      double ralignl      = 0
-
-      double lalignla     = 0
-
-      double ralignla     = 0
-
-      array   left
-
-      array   right
-
-}

```

---

```

> _____ begin _coef_table_header.ne
> w _____
-
-      version 16
-
-      syntax [, rclass noDVHeader noMODELtest TItle(string asis)
> nocluster noRULES noTVAR SEPTITLE linesize(int 0) ]
-
-      if "`rclass'" != "" {
=
=      if "" != "" {
        .result = "r"
    }
-
-      if "`dvheader'" == "" {
=
=      if "" == "" {
        .opt_dvheader = 1
    }
-
-      if "`modeltest'" == "" {
=
=      if "" == "" {
        .opt_modeltest = 1
    }
-
-      if "`cluster'" == "" {
=
=      if "" == "" {
        .opt_cluster = 1
    }
-
-      if "`rules'" == "" {
=
=      if "" == "" {
        .opt_rules = 1
    }
-
-      if "`tvar'" == "" {
=
=      if "" == "" {
        .opt_tvar = 1
    }

```

```

- if "`septitle'" != "" {
= if "" != "" {
    .opt_septitle = 1
}
- .linesize = `linesize'
= .linesize = 0
- .title = ```title``'
= .title = `"""
- if ```.result``` == "e" {
= if `"e"` == "e" {
- .New4e

```

---

```

> _____ begin _coef_table_header.New4
> e _____
    - version 16
    - .cmd = ``e(cmd)``
    = .cmd = "nbreg"
    - .cmd2 = ``e(cmd2)``
    = .cmd2 = ""
    - .prefix = ``e(prefix)``
    = .prefix = ""
    - if ```.prefix``` != "" {
    = if `""` != "" {
        .is_prefix = 1
    }
    - if ```.prefix``` == "svy" {
    = if `""` == "svy" {
        .is_svy = 1
    }
    - if ```.cmd``` == "margins" {
    = if "nbreg" == "margins" {
        .is_margins = 1
    }
    - if inlist(``.cmd``", "contrast", "pwcompare") {
    = if inlist("nbreg", "contrast", "pwcompare") {
        if ```.cmd2``` == "margins" {
            .is_margins = 1
        }
    }
    - if ```.cmd``` == "gsem" | ```.cmd2``` == "gsem" {
    = if "nbreg" == "gsem" | `""` == "gsem" {
        .is_gsem = 1
    }
    - if ```.cmd``` == "sem" {
    = if "nbreg" == "sem" {
        .is_sem = 1

```

```

        }
- if "`.cmd'" == "areg" {
= if "nbreg" == "areg" {
    .is_areg = 1
}
- if ("`.cmd'" == "demandsys" & `e(doheader)'"=="yes")
> {
= if ("nbreg" == "demandsys" & `""'"=="yes") {
    .is_demand = 1
}
- if ("`.cmd'" == "demandsys") {
= if ("nbreg" == "demandsys") {
    .is_demandn = 1
}
- if ("`.cmd'" == "xthdidregress" & `e(inestat)'"=="")
= if ("nbreg" == "xthdidregress" & ""=="") {
    .is_htedid = 1
}
- if "`.cmd'" == "stintcox" {
= if "nbreg" == "stintcox" {
    .is_stintcox = 1
}
- if "`.cmd'" == "bdecomp" {
= if "nbreg" == "bdecomp" {
    .is_bacon = 1
}
- if "`.cmd'" == "bmaregress" {
= if "nbreg" == "bmaregress" {
    .is_bmareg = 1
}
- is_svysum `.`cmd'
= is_svysum nbreg

```

---

```

> _____ begin is_svysu
> m _____
- version 9
- local SvySum mean prop proportion ratio total
- if `0' != "" & `:list 0 in SvySum' {
= if `nbreg' != "" & 0 {
    return scalar is_svysum = 1
}
- else return scalar is_svysum = 0

```

---

```

> _____ end is_svysu
> m _____
- .is_sum = r(is_svysum)

```

```

- if `.`is_svy' {
= if 0 {
    if "`cmd'" == "tabulate" {
        .is_tab = 1
    }
}
- if `.`is_gsem' {
= if 0 {
    if "`e(groupvar)'" != "" & "`cmd2'" == "" {
        .is_gsem_group = 1
    }
}
- local clustvars `e(clustvar)'
= local clustvars
- local kclvar : list sizeof clustvars
- .is_multclust = ((`kclvar'>1) & ("`e(kcluster)'"=="matrix"
> x"))
= .is_multclust = ((0>1) & (""=="matrix"))
- if `.`is_multclust' {
= if 0 {
    .prop_pushtitle = 1
}
- local c2prefix 20
- if `.`is_sem' | `.`is_gsem_group' {
= if 0 | 0 {
    local crlen `"`e(crittype)`"'
    local crlen : smcllength local crlen
    if `crlen' >= `c2prefix' {
        local c2prefix = `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 = `c2prefix'
    .c3 = 49
    .c4 = 67
    .c2wfmt = 9
    .c4wfmt = 10
    .scheme = "svy"
}
- if `is_svy' {
= if 0 {
    local maxlen = `width'-`c2'-(`c2wfmt'+2)-2-(`c4'-`c
> 3')-2
        if `maxlen' > 19 {
    local maxlen 19
}
    local len : display %`maxlen'.0fc e(N_pop)
    local len : list retok len
    local len : length local len
    local ++maxlen
    local ++len
    if `c4wfmt' <= `len' & `len' <= `maxlen' {
        .c3 = `c3' + `c4wfmt' - `len'
        .c4 = `c4' + `c4wfmt' - `len'
        .c4wfmt = `len'
    }
}
}



---


> _____ end _coef_table_header.New4
> e _____
    - }
    - else {
        .New4r
    }
    - local props ```.Macro _coef_table_props```


---


> _____ begin _coef_table_header.Macr
> o _____
    - version 16
    - class exit ```.result`(`0')```
    = class exit `"""


---


> _____ end _coef_table_header.Macr
> o _____
    = local props `"""
    - if `is_sem' | `is_gsem_group' | `:list posof "pushtitle"

```

```

> in props' {
    = if 0 | 0 | 0 {
        .prop_pushtitle = 1
    }
    - if (`.is_demand'|`.is_htedid') {
    = if (0| 0) {
        .prop_pushtitle = 1
    }
    - if (`.is_bmareg') {
    = if (0) {
        .prop_pushtitle = 1
    }
    - if `.is_sem' | `.is_gsem_group' | `:list posof "groupvar"
> in props' {
    = if 0 | 0 | 0 {
        .prop_groupvar = 1
    }
    - local list tobit cpoisson ivtobit metobit xttobit
    - local list2 metobit
        - if `:list posof "`.cmd'" in list' | `:list posof "`.cmd2'"
> in list2' | `:list posof "censlimits" in props' {
    = if 0 | 0 | 0 {
        .prop_censlimits = !missing(e(N_unc))
    }
    - local list intreg tobit cpoisson ivtobit eintreg xtintreg
> xttobit
    - local list2 meintreg metobit stintreg
    - if `:list posof "`.cmd'" in list' | `:list posof "`.cmd2'"
> in list2' | `:list posof "censored" in props' {
    = if 0 | 0 | 0 {
        .prop_censored = !missing(e(N_unc))
    }
    - if `:list posof "nouncensored" in props' {
    = if 0 {
        .prop_nouncensored = 1
    }
    - local list eintreg
    - if `:list posof "`.cmd'" in list' | `:list posof "iselecte
> d" in props' {
    = if 0 | 0 {
        .prop_iselected = 1
    }
    - local list eregress eprobit eoprobit
    - if `:list posof "`.cmd'" in list' | `:list posof "selected
> " in props' {
    = if 0 | 0 {

```

```

        .prop_selected = 1
    }
- if `:list posof "groups" in props' {
= if 0 {
    .prop_groups = 1
    .groupvar = "`e(repanvar)'"
    .intmethod = "`e(reintmethod)'"
    .intpoints = e(reintpoints)
}
- local list xtreg xtprobit xtlogit xtcloglog xfrontier xti
> ntreg xtnbreg
    - local list `list' xtpoisson xttobit xtmlogit xtrc
    = local list xtreg xtprobit xtlogit xtcloglog xfrontier xti
> ntreg xtnbreg xtpoisson xttobit xtmlogit xtrc
    - local list2 xtlogit xtoprobit xtologit xtmlogit
    - if `:list posof ``.cmd'' in list' | `:list posof ``.cmd2''
> in list2' {
    = if 0 | 0 {
        .prop_groups = 1
        .groupvar = "`e(ivar)'"
        .intmethod = "`e(intmethod)'"
        .intpoints = e(n_quad)
    }
- if ``.cmd'' == "xtreg" | ``.cmd2'' == "xtlogit" {
= if "nbreg" == "xtreg" | "" == "xtlogit" {
    .is_r2_p = 0
}
- if `:list posof "balance" in props' {
= if 0 {
    .prop_balance = 1
}
- .left = {}
- .right = {}



---


> _____ end _coef_table_header.ne
> w _____
    - if ("`rclass'" != "") {
= if ("" != "") {
    _return restore `rhold'
    .`obj'.New4r
}
- if ("`head1left'" != "") {
= if ("" != "") {
    .`obj'.lalignla = `head1left'
}
- if ("`head1right'" != "") {

```

```

= if ("`" != "") {
  .`obj'.ralignla = `head1right'
}
- if ("`head2left'" != "") {
= if ("`" != "") {
  .`obj'.lalignr = `head2left'
}
- if ("`head2right'" != "") {
= if ("`" != "") {
  .`obj'.ralignr = `head2right'
}
- if ("`width'" != "") {
= if ("`" != "") {
  .`obj'.width = `width'
}
- .`obj'.build
= .__000007.build


---


> _____ begin _coef_table_header.buil
> d _____
  - version 16
  - if ``.title''' == "" {
= if ``''' == "" {
  - .title = ```.Macro title'''

---


> _____ begin _coef_table_header.Macr
> o _____
  - version 16
  - class exit ```.result(`0')'''
= class exit `Negative binomial regression'

---


> _____ end _coef_table_header.Macr
> o _____
  = .title = `Negative binomial regression'
  - .title2 = ```.Macro title2'''

---


> _____ begin _coef_table_header.Macr
> o _____
  - version 16
  - class exit ```.result(`0')'''
= class exit ``'''

---


> _____ end _coef_table_header.Macr
> o _____
  = .title2 = `'''
  - }

---



```

```

- if `.`is_areg' {
= if 0 {
    local absvar = abbrev("`e(absvar)'", 22)
    .title2 = "Absorbed variable: {res}`absvar'"
}
- if `.`prop_pushtitle' {
= if 0 {
    if `.`is_svy' & ("`.cmd'" == "clogit" | "`.cmd'" == "xtmlog
> it" | "`.cmd2'" == "xtmlogit") {
        }
        else if `.`is_stintcox' | `.`is_bmareg' {
            .PushLeft ```.title'''
            .PushLeft ```.title2'''
            .title = ""
            .title2 = ""
        }
        else {
            .PushLeft ```.title'''
            if `.`is_areg' {
                .PushLeft ```.title2'''
            }
            .title = ""
            .title2 = ""
        }
    }
- if `.`prop_groupvar' | `.`is_gsem_group' {
= if 0 | 0 {
    local groupvar ```.Macro groupvar'''
    if (```groupvar''' != "" & `.`is_stintcox') {
        local s = cond(`:word count `groupvar'>1, "s", "")
        local grpvar = abbrev(`groupvar', `ablen')
        .PushLeft "Strata variable`s': {res}`grpvar''"
    }
    else if ```groupvar''' != "" {
        local grpvar = abbrev(`groupvar', `ablen')
        .PushLeft "Grouping variable: {res}`grpvar''"
    }
}
- if `.`is_stintcox' {
= if (0) {
    .PushLeft ""
    local ndep = e(k_dv)
    if (`ndep'==2) {
        tokenize `e(depvar)'
        local ltime `1'
        local rtime `2'
    }
}

```

```

.PPushLeft "Event-time interval:"
.PPushLeft " Lower endpoint: {res}`ltime'"
.PPushLeft " Upper endpoint: {res}`rtime'"
if "`e(strata)'" != "" {
.PPushLeft ""
}
}
else {
.PPushLeft "ID variable: {res}`e(id)"
.PPushLeft "Examination time: {res}`e(depvar)"
.PPushLeft "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)) {
.PPushLeft "N. of std strata" " = " "as res" %`c2wfmt'.0fc
> `.`result'(N_stdize)
}
- .Build4tvar


---


> _____ begin _coef_table_header.Build4tva
> r _____
- version 16
- if `.`opt_tvar' == 0 {
= if 1 == 0 {
exit
}
- if ``.`Macro tvar'" == "" {


---


> _____ begin _coef_table_header.Macr
> o _____
- version 16
- class exit ``.`result`(`0')``"
= class exit `"""

```

---

```

> _____ end _coef_table_header.Macr
> o _____
= if "" == "" {
- exit
_____
> _____ end _coef_table_header.Build4tva
> r _____
- if (!missing(`.Scalar N') & `.is_demandn'==0 & !`.is_bmare
> g') {
_____
> _____ begin _coef_table_header.Scala
> r _____
- version 16
- class exit `""= `.result'(`0')"""
= class exit `"221"""
_____
> _____ end _coef_table_header.Scala
> r _____
= if (!missing(221) & 0==0 & !0) {
- .PushRight "Number of obs" " = " "as res" %`c4wfmt'.0fc `
> .Scalar N'
_____
> _____ begin _coef_table_header.Scala
> r _____
- version 16
- class exit `""= `.result'(`0')"""
= class exit `"221"""
_____
> _____ end _coef_table_header.Scala
> r _____
= .PushRight "Number of obs" " = " "as res" %10.0fc 221
_____
> _____ begin _coef_table_header.PushRigh
> t _____
- version 16
- 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.PushRight
> t _____
    - }
    - if `.`is_demandn' {
    = if 0 {
        if (e(N_estat_dsys)==.|"`e(N_estat_dsys)'""==") {
            .PushRight "Number of obs" " = " "as res" %`c4wfmt'.0fc `
> .Scalar N'
        }
        else {
            .PushRight "Number of obs" " = " "as res" %`c4wfmt'.0fc e
    > (N_estat_dsys)
        }
        }
    - if `.`is_demand' {
    = if 0 {
        .PushRight "Number of goods" " = " "as res" %`c4wfmt'.0fc
    > e(n_goods)
        .PushLeft "Expenditure variable: {result:`e(expenditures)'"
    > }"
        }
    - if `.`is_demand' {
    = if 0 {
        if (`"`e(piconstant)'"'!=") {
            .PushRight "Price index constant" " = " "as res" %`c2wfmt
    > `.4gc e(piconstant)
        .PushLeft ""
    }
    if (e(n_demo)>0) {
        local scaling = strproper("`e(demo_type)'")

```

```

    .PushLeft `"Demographic method: {text:`scaling'}```
    .PushRight "Number of demographics" " = " "as res" %`c2wf
> mt'.0fc e(n_demos)
}
.PushLeft """
local rsquare = strproper(`e(r2_type)`)
.PushLeft `"`rsquare' R2 of model for"
local kdem = e(k_eq_old) + 1
local labels `"`e(labels)`"""
forvalues i=1/`kdem' {
if (`"`labels'"'== "") {
.PushLeft " Good `i'" " = " "as res" %`c2wfmt'.4f e(r2_
> i')
}
else {
local xdm: word `i' of `labels'
.PushLeft " `xdm'" " = " "as res" %`c2wfmt'.4f e(r2_`i')
}
}
.PushLeft """
}
- if `is_bacon' {
= if 0 {
.PushLeft "ATET" " = " "as res" %`c2wfmt'.0g `e(atet)'
.PushRight "Number of groups" " = " "as res" %`c4wfmt'.0f
> c `e(N_groups)'
.PushRight "Number of cohorts" " = " "as res" %`c4wfmt'.0
> fc `e(N_timing)'
}
- if `is_bmareg' {
= if 0 {
local heredlab = proper(`e(heredity)`)
.PushLeft `e(sampling_lab)`
if `heredlab' != "" {
.PushLeft "Heredity: {txt}`heredlab'"
if !missing(e(burnin)) {
.PushLeft """
}
}
else if !missing(e(burnin)) {
.PushLeft """
.PushLeft """
}
.PushLeft """
.PushLeft "Priors:"
.PushLeft " Models: {txt}`e(mprior_lab)`"

```

```

    .PushLeft "  Cons.: Noninformative"
    .PushLeft "  Coef.: Zellner's g"
    .PushLeft "      g: {txt}`e(gprior_lab)''"
    .PushLeft "  sigma2: Noninformative"
    if !missing(e(burnin)) {
    .PushLeft
    .PushLeftRalign "{help j_bmaregress_sampcorr:Sampling corr
> elation}" " = " "as res" %`c4wfmt'.4f e(sampcorr)
    }
    .PushRight "No. of obs" " = " "as res" %`c4wfmt'.0fc `Sc
> alar N'
    .PushRight "No. of predictors" " = " "as res" %`c4wfmt'.0
> fc e(p)
    .PushRightRalign "Groups" " = " "as res" %`c4wfmt'.0fc e(
> p_groups)
    .PushRightRalign "Always" " = " "as res" %`c4wfmt'.0fc e(
> p_always)
    .PushRight "No. of models" " = " "as res" %`c4wfmt'.0fc e
> (k_models)
    .PushRightRalign "For CPMP >= .9" " = " "as res" %`c4wfmt
> '.0fc e(k_models_cpmp)
    .PushRight "Mean model size" " = " "as res" %`c4wfmt'.3f
> e(msize_mean)
    if !missing(e(burnin)) {
    .PushRight "Burn-in" " = " "as res" %`c4wfmt'.0fc e(burni
> n)
    .PushRight "MCMC sample size" " = " "as res" %`c4wfmt'.0f
> c e(mcmcsize)
    .PushRight "Acceptance rate" " = " "as res" %`c4wfmt'.4f
> e(arate)
    }
    else {
    if "`heredlab'" != "" {
    .PushRight
    }
    .PushRight
    }
    if !missing(e(shrinkage)) {
    .PushRight "Shrinkage, g/(1+g)" " = " "as res" %`c4wfmt'.
> 4f e(shrinkage)
    }
    else {
    .PushRight ""
    }
    if (e(sigma2) < 1e-3) {
    local sigfmt 8.4g

```

```

        }
        else {
            local sigfmt `c4wfmt'.3f
        }
        .PushRight "Mean sigma2" " = " "as res" %`sigfmt' e(sigma2
> )
    }
- if `is_htedid' {
= if 0 {
    .PushRight "Number of panels" " = " "as res" %`c4wfmt'.0f
> c e(N_panels)
    }
- if !missing(`Scalar N_sub') & `is_stintcox' {
    _____ begin _coef_table_header.Scala
> r _____
        - version 16
        - class exit ```=.result'(`0')``'
        = class exit ```.''
    _____ end _coef_table_header.Scala
> r _____
        = if !missing(.) & 0 {
            .PushRight "Number of subjects" " = " "as res" %`c4wfmt'.
> 0fc `Scalar N_sub'
            }
- if `is_areg' {
= if 0 {
    .PushRight "No. of categories" " = " "as res" %`c4wfmt'.0
> fc e(k_absorb)
            }
- if `is_sem' | `is_gsem_group' {
= if 0 | 0 {
    if ```Macro groupvar''' != "" {
        .PushRight "Number of groups" " = " "as res" %`c4wfmt'.0f
> c `Scalar N_groups'
            }
        }
- if `is_sem' & !`is_svy' {
= if 0 & !0 {
    .PushLeft `Estimation method: {res:`Macro method'}'
}
- if `prop_selected' {
= if 0 {
    .Build4selected
}

```

```

- if `.`is_svy' {
= if 0 {
    .BuildRight4svy
    if `.`prop_censored' {
        .PushRight
        .Build4censobs "header"
        .PushRight
    }
}
- else {
- if `.`is_margins' {
= if 0 {
    .Build4subpop
}
- if `.`prop_isselected' {
= if 0 {
    .Build4title
    .Build4isselected
}
- if `.`prop_censored' {
= if 0 {
    .Build4title
    .Build4censobs
    if `.`is_prefix' {
        .PushRight
    }
}
- .Build4cluster


---


> _____ begin _coef_table_header.Build4cluste
> r _____
- version 16
- if `.`is_multclust' {
= if 0 {
    .Build4mclust
    exit
}
- if missing(`.`Scalar N_clust') {


---


> _____ begin _coef_table_header.Scala
> r _____
- version 16
- class exit `""= `.`result'(`0')"""
= class exit `""."


---


> _____ end _coef_table_header.Scala

```

```

> r _____
= if missing(.) {
- exit
_____
> _____ end _coef_table_header.Build4cluste
> r _____
- .Build4reps
_____
> _____ begin _coef_table_header.Build4rep
> s _____
- version 16
- if !missing(`.Scalar N_reps') {
_____
> _____ begin _coef_table_header.Scala
> r _____
- version 16
- class exit `""= `.result`(`0')"""
= class exit `"."
_____
> _____ end _coef_table_header.Scala
> r _____
= if !missing(.) {
.PPushRight "Replications" " = " "as res" %`c4wfmt'.0fc
> `.Scalar N_reps'
if `.prop_censored' & !`is_svy' {
.PPushRight
}
}
_____
> _____ end _coef_table_header.Build4rep
> s _____
- }
- if `.prop_groups' {
= if 0 {
.Build4groups
}
- if `is_stintcox' & "`e(strata)'" != "" {
= if 0 & "" != "" {
if `ndep' == 2 {
.PPushRight
}
}
- .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 "6"

> _____ end _coef_table_header.Scala
> r _____
= if missing(6) {
    exit
}
- if ```.Macro chi2''' != "" | ```.Macro df_r''' == "" {

> _____ begin _coef_table_header.Macr
> o _____
- version 16
- class exit ````.result'(`0')'''
= class exit "213.7318020129071"

> _____ 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 `"213.7318020129071" != "" | ```` == "" {
    - .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("6")
    - if !missing(e(chi2)) {
        - .PushRight `type' chi2({res: `didf'})" " = " as res"
> %`c4wfmt'.2f e(chi2)
        = .PushRight "Wald chi2({res:6})" " = " as res" %10.2f
> e(chi2)

> _____ begin _coef_table_header.PushRigh
> t _____
    - version 16
    - gettokn tok rest : 0
    - gettokn eq rest : rest
    - gettokn dias rest : rest
    - if `:length local rest' {
    = if 15 {
        - local direst = ustrltrim(`: di `rest`)
        = local direst = ustrltrim(" 213.73")
        - .ralignr = max(`.ralignr', udstrlen(`direst'))
        = .ralignr = max(3, udstrlen("213.73"))
        - local len : di ```tok``
        = local len : di `Wald chi2({res:6})``
        - 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:6})}" ``.C4' " = " as res "{ralign \`.ralignr':213.73}"
      - }
      - else if `:length local tok' {
      = else if 18 {
          .right.Arrpush \`.C3' `""`tok"""
          }
      - else {
          .right.Arrpush
          }


---


> _____ end _coef_table_header.PushRigh
> t _____
      - .PushRight "Prob > chi2" " = " "as res" %`c4wfmt'.4f
> chi2tail(e(df_m),e(chi2))
      = .PushRight "Prob > chi2" " = " "as res" %10.4f chi2tai
> l(e(df_m),e(chi2))


---


> _____ begin _coef_table_header.PushRigh
> t _____
      - version 16
      - gettoken tok rest : 0
      - gettoken eq rest : rest
      - gettoken dias rest : rest
      - if `:length local rest' {
      = if 33 {
          - local direst = ustrltrim(`: di `rest'")
          = local direst = ustrltrim("    0.0000")
          - .ralignr = max(`.ralignr', udstrlen(`direst'))
          = .ralignr = max(6, udstrlen("0.0000"))
          - local len : di `""`tok"""
          = local len : di `"Prob > chi2"
          - local len : smcllength local len
          - .lalignr = max(`.lalignr', `len')
          = .lalignr = max(13, 11)
          - .right.Arrpush \`.C3' `"{lalign \`.lalignr':`tok'}"
> \`.C4' ``eq''' `dias' "{ralign \`.ralignr':`direst'}"
      = .right.Arrpush \`.C3' `"{lalign \`.lalignr':Prob > chi
> 2}"` ``.C4' " = " as res "{ralign \`.ralignr':0.0000}"
      - }
      - else if `:length local tok' {
      = else if 11 {
          .right.Arrpush \`.C3' `""`tok"""
          }
      - else {

```

```

        .right.Arppush
    }

> _____ end _coef_table_header.PushRigh
> t _____
    - }
    - else {
        local j_robust "{help j_robustsingular##|_new:`type' c
> hi2(`didf')}"
            .PushRight "`j_robust'" " = " "as res" %`c4wfmt's "."
            .PushRight "Prob > chi2" " = " "as res" %`c4wfmt's ".
> "
    }

> _____ end _coef_table_header.Build4chi2tes
> t _____
    - }
    - else {
        .Build4Ftest
    }

> _____ end _coef_table_header.Build4modeltes
> t _____
    - .Build4r2

> _____ begin _coef_table_header.Build4r
> 2 _____
    - version 16
    - if "`result'" != "e" {
    = if "e" != "e" {
        exit
    }
    - if !missing(e(r2)) {
        .PushRight "R-squared" " = " "as res" %`c4wfmt'.4f e(r2
> )
    }
    - if !missing(e(r2_p)) & `is_r2_p' {
    = if !missing(e(r2_p)) & 1 {
    - .PushRight "Pseudo R2" " = " "as res" %`c4wfmt'.4f e(r2
> _p)
    = .PushRight "Pseudo R2" " = " "as res" %10.4f e(r2_p)

> _____ begin _coef_table_header.PushRigh
> t _____
    - version 16
    - gettoken tok rest : 0

```

```

        - gettoken eq rest : rest
        - gettoken dias rest : rest
        - if `:length local rest' {
        = if 15 {
            - local direst = ustrltrim(`: di `rest'')
            = local direst = ustrltrim("    0.1148")
            - .ralignr = max(`.ralignr', udstrlen(`direst'))
            = .ralignr = max(6, udstrlen("0.1148"))
            - 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':0.1148}'
        - }
        - 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.PushLeft
> t _____
- .title = """
- if `len2' {
= if 0 {
    PushLeft `""`.title2"""
    .title2 = """
}
- }
- .opt_septitle = 1

```

---

```

> _____ end _coef_table_header.Build4titl
> e _____
- if `.`prop_censlimits' {
= if 0 {
    .Build4censlimits 1
}
- .c2 = `.`lalignl' + 1
= .c2 = 0 + 1
- .c3 = `.`width'-`.`lalignr'-`.`ralignr'-3+1
= .c3 = 78-13-6-3+1
- .c4 = `.`c3' + `.`lalignr'
= .c4 = 57 + 13
- if `.`is_gsem' {
= if 0 {
    if `.`opt_dvheader' {
        gsem_depvar_header, left(`.`left.objkey') right(`.`right.obj
> key') c3(`.`c3') c4(`.`c4') c4wfmt(`.`c4wfmt')
    }
}
- .Build4crit

```

---

```

> _____ begin _coef_table_header.Build4cri
> t _____
- version 16
- if "`result'" != "e" {
= if "e" != "e" {
    exit
}

```

```

- local offset 1
- local hascrit = !missing(```e(ll)''') & !missing(``e(cr
> ittype)'''')
= local hascrit = !missing(`"-366.6617715131994"') & !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.PushLef
> 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 "`crttype'" " = " "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("-366.66177")
    - local len : smcllength local direst
    - .ralignla = max(`.ralignla', `len')
    = .ralignla = max(0, 10)
    - local len : di ```tok``'
    = local len : di `"Log pseudolikelihood"'
    - local len : smcllength local len
    - .lalignla = max(`.lalignla', `len')
    = .lalignla = max(0, 20)
    - .left.Arrpush `\`.C1' `"{lalign \`.lalignla':`tok'}"' \
> `.C2a' ``eq'' `dias' "{ralign \`.ralignla':`direst'}"
    = .left.Arrpush `\`.C1' `"{lalign \`.lalignla':Log pseudoli
> kelihood}'' `.C2a' " = " as res "{ralign \`.ralignla':-366.66177}"
    - }
    - else if `:length local tok' {
    = else if 20 {
        .left.Arrpush `\`.C1' ```tok``'
    }
    - else {
        .left.Arrpush
    }

> _____ end _coef_table_header.PushLeftRalign
> n _____
    - }
    - }

> _____ end _coef_table_header.Build4cri
> t _____

```

```

- .c2 = `lalignl' + 1
= .c2 = 0 + 1
- .c2a = `lalignla' + 1
= .c2a = 20 + 1
- .c3 = `width'-`lalignr'-`ralignr'-3+1
= .c3 = 78-13-6-3+1
- .c4 = `c3' + `lalignr'
= .c4 = 57 + 13


---


> _____ end _coef_table_header.buil
> d _____
- if (`head2start'" != "") {
= if ("'" != "") {
. `obj'.c3 = `head2start'
. `obj'.c4 = `head2start' + `.` `obj'.lalignr'
. `obj'.width = `head2start' + `.` `obj'.lalignr' + `.` `obj'.ral
> ignr' + 2
}
- if (`has_obj' == 0) {
= if (0 == 0) {
- . `obj'.display
= .__000007.display


---


> _____ begin _coef_table_header.displa
> y _____
- version 16
- .ShowRules


---


> _____ begin _coef_table_header.ShowRule
> s _____
- version 16
- if "`result'" != "e" {
= if "e" != "e" {
exit
}
- if `opt_rules' == 0 {
= if 1 == 0 {
exit
}
- if !inlist("`cmd'", "logistic", "logit", "probit") {
= if !inlist("nbreg", "logistic", "logit", "probit") {
- exit


---


> _____ end _coef_table_header.ShowRule
> s _____
- local nl = `left.arrnels'

```

```

= local nl = 4
- local nr = `right.arrnels'
= local nr = 4
- local K = max(`nl',`nr')
= local K = max(4,4)
- `newline'
= display

- if ```.title' != "" {
= if `'' != "" {
    display as txt ```.title''
    if ```.title2' != "" {
        display as txt ```.title2''
    }
    if `K' {
        display
    }
}
- forval i = 1/`K' {
= forval i = 1/4 {
- display as smcl as txt `left[`i']' as txt `right[`i']'



---


> _____ begin _coef_table_header.C
> 1 _____
    - version 16
    - class exit `"_col(`.c1')"'
= class exit `"_col(1)"'



---


> _____ end _coef_table_header.C
> 1 _____
_____
> _____ begin _coef_table_header.C
> 3 _____
    - version 16
    - class exit `"_col(`.c3')"'
= class exit `"_col(57)"'



---


> _____ end _coef_table_header.C
> 3 _____
_____
> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"'
= class exit `"_col(70)"'



---



```

```

> _____ end _coef_table_header.C
> 4 _____
> = display as smcl as txt _col(1) ``Negative binomial regress
> ion'' as txt _col(57) `'{lalign 13:Number of obs}'' _col(70) " = " as res "{
> ralign 6:221}"
Negative binomial regression Number of obs = 221
    - }
    - display as smcl as txt `'.left[`i']' as txt `'.right[`i']'
_____
> _____ begin _coef_table_header.C
> 3 _____
> = version 16
> = class exit `"_col(`.c3')"'"
> = class exit `"_col(57)"'
_____
> _____ end _coef_table_header.C
> 3 _____
_____
> _____ begin _coef_table_header.C
> 4 _____
> = version 16
> = class exit `"_col(`.c4')"'"
> = class exit `"_col(70)"'
_____
> _____ end _coef_table_header.C
> 4 _____
> = display as smcl as txt as txt _col(57) `'{lalign 13:Wald
> chi2({res:6})}'' _col(70) " = " as res "{ralign 6:213.73}"
Wald chi2(6) = 213.73
    - }
    - display as smcl as txt `'.left[`i']' as txt `'.right[`i']'
_____
> _____ begin _coef_table_header.C
> 1 _____
> = version 16
> = class exit `"_col(`.c1')"'"
> = class exit `"_col(1)"'
_____
> _____ end _coef_table_header.C
> 1 _____
_____
> _____ begin _coef_table_header.C
> 3 _____
> = version 16
> = class exit `"_col(`.c3')"'"
> = class exit `"_col(57)"'

```

---

```

> _____ end _coef_table_header.C
> 3 _____


---


> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"`
    = class exit `"_col(70)"'


---


> _____ end _coef_table_header.C
> 4 _____
    = display as smcl as txt _col(1) `"Dispersion: {res:mean}"'
> as txt _col(57) `"{lalign 13:Prob > chi2}"' _col(70) " = " as res "{ralign 6
> :0.0000}"
Dispersion: mean                                         Prob > chi2 = 0.0000
    - }
    - display as smcl as txt `.left[`i']' as txt `.right[`i']'


---


> _____ begin _coef_table_header.C
> 1 _____
    - version 16
    - class exit `"_col(`.c1')"`
    = class exit `"_col(1)"'


---


> _____ end _coef_table_header.C
> 1 _____


---


> _____ begin _coef_table_header.C2
> a _____
    - version 16
    - class exit `"_col(`.c2a')"`
    = class exit `"_col(21)"'


---


> _____ end _coef_table_header.C2
> a _____


---


> _____ begin _coef_table_header.C
> 3 _____
    - version 16
    - class exit `"_col(`.c3')"`
    = class exit `"_col(57)"'


---


> _____ end _coef_table_header.C
> 3 _____

```

---

```

> _____ begin _coef_table_header.C
> 4 _____
    - version 16
    - class exit `"_col(`.c4')"
    = class exit `"_col(70)"

_____
> _____ end _coef_table_header.C
> 4 _____
    = display as smcl as txt _col(1) `"{lalign 20:Log pseudolike
> lihood}"' _col(21) " = " as res "{ralign 10:-366.66177}" as txt _col(57) `"{"
> lalign 13:Pseudo R2}"' _col(70) " = " as res "{ralign 6:0.1148}"
Log pseudolikelihood = -366.66177 Pseudo R2 = 0.1148
    - }

_____
> _____ 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_table
> e _____
      - version 11
      - local vv : di "version " string(max(11,_caller())) ", missing"
> 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 "nbreg"
      - local keepmc : list cmd in mc_cmds
      - if inlist("`cmd'", "pwcompare", "pwmean") {
      = if inlist("nbreg", "pwcompare", "pwmean") {
          local groups GROUPS
      }
      - if "`cmd'" == "regress" {
      = if "nbreg" == "regress" {
          local beta Beta
      }
      - if "`cmd'" == "gsem" {
      = if "nbreg" == "gsem" {
          local fvignore fvignore(int 0)
          local flignore flignore
      }
      - if "`cmd'" == "sem" {
      = if "nbreg" == "sem" {
          local standardized STANDARDIZED
          local showginvariant SHOWGINVariant
          local nolabel NOLABel LABel NOFVLABel FVLABel
          local nofootnote NOFOOTnote
          local wrap wrap(numlist max=1) fvwrap(passthru)
      }
      - if "`e(mi)'""=="mi" {

```

```

= if """=="mi" {
    local dftable DFTable
    local dfonly DFONLY
    local noclustreport NOCLUSTReport
    local pisematrix PISEMATRIX(string)
}
- syntax [, cmdextras BMATRIX(string) VMATRIX(string) EMATRIX(
> string) DFMATRIX(string) EQMATRIX(string) ROWMATRIX(string) CIMATRIX(string)
> ROWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATRIX(st
> ring) MV MATRIX(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) MV MATRIX(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
> ODI PARM NOTEST SEP arator(integer 0) NOSKIP OFFSETONLY1 PLus NOEQCHECK EFORMA
> LL CITYPE(string) eqselect(string) noEFORMNOTE * ]
        - if `wrap` != "" {
            = if "" != "" {
                opts_exclusive `wrap(`wrap') `fvwrap`"
                local fvwrap fvwrap(`wrap')
            }
            - if `nolabel` `label` != "" {
                = if "" != "" {
                    opts_exclusive `nolabel` `label`"
                    opts_exclusive `nofvlabel` `fvlable`"
                    opts_exclusive `nolabel` `fvlable`"
                    opts_exclusive `nofvlabel` `label`"
                    if `nolabel` != "" {
                        local fvlable nofvlabel
                    }
                else {
                    local fvlable fvlable

```

```

        }
    }
- else local fvlabel `nofvlabel' `fvlabel'
= else local fvlabel
- local type `coeflegend' `selegend'
= local type
- opts_exclusive "`type' `standardized'"
= opts_exclusive ""

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while `""`opts""' != ""' {
= while `""' != ""' {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit

```

---

```

> _____ end opts_exclusiv
> e _____
    - if (`""`rowmatrix""'==""' & "`norowci""'!="') {
= if (`""'==""' & ""'!="') {
        di as err "{bf:norowci} requires {bf:rowmatrix()}"
        exit 198
    }
    - if (`""`dftable""'!=""' & "`norowci""'!="') {
= if ("""!=""' & ""'!="') {
        di as err "{bf:norowci} is not allowed with {bf:`dftable'}"
        exit 198
    }
    - if (`""`dfonly""'!=""' & "`norowci""'!="') {
= if ("""!=""' & ""'!="') {
        di as err "{bf:norowci} is not allowed with {bf:`dfonly'}"
        exit 198
    }
    - if (`""`nocl""'!=""' & "`norowci""'!="') {
= if ("""!=""' & ""'!="') {
        di as err "{bf:norowci} is not allowed with {bf:`nocl'}"
        exit 198
    }

```

```

        }
      - if ``standardized'' != "" & ``bstdmatrix'' != "" {
      = if "" != "" & "" != "" {
        local beta beta
        local standardized
      }
      - if `:length local type' == 0 {
      = if 0 == 0 {
        - local type `beta' `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

```

```

        gettokent 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
    gettokent 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
    gettokent 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 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, `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` `fvlable` `noci` `nopvalues` `markdown` `cotype` `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 FWWRAP(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 FW
> 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 ``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 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' = ``$`$name``'
= sreturn local level = "95"
-
-sreturn local `sname' = ``$`$name``'
= sreturn local method = "noadjust"
-
}



---


> _____ end _get_diopt
> s _____
    - local legend coeflegend selegend
    - local legend : list legend & diopts
    - local diopts : list diopts - legend
    - local lstretch lstretch nolstretch
    - local lstretch : list lstretch & diopts
    - local diopts : list diopts - lstretch
    - local markdown markdown
    - local markdown : list markdown & diopts
    - local diopts : list diopts - markdown
    - _get_diopts ignore, `diopts' `cformat' `sformat' `pformat'
= _get_diopts ignore,


---


> _____ begin _get_diopt
> s _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
= GetDiopts diopts options,


---


> _____ begin _get_diopts.GetDiopt
> s _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]

```

```

= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE 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 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 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 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 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 DEFAULT
        - if `K' == 2 {
        = if 1 == 2 {
            c_local `c_opts' `""`options"""
        }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95

```

---

```

> _____ end _get_diopts.GetDiopt

```

```

> s _____
- if ``name2`` == "" {
= if "" == "" {
- GetDiopts DUPs, `options'
= GetDiopts DUPs,
_____
> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts`` != "" {
= while "" != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____
> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "
_____
> _____ begin opts_exclusiv

```

```
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``baselevels' `nobaselevels''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts'`` != "" {  
      = while `""` != "" {  
          local ++n  
          gettoken item`n` opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
          - exit  
  
_____  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``emptycells' `noemptycells''  
      = opts_exclusive " "  
  
_____  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'
```

```

= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``fvlable' `nofvlabel''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``cnsreport' `fullcnsreport''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``coeflegend' `selegend''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - local K : list sizeof namelist  
      - gettoken c_diopts c_opts : namelist  
      - opts_exclusive ``coding' `compare''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
      - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``versus' `compare''  
      = opts_exclusive " "  


---

  
> _____ begin opts_exclusiv  
> e _____  
      - version 8.2  
      - args opts optname errcode optslab  
      - local opts `opts'  
      = local opts  
      - local n 0  
      - while ```opts''' != "" {  
      = while `''' != "" {  
          local ++n  
          gettoken item`n' opts : opts, bind  
      }  
      - if `n' < 2 {  
      = if 0 < 2 {  
      - exit  


---

  
> _____ end opts_exclusiv  
> e _____  
      - opts_exclusive ``abbrev' `noabbrev''
```

```

= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `'''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local allbaselevels `allbaselevels' `noallbaselevels'
    = local allbaselevels
    - local baselevels `baselevels' `nobaselevels'
    = local baselevels
    - local emptycells `emptycells' `noemptycells'
    = local emptycells
    - local omitted `omitted' `noomitted'
    = local omitted
    - local lstretch `lstretch' `nolstretch'
    = local lstretch
    - local fvlabel `fvlabel' `nofvlabel'
    = local fvlabel
    - local abbrev `abbrev' `noabbrev'
    = local abbrev
    - if ``allbaselevels`` `baselevels'' == "" {
    = if "" == "" {
        - if c(showbaselevels) == "all" {
            local allbaselevels allbaselevels
        }
    - else if c(showbaselevels) == "on" {
            local baselevels baselevels
        }
    - }
    - if ``emptycells'' == "" {
    = if "" == "" {
        - if c(showemptycells) == "off" {

```

```

    local emptycells noemptycells
}
-
- if "`omitted'" == "" {
= if "" == "" {
- if c(showomitted) == "off" {
    local omitted noomitted
}
-
- if "`lstretch'" == "" {
= if "" == "" {
- if c(lstretch) == "off" {
    local lstretch nolstretch
}
-
- if `:length local cformat' {
= if 0 {
    confirm numeric format `cformat'
    if fmtwidth(``cformat'') > 9 {
        local cformat "%9.0g"
        di "{txt}note: invalid cformat(), using default"
    }
    sreturn local cformat ```cformat'''
    local cformat `cformat(`cformat')"
}
-
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(``sformat'') > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat ```sformat'''
    local sformat `sformat(`sformat')"
}
-
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(``pformat'') > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat ```pformat'''
    local pformat `pformat(`pformat')"
}
-
- if `K' == 1 & `:length local options' {

```

```

= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvrapon'
= Wrapon ,

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvrapon
= opts_exclusive " " fvrapon

```

---

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"$`opts'" != "" {
= while '""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> _____ end opts_exclusiv
> e _____
- local fvrapon `word' `width'
= local fvrapon
- if `:length local fvrapon' {
= if 0 {
    c_local fvrapon fvrapon(`fvrapon')
}

```

---

```

> _____ end _get_diopts.Wrapo
> n _____
- if ``fvwrap'' != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `a
> bbrev'
= c_local DUPs
- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts' `""`options"""
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95
_____
> _____ end _get_diopts.GetDiopt
> s _____
- }
- else {
  GetDiopts DUPs options, `options'
  c_local `name2' `""`options"""
}
- local DUPs : list DUPs - DEFAULT
- gettoken DUPs : DUPs
- if `""`DUPs""' != "" {
= if `""' != "" {
  if (strpos(`""`DUPs""', "(")) {
    gettoken DUPs : DUPs, parse("(")
    local DUPs `""`DUPs'()"'
  }
  di as err "duplicate {bf:`DUPs'} option not allowed"
  exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = `""`$_`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 tr TRatio
- if "`soptions'" != "" {
= if "options" != "" {
- syntax [, EForm1(passthru) EForm `EFALL' * ]
= syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRR
> RRr tr TRatio *
- local opts `"$`options"
= local opts `"""
- local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or'
> `irr' `rrr' `tr' `tratio'
= local 0 ,
- }
- if "`allowed'" == "__all__" {
= if "__all__" == "__all__" {
- local allowed `EFALL'
= local allowed NOHR hr NOSHR shr or IRR RRr tr TRatio
- }
- foreach ef of local allowed {
- capture confirm name `ef'
= capture confirm name NOHR
- if _rc {

```

```
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``')"
= local efopts nohr
-
- capture confirm name `ef'
= capture confirm name hr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``')"
= local efopts nohr hr
-
- capture confirm name `ef'
= capture confirm name NOSHR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``')"
= local efopts nohr hr noshr
-
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``')"
= local efopts nohr hr noshr shr
-
- capture confirm name `ef'
= capture confirm name or
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``')"
= local efopts nohr hr noshr shr or
-
- capture confirm name `ef'
= capture confirm name IRR
- if _rc {
    di as err "`ef' is not a valid name"
```

```

        exit 198
    }
- local efopts `efopts' `=lower(``ef``)`
= local efopts nohr hr noshr shr or irr
- }
- capture confirm name `ef'
= capture confirm name RRr
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr
- }
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr
- }
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
    di as err ``ef' is not a valid name"
    exit 198
}
- local efopts `efopts' `=lower(``ef``)'
= local efopts nohr hr noshr shr or irr rrr tr tratio
- }
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRR RR
> r tr TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef``
= local eform
- }
- local eform `eform' ``ef``
= local eform
- }
- local eform `eform' ``ef``
= local eform
- }

```

```

- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- if ```eform1'''=="Odds ratio" {
= if `'''=="Odds ratio" {
  local eform_cons_ti = "Odds"
  local eform_cons_note = "odds ratios"
}
- else if ```eform1'''=="Haz. ratio" {
= else if `'''=="Haz. ratio" {
  local eform_cons_ti = "Hazard"
  local eform_cons_note = "hazard ratios"
}
- else if ```eform1'''=="Time ratio" {
= else if `'''=="Time ratio" {
  local eform_cons_ti = "Time"
  local eform_cons_note = "time ratios"
}
- else if ```eform1'''=="IRR" {
= else if `'''=="IRR" {
  local eform_cons_ti = "Inc. rate"
  local eform_cons_note = "incidence-rate ratios"
  local eform_cons_ti2 = "incidence rate"
}
- else if ```eform1'''=="Risk ratio" {
= else if `'''=="Risk ratio" {
  local eform_cons_ti = "Risk"
  local eform_cons_note = "risk ratios"
}
- else if ```eform1'''=="Hlth ratio" {
= else if `'''=="Hlth ratio" {

```

```

local eform_cons_ti = "Health"
local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {
= if 0 {
    opts_exclusive "`eform'"
    if `:length local eform1' {
        opts_exclusive "eform() `eform'"
    }
}
- if `k' {
= if 0 {
    if ("`eform'"=="eform") local eform1 = "exp(b)"
    else if ("`eform'"=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if ("`eform'"=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
    else if ("`eform'"=="tr") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="tratio") {
        local eform1 = "Time ratio"
        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="or") {
        local eform1 = "Odds ratio"
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(
> cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local eform_cons_ti = "Rel. risk"
            local eform_cons_note = "relative-risk ratios"
            local eform_cons_ti2 = "relative risk"
        }
        else {
            local eform_cons_ti = "Odds"
            local eform_cons_note = "odds ratios"
        }
    }
}

```

```

}
else if ("`eform'"=="irr") {
local eform1 = "IRR"
local eform_cons_ti = "Inc. rate"
local eform_cons_note = "incidence-rate ratios"
local eform_cons_ti2 = "incidence rate"
}
else if ("`eform'"=="rrr") {
local eform1 = "RRR"
local eform_cons_ti = "Rel. risk"
local eform_cons_note = "relative-risk ratios"
local eform_cons_ti2 = "relative risk"
}
else if ("`eform'"!="nohr" & "`eform'"!="noshr") {
local eform1 = upper("`eform'")
}
}
-sreturn clear
-sreturn local options `opts'
=sreturn local options `'
-sreturn local opt `eform'
=sreturn local opt
-sreturn local str `eform1'
=sreturn local str
-if ``eform1'' != "" {
=if `'' != "" {
    sreturn local eform eform(`eform1')
}
-else sreturn local eform ""
-sreturn local eform_cons_ti `eform_cons_ti'
=sreturn local eform_cons_ti
-sreturn local eform_cons_note `eform_cons_note'
=sreturn local eform_cons_note
-sreturn local eform_cons_ti2 `eform_cons_ti2'
=sreturn local eform_cons_ti2

```

---

```

> _____ end _get_eformopt
> s _____
- local tr_item = ``s(eform_cons_note)''
= local tr_item = `'
-if inlist(`bmatrix', "", "e(b)") & ``e(k_eform)'' == "0" {
=if inlist("", "", "e(b)") & "" == "0" {
    local eform
}
-else local eform ``s(str)''
=else local eform `'

```

```

- local eform_cons_ti `"\`s(eform_cons_ti)"""
= local eform_cons_ti `"""
- local eform_cons_ti2 `"\`s(eform_cons_ti2)"""
= local eform_cons_ti2 `"""
- if ("`e(consonly)`"!="1" | `"\`eform_cons_ti`""""=="") {
= if ("0"!="1" | `""""=="") {
- local eformdi `"\`s(str)`"""
= local eformdi `"""
- }
- else {
    local eformdi `"\`eform_cons_ti`"""
    local tr_item = cond(missing(`eform_cons_ti2`), strlower(`> `eform_cons_ti`"""),
        `eform_cons_ti2`)
}
- local coefttl = cond(`"\`eform`""""=="", `"\`coeftitle`""", `"\`> eformdi`""")
= local coefttl = cond(`""""=="", `""", `""")
- local options `"\`s(options)`"""
= local options `"""
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)


---


> _____ begin _get_diparmopt
> s _____
    - if _caller() < 8.2 {
        _get_diparmopts_8 `0'
        exit
    }
    - version 9
    - local version : di "version " string(_caller()) ":""
    - syntax [, diparmopts(string asis) EXECute 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 `"""" == "" & `"""" != "" {
                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 _____
>
> 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 `""lnalpha, exp label("alpha")"""
        - }
        - while `:length local diparm' {
= while 27 {
        - gettoken diparm rest : diparm, `GTPTS'
        = gettoken diparm rest : diparm, parse(":") bind quotes
        - while `:length local rest' {
= while 0 {
            local ++k
            local diparm`k' : copy local diparm

```

```

gettolen COLON rest : rest, `GTOPTS'
gettolen diparm rest : rest, `GTOPTS'
}
- local ++k
- local diparm`k' : copy local diparm
= local diparm1 : copy local diparm
- local ++i
- local diparm `""`e(diparm`i")"""
= local diparm `"""
- }
- while `:length local diparm' {
= while 0 {
gettolen diparm rest : diparm, `GTOPTS'
while `:length local rest' {
local ++k
local diparm`k' : copy local diparm
gettolen COLON rest : rest, `GTOPTS'
gettolen 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' {
gettolen diparm rest : diparm, `GTOPTS'
while `:length local rest' {
local ++k
local diparm`k' : copy local diparm
gettolen COLON rest : rest, `GTOPTS'
gettolen 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 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 2 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
- capture syntax [, WOrd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, WOrd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'' fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

        = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
        - local fvrapon `word` `width'
        = local fvrapon
        - if `:length local fvrapon' {
        = if 0 {
            c_local fvrapon fvrapon(`fvrapon')
        }


---


> _____ end _get_diopts.Wrapo
> n _____
        - if ``fvwrap'' != "" {
        = if "" != "" {
            FVWrap, `fvwrap'
        }
        - c_local `c_diopts` `levelopt` `vsquish` `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 diopts
        - if `K' == 2 {
        = if 2 == 2 {
        - c_local `c_opts` `""`options"""
        = c_local options `"""
        - }
        - sreturn local coding `coding'
        = sreturn local coding
        - sreturn local versus `versus'
        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
        - c_local `name1` `""`diopts"""
        = c_local __000007 `"""
        - local snames : s(macros)
        - foreach sname of local snames {
        - local S_`sname' = s(`sname')
        = local S_level = s(level)

```

```

- }
- local S_`sname' = s(`sname')
= local S_k = s(k)
- }
- sreturn clear
- GetDiopts DEFAULT


---


> _____ begin _get_diopts.GetDiopt
> s _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLB
> ASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMP
> TYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FW
> RAP(passthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "


---



```

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____

```

---

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``baselevels' `nobaselevels''
= opts_exclusive " "
_____

```

---

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
_____

```

---

```
> _____ end opts_exclusiv
> e _____
- opts_exclusive ``emptycells' `noemptycells''
= opts_exclusive " "
_____

```

---

```
> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
```

```

- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``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 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 ``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 NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(st
> ring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru)
> FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru)
> NOABBREV ABBREV
  - syntax namelist(max=2) [, `DIOPTS' *]
  = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBA
> SElevels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOE
> MPTYcells EMPTYcells NO0MITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGE
> ND cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVW

```

```

> RAP(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CIT
> YPE(passthru) NOABBREV ABBREV [*]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``allbaselevels' `nobaselevels''
    = opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while `''' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - opts_exclusive ``baselevels' `nobaselevels''
    = opts_exclusive " "

```

```
> ----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`emptycells' `noemptycells'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while ```opts'`` != "" {
  = while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
    - exit
----- end opts_exclusiv
> e -----
  - opts_exclusive "`fvlabel' `nofvlabel'"
  = opts_exclusive " "
----- begin opts_exclusiv
> e -----
  - version 8.2
```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``omitted' `noomitted''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``lstretch' `nolstretch''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``noci' `nopvalues''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``versus' `compare''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv
> e _____
- opts_exclusive ``abbrev' `noabbrev''
= opts_exclusive " "


---


> _____ begin opts_exclusiv
> e _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> _____ end opts_exclusiv

```

```
> e _____  
      - local allbaselevels `allbaselevels' `noallbaselevels'  
      = local allbaselevels  
      - local baselevels `baselevels' `nobaselevels'  
      = local baselevels  
      - local emptycells `emptycells' `noemptycells'  
      = local emptycells  
      - local omitted `omitted' `noomitted'  
      = local omitted  
      - local lstretch `lstretch' `nolstretch'  
      = local lstretch  
      - local fvlabel `fvlabel' `nofvlabel'  
      = local fvlabel  
      - local abbrev `abbrev' `noabbrev'  
      = local abbrev  
      - if ``allbaselevels`` `baselevels'" == "" {  
      = if "" == "" {  
      - if c(showbaselevels) == "all" {  
          local allbaselevels allbaselevels  
        }  
      - else if c(showbaselevels) == "on" {  
          local baselevels baselevels  
        }  
      - }  
      - if ``emptycells'" == "" {  
      = if "" == "" {  
      - if c(showemptycells) == "off" {  
          local emptycells noemptycells  
        }  
      - }  
      - if ``omitted'" == "" {  
      = if "" == "" {  
      - if c(showomitted) == "off" {  
          local omitted noomitted  
        }  
      - }  
      - if ``lstretch'" == "" {  
      = if "" == "" {  
      - if c(lstretch) == "off" {  
          local lstretch nolstretch  
        }  
      - }  
      - if `:length local cformat' {  
      = if 0 {  
          confirm numeric format `cformat'  
          if fmtwidth(```cformat''') > 9 {
```

```

    local cformat "%9.0g"
    di "{txt}note: invalid cformat(), using default"
}
sreturn local cformat `"`cformat`"
local cformat `"cformat(`cformat')`"
}
- if `:length local sformat' {
= if 0 {
    confirm numeric format `sformat'
    if fmtwidth(`"`sformat`") > 8 {
        local sformat "%8.2f"
        di "{txt}note: invalid sformat(), using default"
    }
    sreturn local sformat `"`sformat`"
    local sformat `"sformat(`sformat')`"
}
- if `:length local pformat' {
= if 0 {
    confirm numeric format `pformat'
    if fmtwidth(`"`pformat`") > 5 {
        local pformat "%5.3f"
        di "{txt}note: invalid pformat(), using default"
    }
    sreturn local pformat `"`pformat`"
    local pformat `"pformat(`pformat')`"
}
- if `K' == 1 & `:length local options' {
= if 1 == 1 & 0 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wrapon , `fvwrapon'
= Wrapon ,

```

---

```

> _____ begin _get_diopts.Wrapo
> n _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon

```

```

= opts_exclusive " " fwrapon


---


> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `"`opts'"' != "" {
    = while ""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit


---


> _____ end opts_exclusiv
> e _____
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }


---


> _____ end _get_diopts.Wrapo
> n _____
    - if "`fwrap'" != "" {
    = if "" != "" {
        FWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels'
> `baselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lststretch' `
> coeflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `comp
> are' `fwrap' `fwrapon' `fvlabel' `nci' `nopvalues' `markdown' `citype' `a
> bbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' `""options"""
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'

```

```

        = sreturn local versus
        - sreturn local compare `compare'
        = sreturn local compare
        - sreturn local level `level'
        = sreturn local level 95


---


> _____ end _get_diopts.GetDiopt
> s _____
    - }
    - else {
        GetDiopts DUPs options, `options'
        c_local `name2' `""`options"""
        }
    - local DUPs : list DUPs - DEFAULT
    - gettoken DUPs : DUPs
    - if `""`DUPs"" != "" {
        = if `"" != "" {
            if (strpos(`""`DUPs""", "(")) {
                gettoken DUPs : DUPs, parse("(")
                local DUPs `""`DUPs`()""'
            }
            di as err "duplicate {bf:`DUPs'} option not allowed"
            exit 198
        }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = `""`S_`sname""'
    = sreturn local level = `""95""'
    - }
    - sreturn local `sname' = `""`S_`sname""'
    = sreturn local k = `""0""'
    - }



---


> _____ end _get_diopt
> s _____


---


> _____ begin _dipar
> m _____
    - version 11
    - if _caller() < 8.2 {
        _diparm_8 `0'
        exit
    }
    - syntax anything(name=eqs) [, Level(cilevel) NOTAB DOF(pass
> thru) BMATrix(passthru) VMATrix(passthru) DFMATrix(passthru) COEFLegend SELE
> GEND * ]

```

```

- tempname T
- if `:length local notab' {
= if 5 {
- `T' = ._b_diparm.new, level(`level') `dof' `bmatrix' `vma
> trix' `dfmatrix' `coeflegend' `selegend'
= __000008 = ._b_diparm.new, level(95)
-class _b_diparm {
- string LEVEL = ""
- double IS_MI = 0
- string BMAT = ""
- string COLNA = ""
- string VMAT = ""
- string DFMAT = ""
- string COLFUL = ""
- double DF = 0
- double DF_HOLD = 0
- double EXTRA = 1
- string METHOD = ""
- double has_b = 0
- double has_v = 0
- double has_df = 0
- double has_Cns = 0
-}

```

---

```

> _____ begin _b_diparm.ne
> w _____
- version 11
- .IS_MI = ``e(mi)''' == "mi" & ``e(df_mi)''' == "matrix"
> "
= .IS_MI = "" == "mi" & "" == "matrix"
- if `.IS_MI' {
= if 0 {
    local ALTOPT DFMATrix(string)
}
- syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VM
> ATrix(string) EXTRA(real 1) MCOMPARE(passthru) `ALTOPT' ]
= syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VM
> ATrix(string) EXTRA(real 1) MCOMPARE(passthru) ]
- _get_mcompare, `mcompare'
= _get_mcompare,

```

---

```

> _____ begin _get_mcompar
> e _____
- version 11
- local cmd ``e(cmd)'''
= local cmd `nbreg''
```

```

        - syntax [name(name=caller)] [, *]
        - local is_pwc = inlist("pwcompare", "`cmd'", "`caller'"
> ) | inlist("pwmean", "`cmd'", "`caller'")
        = local is_pwc = inlist("pwcompare", "nbreg", "") | inli
> st("pwmean", "nbreg", "")
        - local is_marg = inlist("margins", "`cmd'", "e(cmd2)"
> , "`caller'")
        = local is_marg = inlist("margins", "nbreg", "", "")
        - local OPTIONS NOADJust BONferroni DUNCan DUNNett SCHef
> fe SIDak SNK TUKey ADJustall
        - if `is_pwc' {
        = if 0 {
            syntax [name] [, `OPTIONS' MCOMPARE(string) *]
            }
        - else {
        - syntax [name] [, MCOMPARE(string) *]
        - local suboption mcompare()
        - }
        - sreturn clear
        - sreturn local options `"`options`"
        = sreturn local options `""'
        - if `is_pwc' {
        = if 0 {
            local METHOD `noadjust' `bonferroni' `duncan' `dunnett
> ' `scheffe' `sidak' `snk' `tukey'
            local METHOD : list uniq METHOD
            opts_exclusive "`METHOD'"
            local ALL `adjustall'
            opts_exclusive "`noadjust' `ALL'"
            }
        - local 0 `", `mcompare`"
        = local 0 `", ""
        - capture syntax [, `OPTIONS']
        = capture syntax [, NOADJust BONferroni DUNCan DUNNett S
> CHeffe SIDak SNK TUKey ADJustall]
        - if c(rc) {
            di as err "invalid mcompare() option;"
            di as err "method `mcompare'" not allowed"
            error 198
            }
        - local METHOD `METHOD' `noadjust' `bonferroni' `duncan'
> `dunnett' `scheffe' `sidak' `snk' `tukey'
        = local METHOD
        - local METHOD : list uniq METHOD
        - local ALL `ALL' `adjustall'
        = local ALL

```

```

- local ALL : list uniq ALL
- opts_exclusive ``METHOD'' `suboption'
= opts_exclusive "" mcompare()

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts''' != "" {
    = while "" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }

> _____ end opts_exclusiv
> e _____
    - if ``METHOD'' == "" {
    = if "" == "" {
        - if ``ALL'' != "" {
    = if "" != "" {
        di as err "multiple comparison method required with th
> e adjustall option"
        exit 198
    }
    - local METHOD noadjust
    - local noadjust noadjust
    - }
    - opts_exclusive ``ALL' `noadjust'' `suboption'
    = opts_exclusive " noadjust" mcompare()

> _____ begin opts_exclusiv
> e _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts noadjust
    - local n 0
    - while ```opts''' != "" {
    = while ``noadjust'' != "" {
        local ++n

```

```

    - gettoken item`n' opts : opts, bind
    = gettoken item1 opts : opts, bind
    - }
    - while `""`opts`"" != "" {
    = while `""` != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 1 < 2 {
    - exit

```

---

```

> _____ end opts_exclusiv
> e _____
    - local EXCLUDE duncan dunnett snk tukey
    - if `:list METHOD in EXCLUDE' {
    = if 0 {
        if `is_pwc' {
        local opt : copy local METHOD
    }
    else {
        local opt "mcompare(`METHOD')"
    }
    local cmdlist anova manova regress mvreg pwmean
    if "`cmd'" == "pwcompare" {
        local cmd `"`e(cmd_est)`""'
    }
    if `is_marg' {
        local cmd margins
    }
    if !`:list cmd in cmdlist' | !`is_pwc' {
        di as err `"method `opt' is not allowed with results f
> rom `cmd`"
        exit 322
    }
    if `"`e(prefix)`"" == "svy" {
        di as err `"method `opt' is not allowed with results u
> sing the svy prefix"
        exit 322
    }
    local vce `"`e(vce)`""'
    if !inlist("`vce'", "", "ols") {
        di as err `"method `opt' is not allowed with results u
> sing vce(`vce`)"
        exit 322
    }

```

```

        }
      - local EXCLUDE duncan dunnett snk tukey scheffe
      - if `:list METHOD in EXCLUDE' {
      = if 0 {
        if "`ALL'" != "" {
          di as err `option adjustall is not allowed with metho
> d `METHOD'''
          exit 198
        }
      }
      - sreturn local method `""`METHOD"""
      = sreturn local method `""
      - sreturn local adjustall `""`ALL"""
      = sreturn local adjustall `"""



---


> _____ end _get_mcompar
> e _____
> ak") {
      - if !inlist("`s(method)", "noadjust", "bonferroni", "sid
> ) {
      = 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:wlth y_timing_max:wg_ndx_mult y_t
> iming_max:stky_pr_rotemberg y_timing_max:wg_ndx y_timing_max:stky_pr_calvo y
> _timing_max:open y_timing_max:_cons /lnalpha"
- .has_Cns = "`e(Cns)" == "matrix"
= .has_Cns = "" == "matrix"
-
- if `:length local vmatrix' {
= if 0 {
    .has_v = 1
    .VMAT = "`vmatrix'"
}
- if `:length local dfmatrix' {
= if 0 {
    .has_df = 1
    .DFMAT = "`dfmatrix'"
}
- if `dof' <= 0 {
= if -1 <= 0 {
- local df_r 0
- Chk4PosInt df_r


---


> _____ 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(`8', "", ".") {
        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 `has_Cns' & `se' == 0 {
= if 0 & _00000C == 0 {
    matrix `C' = `Cns'[1...,`el']
    matrix `C' = `C'*`C'
    local isCns = `C'[1,1] != 0
}
-
- if `se' == 0 {
= if _00000C == 0 {
    scalar `se' =
}
-
- if "`function'" != "" {
= if "" != "" {
    .Function `b' `se' `z' "`function'" "`derivative'"
}
-
- else if "`builtin'" != "" {
= else if "exp" != "" {
- .`builtin' `b' `se' `z'
= .exp _00000B _00000C _000009

```

---

```

> _____ begin _b_diparm.ex
> p _____
- version 11
- args b se z
- return scalar est = exp(`b')
= return scalar est = exp(_00000B)
- return scalar se = return(est)*`se'
= return scalar se = return(est)*_00000C
- return scalar lb = exp(`b'-`z'*`se')
= return scalar lb = exp(_00000B-_000009*_00000C)
- return scalar ub = exp(`b'+`z'*`se')
= return scalar ub = exp(_00000B+_000009*_00000C)
- return scalar i = 0
_____
> _____ end _b_diparm.ex
> p _____
- }
- else {
if ("`prob'" != "noprob") local prob prob
    .identity `b' `se' `z' `el' "`ci'"
}
-
- else {
    .Multiple "`eqs'" `z' "`function'" "`derivative'" "`ci'"
    local isCns = r(cns)

```

```

        }
- .AddTest `df', `prob'
= .AddTest 0,


---


> _____ begin _b_diparm.AddTes
> t _____
    - version 11
    - syntax anything(name=df) [, Prob]
    - return add
    - if "`prob'" == "" {
    = if "" == "" {
    - return scalar p = .
    - return scalar z = .
    - exit


---


> _____ end _b_diparm.AddTes
> t _____
    - return add
    - if `df' == 0 {
    = if 0 == 0 {
    - return scalar df = .
    - }
    - else return scalar df = `df'
    = else return scalar df = 0
    - return scalar crit = `z'
    = return scalar crit = __000009
    - return scalar cns = `isCns'
    = return scalar cns = 0


---


> _____ end _b_diparm.comput
> e _____
    - exit


---


> _____ end _dipar
> m _____


---


> _____
|          Robust
y_timing_max | Coefficient  std. err.      z     P>|z|      [95% conf. inte
> rval] _____
|          |


---


> _____
|          wlth | -.4212714   .0988526   -4.26   0.000   -.6150189   -.2
> 27524
|          wg_ndx_mult | .6525794   .2559951   2.55   0.011   .1508382   1.1
> 54321

```

stky_pr_rotemberg	<b>-1.404362</b>	.1118435	-12.56	<b>0.000</b>	<b>-1.623571</b>	-1.1
> 85152						
wg_ndx	<b>.4007381</b>	.1002168	4.00	<b>0.000</b>	<b>.2043168</b>	.59
> 71593						
stky_pr_calvo	<b>-.9025747</b>	.1104392	-8.17	<b>0.000</b>	<b>-1.119032</b>	-.68
> 61178						
open	<b>-.2270642</b>	.113287	-2.00	<b>0.045</b>	<b>-.4491026</b>	<b>-.00</b>
> 50258						
_cons	<b>1.501541</b>	.1018782	14.74	<b>0.000</b>	<b>1.301864</b>	<b>1.7</b>
> 01219						
> _____						
/lnalpha	<b>-2.565493</b>	.7832013			<b>-4.100539</b>	<b>-1.0</b>
> 30446						
> _____						
alpha	<b>.0768813</b>	.0602135			<b>.0165637</b>	<b>.35</b>
> 68476						
> _____						
- 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 (`eformmdi'!="'" & `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 = 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 _____
- 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 wlth wg_ndx_mul
> stky_pr_rotemberg wg_ndx stky_pr_calvo open if y_timing_max<60 , vce(r
> )""'



---


> _____ end nbre

```

```
> g _____  
- log close  
  name: <unnamed>  
  log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo  
> fChicago/mmb/output/stepwise_regressions/y_timing_max_frics_det.smcl  
log type: smcl  
closed on: 9 May 2025, 13:21:32
```

---