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```

    name: <unnamed>
    log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/piq_timing_max_frics_sim.smcl
    log type: smcl
    opened on: 8 May 2025, 20:06:09
- capture ! rm ./output/stepwise_regressions/`depvar'`type'.pdf
= capture ! rm ./output/stepwise_regressions/piq_timing_max_frics_sim.pdf
- di "*****"
> *****"
*****
> **
- di "Outcomes of bi-directional stepwise regressions with `depvar' with rule
> fixed effects"
= di "Outcomes of bi-directional stepwise regressions with piq_timing_max with
> rule fixed effects"
Outcomes of bi-directional stepwise regressions with piq_timing_max with rule
> fixed effects
- di "Independent Variable set: `type'"
= di "Independent Variable set: frics_sim"
Independent Variable set: frics_sim
- di "*****"
> *****"
*****
> **
- ${reg_`depvar'`type'}
= nbreg piq_timing_max wlt h stky_pr_rottemberg stky_pr_calvo wg_ndx open ot
> her_channel bnkcrdit stky_wg if piq_timing_max<60 , vce(r)

> ----- begin nbreg -----
- if _by() {
    local BY "`by' `_byvars' `_byrc0':"
}
- `BY' _vce_parserun nbreg, mark(Exposure OFFset CLuster) : `0'
= _vce_parserun nbreg, mark(Exposure OFFset CLuster) : piq_timing_max wlt
> th stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_
> wg if piq_timing_max<60 , vce(r)

> ----- begin _vce_parserun -----
- version 9
- local version : di "version " string(_caller()) ":"
- local bycall = _by()
- _on_colon_parse `0'
= _on_colon_parse nbreg, mark(Exposure OFFset CLuster) : piq_timing_max
> wlt h stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit st
> ky_wg if piq_timing_max<60 , vce(r)

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> begin _on_colon_parse
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quotes
- if "`par'" != "" {
= if "" != "" {
    local before "`('before)'"
  }
- if ``"before"' == ":" {
= if ``nbreg, mark(Exposure OFFset CLuster) "' == ":" {
    sreturn local after ``"after"'
    exit
  }
- while ``"COLON"' != ":" & ``"after"' != "" {
= while ``"' != ":" & ``": piq_timing_max    wlth stky_pr_rotemberg stky
> _pr_calvo wg_ndx open other_channel bnkcrdit stky_wg  if piq_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 ``":'" != ":" & ``" piq_timing_max    wlth stky_pr_rotemberg stky
> _pr_calvo wg_ndx open other_channel bnkcrdit stky_wg  if piq_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
    }
  }
- if ``"COLON"' != ":" {

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= if `:"" != ":" {
  di as err "" found where ':' expected"
  exit 198
}
- sreturn local before ``before''
= sreturn local before ``nbreg, mark(Exposure OFFset CLuster) ''
- sreturn local after ``after''
= sreturn local after `` piq_timing_max    wlth  stky_pr_rotemberg stky_
> pr_calvo wg_ndx open other_channel bnkcrdit stky_wg  if piq_timing_max<60 ,
> vce(r)''

-----
> ----- end _on_colon_parse -----
- local ZERO ``s(before)''
= local ZERO ``nbreg, mark(Exposure OFFset CLuster) ''
- local 0 ``s(after)''
= local 0 `` piq_timing_max    wlth  stky_pr_rotemberg stky_pr_calvo wg_nd
> x open other_channel bnkcrdit stky_wg  if piq_timing_max<60 , vce(r)''
- quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(string
> asis) VCE1(string asis) LRMODEL * ]
- if ``vce'' == "" {
= if ``r'' == "" {
  MYRESULT
  exit
}
- local AFTER ``0''
= local AFTER `` piq_timing_max    wlth  stky_pr_rotemberg stky_pr_calvo w
> g_ndx open other_channel bnkcrdit stky_wg  if piq_timing_max<60 , vce(r)''
- local 0 ``ZERO''
= local 0 ``nbreg, mark(Exposure OFFset CLuster) ''
- syntax name(name=caller id="calling command name") [, WTYPES(string) NOB
> OOTstrap NOJACKknife NOOTHERvce NOTEST PANELdata STdata bootopts(string asis
> ) jkopts(string asis) robustok multivce REQUIREDopts(namelist) NOEQLIST EQop
> ts(passthru) EQARGopts(passthru) noNEEDVARLIST COMMONopts(namelist) MARKopts
> (passthru) SMARKopts(passthru) RMCOLLopts(passthru) RMDCOLLopts(passthru) NU
> MDEPvars(passthru) NEEDEQUAL ALLDEPSMISSing PAREntheses UNPARFIRSTeq OR EQUA
> L UNEQUALFIRSTeq IGNORENOCONS ]
- if ``requiredopts'' != "" {
= if ``'' != "" {
  tempname reqopts
  .`reqopts' = . _optlist.new
  foreach req of local requiredopts {
    .`reqopts'.addopt `req', passthru
  }
}
- if ``wtypes'' == "" {
= if "" == "" {

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- 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' & `:list
> ecmd in typelist' {
    `ecmd' `0'
    MYRESULT exit
    }
    MYRESULT
    exit
    }
- gettoken svy typelist : typelist
- if "`reqopts'" != "" {
= if "" != "" {
    local REQOPTLIST ``'.`reqopts'.dumpoptions'
    local REQOPTNAMES ``'.`reqopts'.dumpnames'
    }
- local 0 ``AFTER'
= local 0 `` piq_timing_max    wlth  stky_pr_rotemberg stky_pr_calvo wg_nd
> x open other_channel bnkcredit stky_wg  if piq_timing_max<60 , vce(r)'
- quietly syntax [anything(equalok)] [if/] [in] [`wtypes'] [, VCE(string a
> sis) VCE1(string asis) Robust NODOTS `panelopt' `stopt' `REQOPTLIST' * ]
= quietly syntax [anything(equalok)] [if/] [in] [fw aw pw iw] [, VCE(strin
> g asis) VCE1(string asis) Robust NODOTS      * ]
- if `:list vce == vce1' {
= if 0 {
    local vce1
    }
- if ``vce1' != "" & ``multivce' == "" {
= if ``' != "" & "" == "" {
    di as err "option vce() specified multiple times"

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

```

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> ----- begin _vce_parserun.unabVCetype -----
- syntax [, B00Tstrap BStrap JACKknife JACKNife JKnife Robust * ]
- if "`bstrap'" != "" {
= if "" != "" {
    local bootstrap bootstrap
  }
- if "`jknife'" != "" | "`jackknife'" != "" {
= if "" != "" | "" != "" {
    local jackknife jackknife
  }
- local vcetype ``"jackknife' `bootstrap' `robust' `options'"
= local vcetype ``robust'"
- sreturn local vcetype ``":list retok vcetype'"
= sreturn local vcetype ``robust'"

```

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> ----- end _vce_parserun.unabVCetype -----
- if c(rc) {
    di as err "invalid vce() option"

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    exit c(rc)
  }
  - local vcetype `s(vcetype)'
= local vcetype robust
  - if "`lrmodel'"!="" {
= if ""!="" {
    _check_lrmodel `caller', vcetype(`vcetype')
  }
  - if "`vce1'"!="" & "`multivce'"!="" {
= if `""' != "" & "" != "" {
    gettoken uvceltype vcelopts : vce1, parse(" ,")
    capture unabVCEtype, `uvceltype'
    if c(rc) {
      di as err "invalid vce() option"
      exit c(rc)
    }
    local vceltype `s(vcetype)'
    if `:list vceltype in typelist' | `:list vcetype in typelist' {
      di as err "options vce(`vce') and vce(`vce1') cannot be combined"
      exit 198
    }
    MYRESULT
    exit
  }
  - if _caller() >= 17 {
  - if "`vcetype'" == "cluster" {
= if "robust" == "cluster" {
    gettoken vceopts vcelopts: vceopts, parse(",")
    if `:list sizeof vceopts' > 1 {
      local typelist "`typelist' cluster_multiway"
      local vcetype cluster_multiway
      if `:list sizeof vcelopts' > 0 {
        gettoken comma vcelopts: vcelopts, parse(",")
        local vcelopts: list retokenize vcelopts
        di as err "{p}VCE option " "{bf:`vcelopts'} not allowed{p_end}"
        exit 198
      }
      if ("`cluster'"=="") & ("`noeqlist'"=="") {
        if "`caller'" == "regress" {
          Noc2Noconstant `opts'
          local opts ``s(opts)''
        }
        local opts ``opts' cluster(`vceopts)''
      }
    }
  }
}
}
}

```

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

> ----- begin _vce_parserun.MYRESULT -----
- args exit
- sreturn local exit ``exit'''
= sreturn local exit `'''

> ----- end _vce_parserun.MYRESULT -----
- exit

> ----- end _vce_parserun -----
- 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 piq_timing_max    wlth    stky_pr_rottemberg stky_pr_ca
> lvo wg_ndx open other_channel bnkcredit stky_wg    if piq_timing_max<60 , vce(r
> )

> ----- begin nbreg.Estimate -----
- local vvpoui : di "version " string(_caller()) ", missing:"
- if _caller() >= 11 {
- local vv : di "version " string(_caller()) ":"
- local mm e2
- local negh negh
- }

```

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- 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(s
> tring) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeric ts
> ) noCONstant Robust CLuster(varname) SCore(string) NOLOg LOg noDISPLAY noLRt
> est 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) noCON
> stant Robust CLuster(varname) SCore(string) NOLOg LOg noDISPLAY noLRtest Dis
> version(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,

```

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```

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

```

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```

> ----- begin _get_diopts.GetDiopts -----
  - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevels NO
> BASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells NOOM
> ITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sforma
> t(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAPON(st
> ring) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBREV AB
> BREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels ALL
> BASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EM
> PTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(s
> tring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru
> ) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru
> ) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"

```



```

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

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

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

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

---

```

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

```

```

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

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`abbrev' `noabbrev'"

```

```

= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- 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.Wrapon -----
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

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

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

> ----- end _get_diopts.Wrapon -----
    - 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' `compare' `fvwrap
> ' `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.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevels NO
> BASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells NOOM
> ITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sforma
> t(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAPON(st
> ring) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBREV AB
> BREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels ALL
> BASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EM
> PTYcells NOOMITTED OMITTED NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(s
> tring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru
> ) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru
> ) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels'''
= opts_exclusive " "

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells` `noemptycells`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel` `nofvlabel`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

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

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

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

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

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

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

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

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

> ----- end _get_diopts.Wrapon -----
- 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' `compare' `fvwrap
> ' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' ``options''
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95

```

---

```

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

```

---

```

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevels NO
> BASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells NOOM
> ITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string) sforma
> t(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRAPON(st
> ring) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABBREV AB
> BREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASElevels ALL
> BASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EM
> PTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(s
> tring) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru
> ) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru
> ) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```

```

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

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

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

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

```

```

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

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive ""`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

> 

---

 end opts\_exclusive 

---

```

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

```

---

```

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

```

---

```

> ----- end _get_diopts.Wrapon -----
- 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' `compare' `fvwrap
> ' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
= c_local DUPS

```

```

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

> ----- end _get_diopts -----
- 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_diopts -----
- mlopts mlopts, `options' `log' `nolog'
= mlopts mlopts,

> ----- begin mlopts -----
- version 8.0
- local maxoptlist MLOPTs(string) TRace TRACEDiffs GRADient HESSian SHOW
> STEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance(real
> -1) NONRTOLerance SHOWNRTolerance SHOWTOLerance NRTOLerance(real -1) QTOLera
> nce(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTes COLLinear
> TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCONCAVE(

```

```

> passthru) USEVIEWS NOLOg LOg nrderiv
    - syntax namelist(id="macro names" min=1 max=2) [, `maxoptlist' * ]
    = syntax namelist(id="macro names" min=1 max=2) [, MLOPTs(string) TRace
> TRACEDIffs GRADient HESSian SHOWSTEP ITERate(int -1) TOLerance(real -1) LTOL
> erance(real -1) GTOLerance(real -1) NONRTOLerance SHOWNRtolerance SHOWTOLera
> nce NRTOLerance(real -1) QTOLerance(real -1) DIFFicult HALFSTEPonly CONSTrai
> nts(string) noCNSNOTes COLlinear TECHnique(passthru) VCE(passthru) DOTS deps
> ilon(passthru) SHOWH NOTCONCAVE(passthru) USEVIEWS NOLOg LOg nrderiv * ]
    - gettoken dest rest : namelist
    - if "`rest'" == "" {
    = if "" == "" {
    - syntax namelist [, `maxoptlist' ]
    = syntax namelist [, MLOPTs(string) TRace TRACEDIffs GRADient HESSian SH
> OWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance(rea
> l -1) NONRTOLerance SHOWNRtolerance SHOWTOLerance NRTOLerance(real -1) QTOLe
> rance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTes COLline
> ar TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCONCAV
> E(passthru) USEVIEWS NOLOg LOg nrderiv ]
    - }
    - local mlopts `mlopts' `trace' `tracediffs' `gradient' `hessian' `shows
> tep' `difficult' `halfsteponly' `nonrtolerance' `shownrtolerance' `showtoler
> ance' `dots' `depsilon' `showh' `notconcave' `useviews' `log' `nolog' `nrder
> iv'
    = 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' `cn
> snotes' `collinear' `technique' `vce' `qtol'
    = c_local mlopts
    - if "`rest'" != "" {
= if "" != "" {
    c_local `rest' ``options'"
}



---


> 

---

 end mlopts 

---


    - local coll `s(collinear)'
= local coll
    - local cns `s(constraints)'
= local cns
    - local mlopts `mlopts' `critttype'
= local mlopts
    - Dispers , `dispers'
= Dispers ,

```

```

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

> ----- end nbreg.Dispers -----
- 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 " "tw
> o new variables"
    exit 198
  }
  local scname1 : word 1 of `score'
  local scname2 : word 2 of `score'
  tempvar scvar1 scvar2
  local scopt "score(`scvar1' `scvar2')"
}
- if "`offset'"!=" " & "`exposur'"!=" " {
= if ""!=" " & ""!=" " {
  version 7: di as err "options {bf:offset()} and {bf:exposure()} may not

```

```

> be specified together"
    exit 198
  }
  - if "`constan'"!="" {
= if ""!="" {
    local nvar : word count `varlist'
    if `nvar' == 1 {
      version 7: di as err "independent variables required with " "option {bf:
> noconstant}"
      exit 102
    }
  }
  - marksample touse
  - if ``cluster'"!="" {
= if `""'!="" {
    local clopt cluster(`cluster')
  }
  - _vce_parse, argopt(Cluster) opt(Robust oim opg) old: [`weight'`exp'], `v
> ce' `clopt' `robust'
    = _vce_parse, argopt(Cluster) opt(Robust oim opg) old: [], vce(r)
  }
}

> ----- begin _vce_parse -----
  - version 10
  - _on_colon_parse `0'
  = _on_colon_parse , argopt(Cluster) opt(Robust oim opg) old: [], vce(r)
>
  }
}

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

```

```

        local before `before' (`COLON')
        local COLON
    }
- else if `"'COLON'" != ":" {
= else if `":'" != ":" {
    local before `"'before' `COLON'"
    local COLON
    }
- }
- while `"'COLON'" != ":" & `"'after'" != "" {
= while `":'" != ":" & `"' [], vce(r) "" != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if "`par'" != "" {
        local before `before' (`COLON')
        local COLON
    }
    else if `"'COLON'" != ":" {
        local before `"'before' `COLON'"
        local COLON
    }
}
- if `"'COLON'" != ":" {
= if `":'" != ":" {
    di as err "" found where ':' expected"
    exit 198
}
- sreturn local before `"'before'"
= sreturn local before `"', argopt(CLister) opt(Robust oim opg) old""
- sreturn local after `"'after'"
= sreturn local after `"' [], vce(r) ""
}

> ----- end _on_colon_parse -----

- local 0 `"'s(before)'"
= local 0 `"', argopt(CLister) opt(Robust oim opg) old""
- local user `"'s(after)'"
= local user `"' [], vce(r) ""
- syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist(namelis
> t) 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.addopt _____
- 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.addopt _____
- }
- .`o'.addopt `name'
= .__000001.addopt oim
_____
> _____ begin _optlist.addopt _____
- 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.addopt _____
- }
- .`o'.addopt `name'
= .__000001.addopt opg
_____
> _____ begin _optlist.addopt _____

```

```

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

```

---

```

> ----- begin _optlist.addopt -----
- 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.addopt -----
- }
- local OPTNAMES ```.`o'.dumpnames'''

```

---

```

> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= 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.dumpnames -----
= local OPTNAMES "robust oim opg"
- local ARGOPTNAMES ```.a'.dumpnames'''

```

---

```

> ----- begin _optlist.dumpnames -----
- 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.dumpnames -----
= 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(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.ParseVCE -----
- gettoken 0 0 : 0, parse(" ,")
- gettoken A 0 : 0, parse(" ,")
- local OPTSPECS ```.`0'.dumpoptions' `.`A'.dumpoptions'''

```

---

```

> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= 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.dumpoptions -----
> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/1 {
- local optlist `optlist' `.options[`i']'
= local optlist CCluster
- }
- local optlist : list uniq optlist
- sreturn local optlist ``optlist'''
= sreturn local optlist `CCluster''
- class exit ``optlist'''
= class exit `CCluster''
> ----- end _optlist.dumpoptions -----
= local OPTSPECS `Robust oim opg CCluster''
- local OPTNAMES ```. `0'.dumpnames' `.`A'.dumpnames'''
> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= 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.dumpnames -----
> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/1 {
- local namelist `namelist' `.names[`i']'
= local namelist cluster

```

```

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

```

---

```

> ----- end _optlist.dumpnames -----
= 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.ParseVCE -----
- 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", "clus
> ter") {
= if ``''' != "" & !inlist("robust", "", "robust", "eim", "oim", "cluster") {
opts_exclusive "`robust' vce(`name')"
}
- if "`name'" == "cluster" {
= if "robust" == "cluster" {
if ``args''' == "" {
di as err "invalid vce(cluster) option"
exit 198
}
confirm var `args'
unab args : `args'

```

```

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

```

```

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

```

---

```

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

```



```

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

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

> ----- end tsunab -----
- local yname : subinstr local y "." "_"
- if "`weight'"!=" {
= if ""!=" {
  if "`weight'"=="fweight" {
    local wt `[fw`exp']'
  }
  else local wt `[aw`exp']'
}
- summarize `y' `wt' if `touse', meanonly
= summarize piq_timing_max if __000000, meanonly
- if r(N) == 0 { error 2000 }
- if r(N) == 1 { error 2001 }
- if r(min) < 0 {
  version 7: di as err "{bf:`y'} must be greater than or equal to zero"
  exit 459
}
- if r(min) == r(max) & r(min) == 0 {

```

```

        version 7: di as err "{bf:`y'}` is zero for all observations"
        exit 498
    }
    - tempname mean
    - scalar `mean' = r(mean)
    = scalar __000001 = r(mean)
    - if "`display'"==" " {
    = if ""==" " {
    - capture assert `y' == int(`y') if `touse'
    = capture assert piq_timing_max == int(piq_timing_max) if __000000
    - if _rc {
        di in gr "note: you are responsible for " "interpretation of non-count d
> ep. variable"
    }
    - }
    - if "`display'"==" " & "`weight'"=="aweight" {
    = if ""==" " & ""=="aweight" {
        di in gr "note: you are responsible for interpretation " "of analytic we
> ights"
    }
    - 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 stky_pr_rottemberg stky_pr_calvo wg_ndx op
> en other_channel bnkcrdit stky_wg [] if __000000,
    - local xvars `r(varlist)'
    = local xvars wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_chann
> el bnkcrdit stky_wg
    - _parse_iterlog, `log' `nolog'
    = _parse_iterlog,

```

---

```

> ----- begin _parse_iterlog -----
    - 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_iterlog -----
- 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 `offop
> t' `constan' `mlopts' `robust'
= version 18, missing: poisson piq_timing_max wlth stky_pr_rottemberg stky_
> pr_calvo wg_ndx open other_channel bnkcrdit stky_wg [] if __000000, nodispla
> y robust

```

---

```

> ----- begin poisson -----
- if _by() {
  local BY ``by' `_byvars' `_byrc0':''
  }
- `BY' _vce_parserun poisson, mark(Exposure OFFset CLuster) : `0'
= _vce_parserun poisson, mark(Exposure OFFset CLuster) : piq_timing_max
> wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stk
> y_wg [] if __000000, nodisplay robust

```

---

```

> ----- begin _vce_parserun -----
- version 9
- local version : di "version " string(_caller()) ":"
- local bycall = _by()
- _on_colon_parse `0'

```

```

    = _on_colon_parse poisson, mark(Exposure OFFset CLuster) : piq_timing_
> max wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit
> stky_wg [] if __000000, nodisplay    robust

```

---

```

> ----- begin _on_colon_parse -----
    - version 8.2
    - sreturn local before ""
    - sreturn local after ""
    - gettoken before after : 0, parse(":") bind match(par) quotes
    - if "`par'" != "" {
= if "" != "" {
    local before `("`before')"'
    }
    - if ``"before"' == ":" {
= if ``poisson, mark(Exposure OFFset CLuster) "' == ":" {
    sreturn local after ``"after"'
    exit
    }
    - while ``"COLON"' != ":" & ``"after"' != "" {
= while ``"' != ":" & `": piq_timing_max wlth stky_pr_rottemberg stky
> _pr_calvo wg_ndx open other_channel bnkcrdit stky_wg [] if __000000, nodispl
> ay    robust"' != "" {
    - gettoken COLON after : after, parse(":") bind match(par) quotes
    - if "`par'" != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
    }
    - else if ``"COLON"' != ":" {
= else if `":' != ":" {
    local before ``"before' `COLON"'
    local COLON
    }
    - }
    - while ``"COLON"' != ":" & ``"after"' != "" {
= while `":' != ":" & `": piq_timing_max wlth stky_pr_rottemberg stky
> _pr_calvo wg_ndx open other_channel bnkcrdit stky_wg [] if __000000, nodispl
> ay    robust"' != "" {
    gettoken COLON after : after, parse(":") bind match(par) quotes
    if "`par'" != "" {
    local before `before' (`COLON')
    local COLON
    }
    else if ``"COLON"' != ":" {
    local before ``"before' `COLON"'
    local COLON

```

```

    }
    }
    - if ``COLON''' != ":" {
    = if `":' != ":" {
        di as err "' found where ':' expected"
        exit 198
    }
    - sreturn local before ``before'''
    = sreturn local before `poisson, mark(Exposure OFFset CLuster) "'
    - sreturn local after ``after'''
    = sreturn local after `piq_timing_max wlth stky_pr_rotemberg stky_
> pr_calvo wg_ndx open other_channel bnkcrdit stky_wg [] if __000000, nodispla
> y robust'''

----- end _on_colon_parse -----
>
    - local ZERO ``s(before)'''
    = local ZERO `poisson, mark(Exposure OFFset CLuster) "'
    - local 0 ``s(after)'''
    = local 0 `piq_timing_max wlth stky_pr_rotemberg stky_pr_calvo wg_nd
> x open other_channel bnkcrdit stky_wg [] if __000000, nodisplay robust'''
    - quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(st
> ring asis) VCE1(string asis) LRMODEL * ]
    - if ``vce''' == "" {
    = if `''' == "" {
    - MYRESULT

-----
> ----- begin _vce_parserun.MYRESULT -----
    - args exit
    - sreturn local exit ``exit'''
    = sreturn local exit `'''

-----
> ----- end _vce_parserun.MYRESULT -----
    - exit

-----
> ----- end _vce_parserun -----
    - if ``s(exit)'' != "" {
    = if "" != "" {
        version 10: ereturn local cmdline `poisson `0'''
        exit
    }
    - version 6, missing
    - local version : di "version " string(_caller()) ":"
    - if replay() {
        if ``e(cmd)'' != "poisson" {
            error 301
        }
    }

```

```

    if _by() { error(190) }
    Display `0'
    error `e(rc)'
    exit
  }
  - `version' `BY' Estimate `0'
  = version 18: Estimate piq_timing_max wlth stky_pr_rottemberg stky_pr_ca
> lvo wg_ndx open other_channel bnkcrdit stky_wg [] if __000000, nodisplay
> robust

> ----- begin poisson.Estimate -----
  - 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 FR
> OM(string) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeri
> c ts) noCONstant Robust CLuster(varname) SCore(string) noDISPLAY CRITTYPE(pa
> ss thru) MATAevaluator moptobj(passthru) * ]
    = syntax varlist(numeric fv ts) [fw pw iw] [if] [in] [, IRr FROM(stri
> ng) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeric ts) n
> oCONstant Robust CLuster(varname) SCore(string) noDISPLAY CRITTYPE(passthru)
> 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_diopts -----
  - version 11
  - syntax namelist(max=2) [, *]
  - gettoken name1 namelist : namelist

```

```

- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options,

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

---

```

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

```



```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`versus' `compare'"

```

```

= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- 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.Wrapon -----
  - capture syntax [, W0rd WIdth]
  - if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd WIdth]
    exit 198
  }
  - opts_exclusive ``word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

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

```

```

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

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

    - 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' `noci' `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.GetDiopts -----

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

```

---

```

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

```

---

```

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

```



```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells` `noemptycells`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

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

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

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

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

```

---

```

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

```

```

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


---


> 

---

 end opts_exclusive 

---


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


---


> 

---

 end _get_diopts.Wrapon 

---


    - 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 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.GetDiopts 

---


    - if ``name2'' == "" {
    = if ``options'' == "" {
        GetDiopts DUPS, `options'
    }
    - else {
    - GetDiopts DUPS options, `options'
    = GetDiopts DUPS options,
}


---


> 

---

 begin _get_diopts.GetDiopts 

---



```



```

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

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

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

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

```

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

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

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

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

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

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

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

```

```

- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```

---

```

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

```



```

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

> ----- end _get_diopts.Wrapon -----
- 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 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.GetDiopts -----
- 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_diopts -----

    - mlopts mlopts, `options'
    = mlopts mlopts,

> ----- begin mlopts -----

    - version 8.0
    - local maxoptlist MLOPTs(string) TRace TRACEDiffs GRADient HESSian
> SHOWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance(r
> eal -1) NONRTOLerance SHOWNRtolerance SHOWTOLerance NRTOLerance(real -1) QTOL
> erance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTes COLli
> near TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCONC
> AVE(passthru) USEVIEWS NOLOg LOg nrderiv
        - syntax namelist(id="macro names" min=1 max=2) [, `maxoptlist' * ]
        = syntax namelist(id="macro names" min=1 max=2) [, MLOPTs(string) TR
> ace TRACEDiffs GRADient HESSian SHOWSTEP ITERate(int -1) TOLerance(real -1)
> LTOLerance(real -1) GTOLerance(real -1) NONRTOLerance SHOWNRtolerance SHOWTOL
> erance NRTOLerance(real -1) QTOLerance(real -1) DIFFicult HALFSTEPonly CONS
> Traints(string) noCNSNOTes COLlinear TECHnique(passthru) VCE(passthru) DOTS
> depsilon(passthru) SHOWH NOTCONCAVE(passthru) USEVIEWS NOLOg LOg nrderiv * ]
        - gettoken dest rest : namelist
        - if "`rest'" == "" {
        = if "" == "" {
        - syntax namelist [, `maxoptlist' ]
        = syntax namelist [, MLOPTs(string) TRace TRACEDiffs GRADient HESSia
> n SHOWSTEP ITERate(int -1) TOLerance(real -1) LTOLerance(real -1) GTOLerance
> (real -1) NONRTOLerance SHOWNRtolerance SHOWTOLerance NRTOLerance(real -1) Q
> TOLerance(real -1) DIFFicult HALFSTEPonly CONSTraints(string) noCNSNOTes COL
> linear TECHnique(passthru) VCE(passthru) DOTS depsilon(passthru) SHOWH NOTCO
> NCAVE(passthru) USEVIEWS NOLOg LOg nrderiv ]
        - }
        - local mlopts `mlopts' `trace' `tracediffs' `gradient' `hessian' `s
> howstep' `difficult' `halfsteponly' `nonrtolerance' `shownrtolerance' `showt
> olerance' `dots' `depsilon' `showh' `notconcave' `useviews' `log' `nolog' `n
> rderiv'

    = 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 mlopts
- 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 variable"
  }
}
> "
  exit 198
}
tempvar scvar
local scopt 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"
    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 piq_timing_max
- tsunab y : `y'
= tsunab y : piq_timing_max
```

---

```

> ----- begin tsunab -----

- 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 3
> 2000) NAME(string)]
- c_local `user' `varlist'
= c_local y piq_timing_max
- local n : word count `varlist'
= local n : word count piq_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }
```

---

```

> ----- end tsunab -----

- local yname : subinstr local y "." "_"
- if "`weight'"!="" {
= if ""!="" {
```

```

    if "`weight'"=="fweight" {
      local wt `[fw`exp']"
    }
    else if "`weight'"=="iweight" {
      local wt `[iw`exp']"
    }
    else local wt `[aw`exp']"
  }
- summarize `y' `wt' if `touse', meanonly
= summarize piq_timing_max if __000002, meanonly
- if r(N) == 0 { error 2000 }
- if r(N) == 1 { error 2001 }
- if r(min) < 0 {
  di in red "`y' must be greater than or equal to zero"
  exit 459
}
- if r(min) == r(max) & r(min) == 0 {
  di in red "`y' is zero for all observations"
  exit 498
}
- 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 analyt
> ic weights."
}
- if "`constan`cns'"==" " & "`cluster'"==" " & "`weight'"!="pweight" {
= if ""==" " & ""==" " & ""!="pweight" {
- tempname c
- if "`offset'"!=" " {
= if ""!=" " {
  SolveC `y' `offset' [`weight`exp'] if `touse', n(`nobs') mean(`mean
> ')
  scalar `c' = r(_cons)
  if `c'>=. {

```

```

        di in blu "note: exposure = exp(`offvar`) overflows;" _n "      coul
> d not estimate constant-only model" _c
    if "`exposur'"==" " {
        di in blu _n "      use exposure() option for exposure = `offvar'."
    }
    else di in blu "."
    local cfail 1
}
local c "`c'+`offset'"
}
- else scalar `c' = ln(`mean')
= else scalar __000005 = ln(__000003)
- if "`cfail'"==" " {
= if ""==" " {
- LikePois `y' `c' [`weight'`exp'] if `touse', n(`nobs')
= LikePois piq_timing_max __000005 [] if __000002, n(__000004)
}

> ----- begin poisson.LikePois -----
- 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')-lgamma(`y'+1) `if'
= qui gen double __000006 = piq_timing_max*(__000005)-exp(__000005)-
> lgamma(piq_timing_max+1) if __000002
- summarize `lnf' `wt' `if', meanonly
= summarize __000006 if __000002, meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __000004 { exit }
- if "`weight'"=="aweight" {
= if ""=="aweight" {
    ret scalar lnf = r(N)*r(mean)
}
- else ret scalar lnf = r(sum)
}

> ----- end poisson.LikePois -----

```

```

- if r(lnf)<. {
- local ll0 "lf0(1 `r(lnf)')"
```

= local ll0 "lf0(1 -526.3044152481488)"

```

- }
- else {
di in blu "note: could not compute " "constant-only model log likeli
> hood."
    }
- }
- }
- 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 stky_pr_rotemberg stky_pr_calvo wg_nd
> x open other_channel bnkcrdit stky_wg [] if __000002,
    - local xvars `r(varlist)'
    = local xvars wlth stky_pr_rotemberg stky_pr_calvo wg_ndx open other_c
> hannel bnkcrdit stky_wg
    - if "`from'"==" {
    = if ""==" {
    - `vv' Ipois `y' `xvars' [weight`exp'] if `touse', n(`nobs') mean(`m
> ean') `constan' `offopt'
    = version 18, missing: Ipois piq_timing_max wlth stky_pr_rotemberg stk
> y_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg [] if __000002, n(__00
> 0004) mean(__000003)

> ----- begin poisson.Ipois -----
    - local vv : display "version " string(_caller()) ", missing:"
    - version 6, missing
    - syntax varlist(fv ts) [fw aw pw iw/] [if] , Nobs(string) Mean(stri
> ng) [ 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 piq_timing_max
    - `vv' _regress `ynew' `xvars' `awt' `if', `constan'
    = version 18, missing: _regress piq_timing_max wlth stky_pr_rotembe
> rg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg if __000002,


---


> 

---

 begin _ereturn_display 

---


    - 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) fwrap(1)


---


> 

---

 begin _get_mcompare 

---


    - version 11
    - local cmd ``e(cmd)''
    = local cmd `"regress"'
    - syntax [name(name=caller)] [, *]
    - local is_pwc = inlist("pwcompare", "`cmd'", "`caller'") | inli
> st("pwmean", "`cmd'", "`caller'")
    = local is_pwc = inlist("pwcompare", "regress", "") | inlist("pw
> mean", "regress", "")
    - local is_marg = inlist("margins", "`cmd'", "`e(cmd2)'", "`call
> er'")
    = local is_marg = inlist("margins", "regress", "", "")
    - local OPTIONS NOADJust BONferroni DUNCAn DUNNett SCHeffe 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 ``level(95.00) fvwrap(1)''
    - if `is_pwc' {
    = if 0 {
        local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `schef
> fe' `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 S
> IDak 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' `dunnet
> t' `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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `""' != "" {
        local ++n

```

```

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

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

    - 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_exclusive -----

    - 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 `METHO
> D""

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

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

> ----- begin _get_diopts.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "
}

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

```

```

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

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```



```

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

> ----- end opts_exclusive -----
    - opts_exclusive "`nocl' `nopvalues'"
    = opts_exclusive " "

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

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

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon

```

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

```

```

= opts_exclusive " " fvwrapon
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
    }
> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "fvwrap(1)" != "" {
- FVWrap, `fvwrap'
= FVWrap, fvwrap(1)
> ----- begin _get_diopts.FVWrap -----
- syntax, fvwrap(integer)
- if `fvwrap' < 0 {
= if 1 < 0 {
    di as err "{p}invalid option {bf:fvwrap(`fvwrap')}"; " "non
> negative integer required{p_end}"
    exit 198
    }
> ----- end _get_diopts.FVWrap -----
- }
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbre

```

```

> v'
= 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.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(

```

```

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

```



```

= if 0 < 2 {
- exit
}

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

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

```

```

> ----- end opts_exclusive -----
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
    -----

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

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

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

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

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {

```

```

        FWWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

    = 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.GetDiopts _____

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

> _____ begin _get_diopts.GetDiopts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

> _____ begin opts_exclusive _____

    - version 8.2

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```



```

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

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`coeflegend` `selegend`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

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

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

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

> ----- end opts_exclusive -----
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre

```

```

> v'
    = 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.GetDiopts _____
    - }
    - 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) fwwrap(1)''
    - }

> _____ end _get_diopts _____
    - 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 noeqcheck eformall `eform' `fi
> rst' `neqopt' `plus' `beta' `mcopt' `diopts'
= _coef_table, nodiparm nocnsreport noeqcheck eformall showeqns n
> eq(1) mcompare(noadjust ) fvwrap(1)

> ----- begin _coef_table -----
- version 11
- local vv : di "version " string(max(11,_caller())) ", missing:
> "
- if (!c(noisily) & c(coeftabresults) == "off") {
- exit
- }
- _check_eclass
- syntax [, BMATrix(passthru) VMATrix(passthru) * ]
- if "`e(b)'" == "" & "`e(V)'" == "" & "`bmatrix'`vmatrix'"==""
> {
= if "matrix" == "" & "matrix" == "" & ""=="" {
- exit
- }
- local mc_cmds contrast margins pwcompare pwmean
- local cmd "`e(cmd)'"
= local cmd "regress"
- local keepmc : list cmd in mc_cmds
- if inlist("`cmd'", "pwcompare", "pwmean") {
= if inlist("regress", "pwcompare", "pwmean") {
- local groups GROUPS
- }
- if "`cmd'" == "regress" {
= if "regress" == "regress" {
- local beta Beta
- }
- if "`cmd'" == "gsem" {
= if "regress" == "gsem" {
- local fvignore fvignore(int 0)

```

```

        local flignore flignore
    }
    - if "`cmd'" == "sem" {
= if "regress" == "sem" {
    local standardized STANDARDIZED
    local showginvariant SHOWGINvariant
    local nolabel NOLABel LABel NOFVLABel FVLABel
    local nofootnote NOFOOTnote
    local wrap wrap(numlist max=1) fwwrap(passthru)
    }
    - if "`e(mi)'"=="mi" {
= if ""=="mi" {
    local dftable DFTable
    local dfonly DFONLY
    local noclustreport NOCLUSTReport
    local pisematrix PISEMATrix(string)
    }
    - syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) R
> OWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(stri
> ng) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string) P
> CLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(stri
> ng asis) `beta' `standardized' NOCI NOPValues `dftable' `dfonly' dfci DFPVal
> ues dfmissing `groups' COEFLegend selegend `fvignore' `flignore' `showginvar
> iant' `nolabel' `nofootnote' `wrap' sort `pisematrix' depname(string) COEFTi
> tle(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEgend noC
> NSReport FULLCNSReport `noclustreport' cformat(passthru) sformat(passthru) p
> format(passthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SEP
> rator(integer 0) NOSKIP OFFSETONLY1 PPlus NOEQCHECK EFORMALL CITYPE(string) e
> qselect(string) noEFORMNOTE * ]
    = syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) R
> OWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(stri
> ng) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string) P
> CLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(stri
> ng asis) Beta NOCI NOPValues dfci DFPValues dfmissing COEFLegend selegen
> d sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(st
> ring) cititle(string) NOMCLEgend noCNSReport FULLCNSReport cformat(passthru
> ) sformat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -1)
> NODIPARM NOTEST SEPARATOR(integer 0) NOSKIP OFFSETONLY1 PPlus NOEQCHECK EFOR
> MALL CITYPE(string) eqselect(string) noEFORMNOTE * ]
    - if "`wrap'" != "" {
= if "" != "" {
    opts_exclusive `wrap(`wrap') `fwwrap'
    local fwwrap fwwrap(`wrap')
    }
}

```

```

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

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

```

```

- if ("`dfonly`"!=" & "`norowci`"!=") {
= if ("!=" & "!=") {
  di as err "{bf:norowci} is not allowed with {bf:`dfonly`}"
  exit 198
}
- if ("`noci`"!=" & "`norowci`"!=") {
= if ("!=" & "!=") {
  di as err "{bf:norowci} is not allowed with {bf:`noci`}"
  exit 198
}
- if "`standardized`" != "" & "`bstdmatrix`" != "" {
= if "" != "" & "" != "" {
  local beta beta
  local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
- local type `beta' `noci' `nopvalues' `dftable' `dfonly' `group
> s' `dfci' `dfpvalues'
  = local type
  - }
  - opts_exclusive "`type`"
  = opts_exclusive ""
  _____
> _____ begin opts_exclusive _____
  - version 8.2
  - args opts optname errcode optslab
  - local opts `opts'
  = local opts
  - local n 0
  - while "`opts`" != "" {
  = while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
  - if `n' < 2 {
  = if 0 < 2 {
  - exit
  _____
> _____ end opts_exclusive _____
  - opts_exclusive "`first' `nofirst`"
  = opts_exclusive " "
  _____
> _____ begin opts_exclusive _____
  - version 8.2
  - args opts optname errcode optslab

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`first' `showeqns'"
= opts_exclusive " showeqns"

```

---

```

> ----- begin opts_exclusive -----
- 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_exclusive -----
- local cnsreport `cnsreport' `fullcnsreport'
= local cnsreport nocnsreport
- opts_exclusive "`cnsreport'"
= opts_exclusive "nocnsreport"

```

---

```

> ----- begin opts_exclusive -----
- 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_exclusive -----

- 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_mcompare -----

- 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 ``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 `", noadjust'''
- 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 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_exclusive -----
>
- 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_exclusive -----

- if "METHOD" == "" {
= if "noadjust" == "" {
  if "`ALL'" != "" {
    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_exclusive -----

- 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_exclusive -----
- 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_mcompare -----

    - 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_exclusive -----

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

> ----- end opts_exclusive -----

    - 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_diopts -----

    - version 11
    - syntax namelist(max=2) [, *]
```

```

- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options, fwrap(1)

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

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

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

```

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon \_\_\_\_\_

```

- 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\_exclusive \_\_\_\_\_

```

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

```

```

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

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

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

> ----- begin _get_diopts.FVWrap -----
    - 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 -----
    - }
    - 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' `fvwrapon' `fvlabel' `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.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```



```

= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


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


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0

```

```

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

```

---

```

> ----- end opts_exclusive -----
- 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')
}
- Wraon , `fvwraon'
= Wraon ,

```

---

```

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

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

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2''' == "" {
    = if "options" == "" {
        GetDiopts DUPS, `options'
    }
    - else {
    - GetDiopts DUPS options, `options'
    = GetDiopts DUPS options,
}

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

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

```

```

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

```

```

= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


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


---


> 

---

 begin opts_exclusive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```



```

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

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

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

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

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

> ----- begin opts_exclusive -----

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - 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.Wrapon _____
```

```

- capture syntax [, W0rd 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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
> ----- end opts_exclusive -----
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
= if "" != "" {
        FVWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
- 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_diopts -----
- 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_diopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

```



```

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

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

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

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

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

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

```

```

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

```

---

```

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

```

---

```

> ----- begin opts_exclusive -----
    - version 8.2

```

```

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

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

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

> ----- begin _get_diopts.FVWrap -----
- 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 -----
- }
- 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' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

= c_local diopts          fvwrap(1)
- if `K' == 2 {
= if 2 == 2 {

```

```

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

```

---

```

> ----- end _get_diopts.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "

```

---



```

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

> ----- end opts_exclusive -----
    - opts_exclusive "`allbaselevels' `nbaselevels'"
    = opts_exclusive " "

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

> ----- end opts_exclusive -----
    - opts_exclusive "`baselevels' `nbaselevels'"
    = opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----

    - opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

    - opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

- exit


---


> 

---

 end opts_exclusive 

---


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


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


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


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


- opts_exclusive ``abbrev' `noabbrev'
= opts_exclusive " "


---



```

```

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

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

```

---

```

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

```

---

```

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2'' == "" {
    = if ``'' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,



---


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



---


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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```

```

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

```

```

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

```

---

```

> ----- end opts_exclusive -----
- 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')
}
- Wraon , `fvwraon'
= Wraon ,

```

---



```

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

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

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----

- }
- 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_diopts -----

- local cformat ``s(cformat)''
= local cformat `''
- local sformat ``s(sformat)''
= local sformat `''
- local pformat ``s(pformat)''

```

```

= local pformat `""'
- _get_eformopts , eformopts(`options') allowed(__all__) soption
> s
= _get_eformopts , eformopts() allowed(__all__) soptions
_____
> _____ begin _get_eformopts _____
- 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'

```



```

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

```

```

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

```

```

    }
  }
  - sreturn clear
  - sreturn local options ``opts'''
= sreturn local options `'''
  - sreturn local opt `eform'
= sreturn local opt
  - sreturn local str `eform1'
= sreturn local str
  - if ``eform1''' != "" {
= if `''' != "" {
    sreturn local eform eform(`eform1'')
  }
  - else sreturn local eform ""
  - sreturn local eform_cons_ti `eform_cons_ti'
= sreturn local eform_cons_ti
  - sreturn local eform_cons_note `eform_cons_note'
= sreturn local eform_cons_note
  - sreturn local eform_cons_ti2 `eform_cons_ti2'
= sreturn local eform_cons_ti2
}
}
> ----- end _get_eformopts -----
- 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', ``ef
> ormdi'')

```



```

= local coefttl = cond('"'=='', '', '')
- local options ``s(options)''
= local options ``'
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)

```

---

```

> ----- begin _get_diparmopts -----
- 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.SpliceGlobals -----
- syntax name(id="macro name" name=c_diparm) [, diparm(strin
> g asis) Level(cilevel) dof(passthru) syntaxonly ]
- if ``dof'' == "" & ``e(df_r)'' != "" {
= if ``' == "" & ``209'' != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 209
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(209)
- }
- 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.SpliceGlobals -----
- local 0 `", `diparmopts''
= local 0 `", ''
- local diparmopts

```

```

- local k 0
- syntax [, diparm(string asis) * ]
- while ``diparm'' != "" {
= while ``'' != "" {
    local ++k
    local single 1
    local after
    capture _on_colon_parse `diparm'
    if !c(rc) {
        local single 0
        local diparm ``s(before)''
        local after ``s(after)''
    }
    capture
    SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptio

> ns'

    local diparm`k' ``diparm''
    local diparmopts ``diparmopts' : `diparm''
    if `single' | ``:list retok after'' == "" {
        local 0 `", `options''
        syntax [, diparm(string asis) * ]
    }
    else {
        local diparm ``after''
    }
}

- if ``soptions'' == "" {
= if ``'' == "" {
- syntax [, diparm(string asis) ]
- }
- if ("`execute" == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options ``options''
= sreturn local options ``''
- sreturn local diparm ``diparmopts''
= sreturn local diparm ``''
- forval i = 1/`k' {
= forval i = 1/0 {
    sreturn local diparm`i' ``diparm`i''
}
- sreturn local k `k'
= sreturn local k 0
- exit

> _____ end _get_diparmopts _____

```

```

- 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_diopts -----
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options, fwrap(1)
}

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

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

```



```

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

```

```

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

```

---

```

> ----- end opts_exclusive -----
- 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')
}
- Wraon , `fvwraon'
= Wraon ,

```

---

```

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

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

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

> ----- begin _get_diopts.FVWrap -----
    - 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 -----
- }
- 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' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

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

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

> ----- begin _get_diopts.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV

- syntax namelist(max=2) [, `DIOPTS' *]
```

```

= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

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

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

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

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`omitted` `noomitted`"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch` `nolstretch`"
= opts_exclusive " "

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

```



```

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

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

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')

```

```

    }
}

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2'' == "" {
    = if ``' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV

    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]

```

```

- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```



```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

```

```

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

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

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

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'

```

```

    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - }
    - 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_diopts -----
- 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_cons
> _ti" != "" & "`e(consonly)'" != "1") {
= if (``" != "" & "" == "0" & ``" != "" & "" != "1") {
    if ("`e(cmd)'" == "asclogit" | "`e(cmd)'" == "cmclogit" | "`e(cmd)
> "" == "cmmixlogit" | "`e(cmd)'" == "cmxtmixlogit" ) {
      local asvar = ``"e(ranvars)'"`e(fixvars)'"`e(indvars)'" != ""
      if ``"e(casevars)'" != "" & `asvar' {
        local note1 "Exponentiated coefficients represent odds ratios
> for "
        local note2 "alternative-specific variables (first equation) a
> nd "
        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 = udsustr("`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_cons_
> note'`extranote'" _c
    if ("`e(cmd)'"=="mlogit" | "`e(cmd)'"=="asclogit" | "`e(cmd)'"
> == "cmclogit" | "`e(cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
        di as txt " for each outcome" _c
    }
    di as txt ".{p_end}"
    }
- }
- return add
- if !`keepmc' {
= if !0 {
- return local mcmethod
- return local mctitle
- }

_____  

> _____ end _coef_table _____  

_____  

> _____ end _ereturn_display _____  

- mat `b1' = (1/`mean')*e(b)  

= mat __000008 = (1/__000003)*e(b)  

- mat score double `xb' = `b1' `if'  

= mat score double __000006 = __000008 if __000002  

- LikePois `y' `xb' `poff' [`weight' `exp'] `if', n(`nobs')

```

```

= LikePois piq_timing_max __000006 [] if __000002, n(__000004)


---


> 

---

 begin poisson.LikePois 

---


- 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')-lgamma(`y'+1) `if'
= qui gen double __00000B = piq_timing_max*(__000006)-exp(__000006
> )-lgamma(piq_timing_max+1) if __000002
- summarize `lnf' `wt' `if', meanonly
= summarize __00000B if __000002, meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __000004 { exit }
- if "`weight'"=="aweight" {
= if ""=="aweight" {
ret scalar lnf = r(N)*r(mean)
}
- else ret scalar lnf = r(sum)


---


> 

---

 end poisson.LikePois 

---


- scalar `lnf1' = r(lnf)
= scalar __00000A = r(lnf)
- }
- if "`constan'"=="" {
= if ""=="" {
- SolveC `y' `xb'`poff' [`weight'`exp'] `if', n(`nobs') mean(`mean')
= SolveC piq_timing_max __000006 [] if __000002, n(__000004) mean(__
> 000003)


---


> 

---

 begin poisson.SolveC 

---


- 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.SolveC -----
    - 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 piq_timing_max __000006+__00000B [] if __000002, n(__0000

```

> 04)

---

```

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

> ----- end poisson.LikePois -----
- tempname lnf1c
- scalar `lnf1c' = r(lnf)
= scalar __00000C = r(lnf)
- }
- else local lnf1c .
- capture {
- gen double `z' = `y'*exp(-(`xb'`poff'`c'))-1 +`xb'`c' `if'
= gen double __000007 = piq_timing_max*exp(-(__000006+__00000B))-1 +
> __000006+__00000B if __000002
- `vv' _regress `z' `xvars' [aw=`wt'exp(`xb'`poff'`c')]' `if', `const
> an'
= version 18, missing: _regress __000007 wlth stky_pr_rotemberg stk
> y_pr_calvo wg_ndx open other_channel bnkcredit stky_wg [aw=exp(__000006+__000
> 00B)] if __000002,

> ----- begin _ereturn_display -----
- 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) PPlus `ALTOPT' *]
= syntax [, eform(passthru) First neq(integer -1) PPlus Beta *]
- _get_mcompare, `options'
= _get_mcompare, level(95.00) fwrap(1)

```

---

```

> ----- begin _get_mcompare -----
- version 11
- local cmd ``e(cmd)''
= local cmd ``regress''
- syntax [name(name=caller)] [, *]
- local is_pwc = inlist("pwcompare", ``cmd'', ``caller'') | inli
> st("pwmean", ``cmd'', ``caller'')
= local is_pwc = inlist("pwcompare", "regress", "") | inlist("pw
> mean", "regress", "")
- local is_marg = inlist("margins", ``cmd'', ``e(cmd2)'', ``call
> er'')
= local is_marg = inlist("margins", "regress", "", "")
- local OPTIONS NOADJust BONferroni DUNCAn DUNNett SCHeffe 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 ``level(95.00) fwrap(1)''
- if `is_pwc' {
= if 0 {
    local METHOD `noadjust' `bonferroni' `duncan' `dunnett' `schef
> fe' `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 S
> IDak 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' `dunnet
> t' `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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'"" != "" {
    = while `"" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - if ""`METHOD'"" == "" {
    = if "" == "" {
    - if ""`ALL'"" != "" {
    = if "" != "" {
        di as err "multiple comparison method required with the adjust
> all option"
        exit 198
    }
    - local METHOD noadjust

```

```

- local noadjust noadjust
- }
- opts_exclusive "`ALL' `noadjust'" `suboption'
= opts_exclusive " noadjust" mcompare()

> ----- begin opts_exclusive -----
- 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_exclusive -----
- 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 `METHO
> D''''
        exit 198
    }
}
- sreturn local method ``METHOD''
= sreturn local method ``noadjust''
- sreturn local adjustall ``ALL''
= sreturn local adjustall ``''

> _____ end _get_mcompare _____

- 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) fwrap(1)

> _____ begin _get_diopts _____

- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options, level(95.00) fwrap(1)

> _____ begin _get_diopts.GetDiopts _____

```



```

- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

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

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

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

```

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

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

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

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

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

```

```

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

```

```

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

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

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

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon

```

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

```

---

> begin opts\_exclusive

```

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

```



```

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

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

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

> ----- end _get_diopts.FVWrap -----
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

    = 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.GetDiopts -----
    - 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.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "
    -----

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

```

```

= if 0 < 2 {
- exit
}

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

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- 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')
}
- Wraon , `fvwraon'
= Wraon ,

```

---

```

> _____ begin _get_diopts.Wraon _____
- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd WIdth]
    exit 198

```

```

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


---


> 

---

 begin opts_exclusive 

---


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


---


> 

---

 end opts_exclusive 

---


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


---


> 

---

 end _get_diopts.Wrapon 

---


    - if "`fwrap'" != "" {
= if "" != "" {
        FVWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fwrap' `fwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

= 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.GetDiopts -----
- if ``name2''' == "" {
= if `''' == "" {
- GetDiopts DUPS, `options'
= GetDiopts DUPS,

```

---

```

> ----- begin _get_diopts.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEle
> vels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive ``emptycells' `noemptycells'
= opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel` `nofvlabel`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

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

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

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

```

```

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

```

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

```

---

> begin opts\_exclusive

```

- version 8.2

```

```

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

> ----- end opts_exclusive -----

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

> ----- end _get_diopts.Wrapon -----

- if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

= 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.GetDiopts -----

```

```

- }
- 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_diopts -----
- 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 noeqcheck eformall `eform' `fi
> rst' `neqopt' `plus' `beta' `mcopt' `diopts'
= _coef_table, nodiparm nocnsreport noeqcheck eformall showeqns n
> eq(1) mcompare(noadjust ) fvwrap(1)

```

---

```

> ----- begin _coef_table -----
- version 11
- local vv : di "version " string(max(11,_caller())) ", missing:
> "
- 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(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) R
> OWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(stri
> ng) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string) P
> CLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(stri
> ng asis) `beta' `standardized' NOCI NOPValues `dftable' `dfonly' dfci DFPVal
> ues dfmissing `groups' COEFLegend selegend `fvignore' `flignore' `showginvar
> iant' `nolabel' `nofootnote' `wrap' sort `pisematrix' depname(string) COEFTi
> tle(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEgend noC
> NSReport FULLCNSReport `noclustreport' cformat(passthru) sformat(passthru) p
> format(passthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SEP
> rator(integer 0) NOSKIP OFFSETONLY1 PPlus NOEQCHECK EFORMALL CITYPE(string) e
> qselect(string) noEFORMNOTE * ]

    = syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) R
> OWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(stri
> ng) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string) P
> CLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(stri
> ng asis) Beta NOCI NOPValues dfci DFPValues dfmissing COEFLegend selegen
> d sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(st
> ring) cititle(string) NOMCLEgend noCNSReport FULLCNSReport cformat(passthru
> ) sformat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -1)
> NODIPARM NOTEST SEPARATOR(integer 0) NOSKIP OFFSETONLY1 PPlus NOEQCHECK EFOR
> MALL 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

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

```

```

        = if 0 == 0 {
            - local type `beta' `noci' `nopvalues' `dftable' `dfonly' `group
> s' `dfci' `dfpvalues'
            = local type
            - }
            - opts_exclusive "`type'"
            = opts_exclusive ""
        }

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

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

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

> ----- end opts_exclusive -----
        - opts_exclusive "`first' `showeqns'"
        = opts_exclusive " showeqns"
    
```



```

> ----- begin opts_exclusive -----
    - 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_exclusive -----
    - local cnsreport `cnsreport' `fullcnsreport'
    = local cnsreport nocnsreport
    - opts_exclusive "`cnsreport'"
    = opts_exclusive "nocnsreport"

> ----- begin opts_exclusive -----
    - 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_exclusive -----
- 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_mcompare -----
- 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 "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 `", noadjust'"
    - 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 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_exclusive -----
    - 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_exclusive -----

```

```

- if "`METHOD'" == "" {
= if "noadjust" == "" {
  if "`ALL'" != "" {
    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_exclusive 

---


- 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_exclusive 

---


- 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_mcompare 

---



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

> ----- end opts_exclusive -----
    - 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_diopts -----
    - 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.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPvalues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND

```

```

> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

```



```

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

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

- exit
> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- 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.Wrapon -----
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

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

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

> ----- end _get_diopts.Wrapon -----

```

```

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

> ----- begin _get_diopts.FVWrap -----
- 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 -----
- }
- 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' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

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

> ----- end _get_diopts.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```



```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive ``emptycells' `noemptycells'
= opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

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

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

```

```

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

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

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

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

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- 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.Wrapon

```

- 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\_exclusive

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

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

> ----- end opts_exclusive -----

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

> ----- end _get_diopts.Wrapon -----

- if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----

- if ``name2'' == "" {
= if `options' == "" {
    GetDiopts DUPS, `options'
}

```



```

- else {
- GetDiopts DUPS options, `options'
= GetDiopts DUPS options,

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive ``emptycells' `noemptycells'
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`versus' `compare'"

```

```

= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive ``abbrev' `noabbrev'
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- 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.Wrapon
- capture syntax [, W0rd WIdth]
- if c(rc) {
di as err "invalid fvwrapon() option;"
syntax [, W0rd WIdth]
exit 198
}
- opts_exclusive ``word' `width' fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

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

```



```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}
> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - 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_diopts -----

- 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_diopts -----

- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F

```

```

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

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

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

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

```

```

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

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

> ----- end opts_exclusive -----
    - opts_exclusive ``emptycells' `noemptycells'
    = opts_exclusive " "
    -----

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

> ----- end opts_exclusive -----
    - opts_exclusive ``fvlabel' `nofvlabel'
    = opts_exclusive " "
    -----

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

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

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

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

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

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

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

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

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

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

> ----- begin opts_exclusive -----

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

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

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon

```

```

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

> ----- end _get_diopts.Wrapon -----

- if "`fwwrap'" != "" {
= if "fwwrap(1)" != "" {
- FWWrap, `fwwrap'
= FWWrap, fwwrap(1)
}

> ----- begin _get_diopts.FWWrap -----

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

> ----- end _get_diopts.FWWrap -----

- }
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwwrap' `fwwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'

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

> ----- end _get_diopts.GetDiopts -----

- c_local `name1' ``diopts'
= c_local ignore `fwwrap(1)'
- local snames : s(macros)

```

```

- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_options = s(options)
- }
- local S_`sname' = s(`sname')
= local S_method = s(method)
- }
- sreturn clear
- GetDiopts DEFAULT

```

---

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

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

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

```

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```



```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

    - opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

```

```

- 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.Wrapon

```

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

```

---

```

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

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

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2`` == "" {
    = if ```` == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,

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

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

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

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive ``emptycells' `noemptycells'
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

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

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

```

```

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

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

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

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

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

```



```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- 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.Wrapon

```

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

```

---

> begin opts\_exclusive

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

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

> ----- end opts_exclusive -----

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

> ----- end _get_diopts.Wrapon -----

- if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- 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' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'

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

> ----- end _get_diopts.GetDiopts -----

- }
- 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_diopts -----

- local cformat ``s(cformat)''
= local cformat `''
- local sformat ``s(sformat)''
= local sformat `''
- local pformat ``s(pformat)''
= local pformat `''
- _get_eformopts , eformopts(`options') allowed(__all__) soption
> s
= _get_eformopts , eformopts() allowed(__all__) soptions
}
> ----- begin _get_eformopts -----

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

```

```

        local eform_cons_ti = "Time"
        local eform_cons_note = "time ratios"
    }
    else if ("`eform'"=="or") {
        local eform1 = "Odds ratio"
        if ("`e(cmd)'"=="asclogit" | "`e(cmd)'"=="cmclogit" | "`e(cm
> d)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
            local eform_cons_ti = "Rel. risk"
            local eform_cons_note = "relative-risk ratios"
            local eform_cons_ti2 = "relative risk"
        }
        else {
            local eform_cons_ti = "Odds"
            local eform_cons_note = "odds ratios"
        }
    }
    else if ("`eform'"=="irr") {
        local eform1 = "IRR"
        local eform_cons_ti = "Inc. rate"
        local eform_cons_note = "incidence-rate ratios"
        local eform_cons_ti2 = "incidence rate"
    }
    else if ("`eform'"=="rrr") {
        local eform1 = "RRR"
        local eform_cons_ti = "Rel. risk"
        local eform_cons_note = "relative-risk ratios"
        local eform_cons_ti2 = "relative risk"
    }
    else if ("`eform'"!="nohr") & ("`eform'"!="nosh") {
        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_eformopts -----
- 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'', ``ef
> ormdi'')
= local coefttl = cond(`""=="", `'', `')
- local options ``s(options)''
= local options ``''
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)

```

---

```

> ----- begin _get_diparmopts -----
- 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.SpliceGlobals _____
- syntax name(id="macro name" name=c_diparm) [, diparm(strin
> g asis) Level(cilevel) dof(passthru) syntaxonly ]
- if ``dof''' == "" & ``e(df_r)''' != "" {
= if `''' == "" & ``209''' != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 209
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(209)
- }
- 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.SpliceGlobals _____
- local 0 `", `diparmopts'''
= local 0 `", ""
- local diparmopts
- local k 0
- syntax [, diparm(string asis) * ]
- while ``diparm''' != "" {
= while `''' != "" {
local ++k
local single 1
local after
capture _on_colon_parse `diparm'
if !c(rc) {
local single 0
local diparm ``s(before)'''
local after ``s(after)'''
}
capture
SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptio
> ns'

```

```

local diparm`k' ```diparm'''
local diparmopts ```diparmopts' : `diparm'''
if `single' | ```:list retok after''' == "" {
local 0 `", `options'''
syntax [, diparm(string asis) * ]
}
else {
local diparm ```after'''
}
}
- if ```soptions''' == "" {
= if `''' == "" {
- syntax [, diparm(string asis) ]
- }
- if ("`execute'" == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options ```options'''
= sreturn local options `'''
- sreturn local diparm ```diparmopts'''
= sreturn local diparm `'''
- forval i = 1/`k' {
= forval i = 1/0 {
sreturn local diparm`i' ```diparm`i''''
}
- sreturn local k `k'
= sreturn local k 0
- exit

```

---

```

> ----- end _get_diparmopts -----
- 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, `GTPTS'
  while `:length local rest' {
    local ++k
    local diparm`k' : copy local diparm
    gettoken COLON rest : rest, `GTPTS'
    gettoken diparm rest : rest, `GTPTS'
  }
  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, `GTPTS'
    while `:length local rest' {
      local ++k
      local diparm`k' : copy local diparm
      gettoken COLON rest : rest, `GTPTS'
      gettoken diparm rest : rest, `GTPTS'
    }
    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\_diopts \_\_\_\_\_

```

- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```



```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive ``emptycells' `noemptycells'
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

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

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

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

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

```

```

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

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

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

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

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

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

```

```

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- 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.Wrapon

```

- 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\_exclusive

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

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

> ----- end opts_exclusive -----

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

> ----- end _get_diopts.Wrapon -----

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

> ----- begin _get_diopts.FVWrap -----

- 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 -----

- }
- 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' `fvwrapon' `fvlabel' `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.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels` `nbaselevels`"
= opts_exclusive " "

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

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels` `nbaselevels`"
= opts_exclusive " "

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

```

```

> ----- end opts_exclusive -----
    - opts_exclusive ""emptycells' `noemptycells'""
    = opts_exclusive " "

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

> ----- end opts_exclusive -----
    - opts_exclusive ""fvlabel' `nofvlabel'""
    = opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

```

```

= if 0 < 2 {
- exit
}

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

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

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

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

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

```

```

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

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

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

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

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

```

```

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

> ----- end opts_exclusive -----
- 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.Wrapon \_\_\_\_\_



```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- 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' `fvwrapon' `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.GetDiopts -----
    - if ``name2'' == "" {
    = if ``'' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,

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

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

```

```

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

```

```

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

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

---

```

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

```

---

```

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

```

---

```

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

```

```

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

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

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

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

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

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

```

```

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

> ----- end opts_exclusive -----
- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

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

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

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

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

> ----- end opts_exclusive -----

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

> ----- begin opts_exclusive -----

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

> ----- end opts_exclusive -----

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

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

```

- exit

---

```
> ----- end opts_exclusive -----
- 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.Wrapon _____
- capture syntax [, W0rd WIdth]
- if c(rc) {
di as err "invalid fvwrapon() option;"
syntax [, W0rd WIdth]
exit 198
}

```

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- end _get_diopts.Wrapon -----
- if "`fwrap'" != "" {
= if "" != "" {
  FVWrap, `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' `nocl' `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.GetDiopts -----
- }
- 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_diopts -----
- 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_cons
> _ti'" != "" & "`e(consonly)'" != "1") {
        = if ("`'" != "" & "" == "0" & "`'" != "" & "" != "1") {
            if ("`e(cmd)'" == "asclogit" | "`e(cmd)'" == "cmclogit" | "`e(cmd)
> '" == "cmmixlogit" | "`e(cmd)'" == "cmxtmixlogit" ) {
                local asvar = "`e(ranvars)'"`e(fixvars)'"`e(indvars)'" != ""
                if "`e(casevars)'" != "" & `asvar' {
                    local note1 "Exponentiated coefficients represent odds ratios
> for "
                    local note2 "alternative-specific variables (first equation) a
> nd "
                    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 = udsustr("`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_cons_
> note'`extranote'" _c
    if ("`e(cmd)'"=="mlogit" | "`e(cmd)'"=="asclogit" | "`e(cmd)'"
> ==="cmclogit" | "`e(cmd)'"=="cmmixlogit" | "`e(cmd)'"=="cmxtmixlogit" ) {
        di as txt " for each outcome" _c
    }
    di as txt ".{p_end}"
    }
- }
- return add
- if !`keepmc' {
= if !0 {
- return local mcmethod
- return local mctitle
- }
}

> _____ end _coef_table _____
> _____ end _ereturn_display _____

- mat `b2' = e(b)
= mat __000009 = e(b)
- drop `xb'
= drop __000006
- _predict double `xb' `if'
= _predict double __000006 if __000002
- LikePois `y' `xb'`poff' [`weight'`exp'] `if', n(`nobs')
= LikePois piq_timing_max __000006 [] if __000002, n(__000004)

> _____ begin poisson.LikePois _____

- 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')-lgamma(`y'+1) `if'
    = qui gen double __00000D = piq_timing_max*(__000006)-exp(__000006
> )-lgamma(piq_timing_max+1) if __000002
    - summarize `lnf' `wt' `if', meanonly
    = summarize __00000D if __000002, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000004 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)
    }

> ----- end poisson.LikePois -----

    - 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.Ipois -----

    - 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' `offopt
> ') [`weight'`exp'] if `touse', collinear missing max nooutput nopreserve `ml
> opts' title(Poisson regression) `scopt' `robust' `clopt' `initopt' `ll0' `ne
> gh' `moptobj'

```

```

= version 18, missing: ml model e2 poiss_lf (piq_timing_max: piq_timin
> g_max = wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcr
> dit stky_wg, ) [] if __000002, collinear missing max nooutput nopreserve t
> itle(Poisson regression) robust init(__000006) search(off) lf0(1 -526.3044
> 152481488) negh

```

```

> ----- begin ml -----
- if _caller()>=11 {
- mopt `0'
= mopt model e2 poiss_lf (piq_timing_max: piq_timing_max = wlth stky
> _pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, ) [
> ] if __000002, collinear missing max nooutput nopreserve title(Poisson regr
> ession) robust init(__000006) search(off) lf0(1 -526.3044152481488) negh

```

```

> ----- begin mopt -----
- local vv : di "version " string(_caller()) ":"
- version 12
- gettoken subcmd 0 : 0, parse(" ,")
- local lcmd : length local subcmd
- if "`subcmd'" == "clear" {
= if "model" == "clear" {
Clear
exit
}
- if ``"subcmd" == "hold" {
= if `"model"' == "hold" {
ml_hold `0'
exit
}
- if ``"subcmd" == "unhold" {
= if `"model"' == "unhold" {
ml_unhold `0'
exit
}
- if "`subcmd'" == "score" {
= if "model" == "score" {
if _caller() > 12 {
`vv' Score `0'
}
else {
Score `0'
}
}
}

```

```

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

```



```

= if "model" == "," {
    Display, `0'
    exit
}
- if "`subcmd'" == bsubstr("model",1,max(3,`lcmd')) {
= if "model" == bsubstr("model",1,max(3,5)) {
- `vv' capture noi Model `0'
= version 18: capture noi Model e2 poiss_lf (piq_timing_max: piq_
> timing_max = wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel
> bnkcredit stky_wg, ) [] if __000002, collinear missing max nooutput nopreser
> ve title(Poisson regression) robust init(__000006) search(off) lf0(1 -526
> .3044152481488) negh

```

---

```

> ----- begin mopt.Model -----
- 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(s
> tring) noCNSNOTes VCE(passthru) NEGh NOPREserve TECHnique(string) ITERID(str
> ing) CRITtype(string) OBS(numlist max=1 >0) TITle(string) WALDtest(integer -
> 1) SVY SUBpop(string) SRSsubpop noSVYadjust SCORE(passthru) noOUTput noSCVAR
> S GROUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIV
> SCALE(string) DERIV(string) nrderiv GNWMATrix(string) KAUXiliary(numlist int
> >=0) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru)
> moptobj(string) USEVIEWS * ]
- if ``moptobj''' == "" {
= if `""' == "" {
- Clear

```

---

```

> ----- begin mopt.Clear -----
- 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.Clear -----
- }
- local maxmin `minimize' `maximize'
= local maxmin maximize
- opts_exclusive "`maxmin'"
= opts_exclusive "maximize"

> ----- begin opts_exclusive -----
- 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_exclusive -----
- if `:length local maxmin' {
= if 8 {
- local interactive 0
- }
- else local interactive 1
- _get_diparmopts, diparmopts(`options') soptions syntaxonly
= _get_diparmopts, diparmopts(search(off)) soptions syntaxonly

> ----- begin _get_diparmopts -----
- 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
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk ,

> ----- begin _get_diparmopts.SpliceGlobals -----
- syntax name(id="macro name" name=c_diparm) [, diparm(strin
> g asis) Level(cilevel) dof(passthru) syntaxonly ]
- if ``dof''' == "" & ``e(df_r)''' != "" {
= if `''' == "" & `209' != "" {
- capture confirm integer number `e(df_r)'
= capture confirm integer number 209
- if !c(rc) {
- local gdof dof(`e(df_r)')
= local gdof dof(209)
- }
- 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.SpliceGlobals -----
- 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' `goptio

```

> ns'

```
local diparm`k' ```diparm''
local diparmopts ```diparmopts' : `diparm''
if `single' | ```:list retok after'''' == '' {
local 0 `", `options''
syntax [, diparm(string asis) * ]
}
else {
local diparm ```after''
}
}
- if ```soptions'''' == '' {
= if ``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\_diparmopts \_\_\_\_\_

```
- 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 121 {
  - local ++ieq
  - gettoken eq eqspec : eqspec, bind
  - if bsubstr(trim("`eq'"),1,1) == "/" {
    = if bsubstr(trim("(piq_timing_max: piqu_timing_max = wlth stky_p
> r_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg,  )"),1
> ,1) == "/" {
    local eq = bsubstr(trim("`eq'"),2,.)
    local spec : subinstr local spec "/"`eq' " ("`eq':`fparm')"' ,
> word
  }
- else {

```

```

- gettoken p1 p2 : eq, parse("()")
- local p2 = trim("`p2'")
= local p2 = trim("piq_timing_max: piq_timing_max = wlth stky_p
> r_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )"')
- if bsubstr("`p2'",1,1) == "," {
= if bsubstr("piq_timing_max: piq_timing_max = wlth stky_pr_rote
> mberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )" ,1,1) ==
> "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim("`p2'")
  }
- if "`p1'`p2'" == "()" {
= if `(piq_timing_max: piq_timing_max = wlth stky_pr_rottemberg
> stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )" ' == "()" {
  local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
  }
- }
- }
- while `:length local eqspec' {
= while 3 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim("`eq'"),1,1) == "/" {
= if bsubstr(trim("[]"),1,1) == "/" {
  local eq = bsubstr(trim("`eq'"),2,.)
  local spec : subinstr local spec "/"`eq'" `("eq`ieq':`fparm')"' ,
> word
  }
- else {
- gettoken p1 p2 : eq, parse("()")
- local p2 = trim("`p2'")
= local p2 = trim(`')
- if bsubstr("`p2'",1,1) == "," {
= if bsubstr("",1,1) == "," {
  gettoken comma p2 : p2, parse(",")
  local p2 = trim("`p2'")
  }
- if "`p1'`p2'" == "()" {
= if `[]" == "()" {
  local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
  }
- }
- }
- while `:length local eqspec' {
= while 0 {
  local ++ieq

```

```

gettoken eq eqspec : eqspec, bind
if bsubstr(trim("`eq'"),1,1) == "/" {
  local eq = bsubstr(trim("`eq'"),2,.)
  local spec : subinstr local spec "/"`eq' " ("`eq':`fparm')"',
> word

}
else {
  gettoken p1 p2 : eq, parse("(")
  local p2 = trim("`p2'")
  if bsubstr("`p2'",1,1) == "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim("`p2'")
  }
  if "`p1'`p2'" == "(" {
    local spec : subinstr local spec "`eq' "(eq`ieq':)", word
  }
}
}
- if `interactive' {
= if 0 {
  SetGlobalVar ML_sample : _MLtua
}
- else {
- global ML_sample : tempvar
- if "`moptobj'" != "" {
= if `"' != "" {
  global ML_sample `moptobj'$ML_sample
}
- }
- if "`moptobj'" != "" {
= if `"' != "" {
  cap drop $ML_sample
}
- `vv' mark $ML_sample `if' `in' [`weight'`exp'], `zeroweight'
= version 18: mark __000007 if __000002 [],
- tempname eqlist
- `.eqlist' = .eqlist.new, eqopts(NOCONSTant FREEParM) eqargopt
> s(OFFset EXPosure) noneedvarlist numdepvars(0) needequal
= __000008 = .eqlist.new, eqopts(NOCONSTant FREEParM) eqargopt
> s(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.new -----
- version 9.2
- ._init

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

> ----- end _eqlist._init -----
- ._setup `0'
= ._setup , eqopts(NOCONSTant FREEParam) eqargopts(OFFset EXPos
> ure) noneedvarlist numdepvars(0) needequal

```



```

> ----- begin _eqlist._setup -----
- version 9.2
- .mark_list = {}
- .mark_name = {}
- .mark_opts.reset
-----

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}
-----

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

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}
-----

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

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}
-----

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

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}
-----

> ----- end _optlist.reset -----
- syntax [, EQOpts(namelist) EQARGopts(namelist) noNEEDVARLI
> ST COMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLOpts
> (namelist) RMDCOLLOpts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL W

```

```

> TYPES(string) IGNORENOCONS ]
    - .eq_opts_allowed.reset
    _____
> _____ begin _optlist.reset _____
    - version 9
    - .options = {}
    - .names = {}
    _____
> _____ end _optlist.reset _____
    - foreach opt of local eqopts {
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt NOCONSTant
    _____
> _____ begin _optlist.addopt _____
    - 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.addopt _____
    - }
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt FREEParm
    _____
> _____ begin _optlist.addopt _____
    - 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.addopt -----
- }
- foreach opt of local eqargopts {
- .eq_opts_allowed.addopt `opt', passthru
= .eq_opts_allowed.addopt OFFset, passthru
-----

> ----- begin _optlist.addopt -----
- 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.addopt -----
- }
- .eq_opts_allowed.addopt `opt', passthru
= .eq_opts_allowed.addopt EXPosure, passthru
-----

> ----- begin _optlist.addopt -----
- 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.addopt -----
- }
- local i 0
- foreach opt of local markopts {
  .mark_opts.addopt `opt', passthru

```

```

    }
    - local i 0
    - foreach opt of local smarkopts {
      .smark_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmcollopts {
      .rmcoll_opts.addopt `opt', passthru
    }
    - local i 0
    - foreach opt of local rmdcollopts {
      .rmdcoll_opts.addopt `opt', passthru
    }
    - .n_depvars.Arrdropall
    - if "`numdepvars'" != "" {
    = if "0" != "" {
      - foreach ndep of local numdepvars {
      - .n_depvars.Arrpush `ndep'
      = .n_depvars.Arrpush 0
      - }
      - }
      - else .n_depvars.Arrpush 1
      - .needequal = "`needequal'"
      = .needequal = "needequal"
      - .wtypes = "`wtypes'"
      = .wtypes = ""
      - .noneedvarlist = "`needvarlist'"
      = .noneedvarlist = "noneedvarlist"
      - .nocons_ignore = "`ignorenocons'"
      = .nocons_ignore = ""
    }
  }
}

> _____ end _eqlist._setup _____
> _____ end _eqlist.new _____
    - .`eqlist'.parse `spec'
    = .__000008.parse (piq_timing_max: piq_timing_max = wlth stky_p
> r_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, ) []
> _____ begin _eqlist.parse _____
    - version 9.2
    - .__init
> _____ begin _eqlist._init _____
    - version 9.2
    - .n_eq = 0
    - .gl_if = ""

```

```

- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}

```

---

```

> ----- end _eqlist._init -----
- local MARKOPLIST ```.mark_opts.dumpoptions'''

```

---

```

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

```

---

```

> ----- end _optlist.dumpoptions -----
= local MARKOPLIST `'''
- local SMARKOPLIST ```.smark_opts.dumpoptions'''

```

---

```

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

```

---

```

> ----- end _optlist.dumpoptions -----
= local SMARKOPLIST `'''
- local RMCOLLOPLIST ```.rmcoll_opts.dumpoptions'''

```

---

```

> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/0 {
  local optlist `optlist' `.options['i']'
}

```

```

- local optlist : list uniq optlist
- sreturn local optlist ``optlist'''
= sreturn local optlist `'''
- class exit ``optlist'''
= class exit `'''

> ----- end _optlist.dumpoptions -----
= local RMCOLLOPTLIST `'''
- local RMDCOLLOPTLIST ```.rmdcoll_opts.dumpoptions'''

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

> ----- end _optlist.dumpoptions -----
= local RMDCOLLOPTLIST `'''
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMAR
> KOPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )
= _parse expand EQ GL : 0, gweight common( COLLlinear )
- if `EQ_n' == 0 & ``.noneedvarlist' == "" {
= if 1 == 0 & "noneedvarlist" == "" {
    syntax varlist
}
- local rebind = `EQ_n' == 1
= local rebind = 1 == 1
- if `rebind' {
= if 1 {
    - tokenize ``0'', parse(",()[]")
    = tokenize ``(piq_timing_max: piq_timing_max = wlth stky_pr_ro
> temberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, ) []'', p
> arse(",()[]")
    - local rebind = ``1'' != "(" & ``2'' == "("
    = local rebind = ``( '' != "(" & ``piq_timing_max: piq_timing_m
> ax = wlth stky_pr_rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit
> stky_wg'' == "("
- }
- 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 `"ZER0' (`tok')"'
    }
    else {
      local ZERO `"(ZER0') (`tok') `0"'
      local 0
    }
  }
  else if inlist("`tok'", "if", "in", ",") {
    local ZERO `"(ZER0') `tok' `0"'
    local 0
  }
  else if inlist(substr("`tok'",1,1), "#", "|") {
    local ZERO `"ZER0'`tok'"
  }
  else {
    local ZERO `"ZER0' `tok'"
  }
}

_parse expand EQ GL : ZERO, gweight common( `MARKOPTLIST' `S
> MARKOPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )
}
- forval i = 1/`EQ_n' {
= forval i = 1/1 {
- if `i' <= `.n_depvars.arrnels' {
= if 1 <= 1 {
- local ndep = `.n_depvars[`i']'
= local ndep = 0
- }
- .eq_list[`i'] = .eqspec.new, numdepvars(`ndep') `.needequal
> ' `.noneedvarlist' wtypes(`.wtypes') `.nocons_ignore'
= .eq_list[1] = .eqspec.new, numdepvars(0) needequal noneedva
> rlist 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.new -----
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL
> 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.new -----
- .eq_list['i'].parse `.eq_opts_allowed.objkey':`EQ`i'
= .eq_list[1].parse __key(60000b9ffa40):piq_timing_max: piq_ti
> ming_max = wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bn
> kcrdit stky_wg

> ----- begin _eqspec.parse -----
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(60000b9ffa40):piq_timing_max: piq_ti
> ming_max = wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bn
> kcrdit stky_wg

```



```

> ----- begin _on_colon_parse -----
    - 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 ``__key(60000b9ffa40) == ":" {
    sreturn local after ``"after"
    exit
    }
    - while ``"COLON" != ":" & ``"after" != "" {
= while ``" != ":" & ``"piq_timing_max: piq_timing_max =
> wlth stky_pr_rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky
> _wg" != "" {
    - gettoken COLON after : after, parse(":") bind match(par)
> quotes
    - if "`par'" != "" {
= if "" != "" {
    local before `before' (`COLON')
    local COLON
    }
    - else if ``"COLON" != ":" {
= else if ``" != ":" {
    local before ``"before' `COLON"
    local COLON
    }
    - }
    - while ``"COLON" != ":" & ``"after" != "" {
= while ``" != ":" & ``"piq_timing_max: piq_timing_max =
> wlth stky_pr_rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky
> _wg" != "" {
    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 `__key(60000b9ffa40)"
    - sreturn local after `""after""
= sreturn local after `piq_timing_max: piq_timing_max = w
> lth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_
> wg""

-----
> ----- end _on_colon_parse -----
    - local ol `s(before)'
= local ol __key(60000b9ffa40)
    - if `:list sizeof ol' {
= if 1 {
    - local OPTLIST `""`ol'.dumpoptions""

-----
> ----- begin _optlist.dumpoptions -----
    - version 9
    - forval i = 1/`.options.arnels' {
= forval i = 1/4 {
    - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant
    - }
    - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam
    - }
    - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru)
    - }
    - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru) EXPos
> ure(passthru)
    - }
    - local optlist : list uniq optlist
    - sreturn local optlist `""optlist""
= sreturn local optlist `NOCONSTant FREEParam OFFSET(passthru) EXPosu
> hru) EXPosure(passthru)"
    - class exit `""optlist""
= class exit `NOCONSTant FREEParam OFFSET(passthru) EXPosu
> re(passthru)"

-----
> ----- end _optlist.dumpoptions -----

```

```

= local OPTLIST ``NOCONSTant FREEParM OFFset(passthru) EXPos
> ure(passthru)'''
- local OPTNAMES ```.ol'.dumpnames'''

> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/4 {
- local namelist `namelist' `.names['i']'
= local namelist noconstant
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset exposure
- }
- local namelist : list uniq namelist
- sreturn local namelist ``namelist'''
= sreturn local namelist ``noconstant freeparm offset expo

> sure'''
- class exit ``namelist'''
= class exit ``noconstant freeparm offset exposure'''

> ----- end _optlist.dumpnames -----
= local OPTNAMES ``noconstant freeparm offset exposure'''
- local NOCONS constant noconstant
- if ``:list NOCONS & OPTNAMES''' == "" {
= if ``noconstant''' == "" {
local NOCONS noCONSTant
}
- else local NOCONS
- }
- local 0 ``s(after)'''
= local 0 ``piq_timing_max: piq_timing_max = wlth stky_pr_ro
> temberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg'''
- if ``.wtypes''' != "" {
= if `''' != "" {
local wgt "[`.wtypes']"
}
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `N

> OCONS' *]
= syntax [anything(equalok)] [if] [in] [, NOCONSTant FREEPa

```

```

> rm OFFSET(passthru) EXPOSURE(passthru) *]
    - local HOLDIF ``if'''
    = local HOLDIF `'''
    - local HOLDIN ``in'''
    = local HOLDIN `'''
    - if ``wgt''' != "" & ``weight''' != "" {
    = if "" != "" & "" != "" {
        local HOLDWGT ``[weight`exp]'''
    }
    - gettoken NAME REST : anything, parse(":")
    - if trim("`NAME'") == ":" {
    = if trim("piq_timing_max") == ":" {
        di as err "nothing found where equation name expected"
        exit 198
    }
    - if `:list sizeof REST' {
    = if 11 {
        - if strpos("`NAME'", ":") {
        = if strpos("piq_timing_max", ":") {
            capture _msparse `NAME'
            if c(rc) {
                di as err "{bf:`NAME'} invalid equation specification"
                exit 198
            }
        }
    }
    - else {
    - ._confirm_eqname `NAME'
    = ._confirm_eqname piq_timing_max

```

---

```

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

```

---

```

> ----- end _eqspec._confirm_eqname -----
    - }

```

```

- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
  local NAME
  }
- gettoken DEPVARS REST : anything, parse("=") bind
- if "`DEPVARS'" == "=" {
= if "piq_timing_max " == "=" {
  local REST : copy local anything
  local DEPVARS
  }
- if (:length local DEPVARS' == 0 & `.n_depvars') {
= if (15 == 0 & 0) {
  di as err "nothing found where depvar expected"
  exit 198
  }
- if ``"REST"' == "" {
= if ``"= wlth stky_pr_rotemberg stky_pr_calvo wg_ndx open ot
> her_channel bnkcrdit stky_wg"' == "" {
  if 0`.needequal' {
  if `.needvarlist' | (:length local DEPVARS' != 0 & `.n_de
> pvars') {
  di as err "equal sign required to separate depvars from in
> depvars"

  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 piq_timing_max
- tsunab DEPVARs : `DEPVARs'
= tsunab DEPVARs : piq_timing_max
_____
> _____ begin tsunab _____
- 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 DEPVARs piq_timing_max
- local n : word count `varlist'
= local n : word count piq_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }
_____
> _____ end tsunab _____
- }
- if `:list sizeof INDEPVARs' {
= if 8 {
- fvunab INDEPVARs : `INDEPVARs'
= fvunab INDEPVARs : wlth stky_pr_rottemberg stky_pr_calvo w
> g_ndx open other_channel bnkcrdit stky_wg
_____
> _____ begin fvunab _____
- version 11
- _on_colon_parse `0'
= _on_colon_parse INDEPVARs : wlth stky_pr_rottemberg stky
> _pr_calvo wg_ndx open other_channel bnkcrdit stky_wg
_____
> _____ begin _on_colon_parse _____
- 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 stky_pr_rottemberg stky_p
> r_calvo wg_ndx open other_channel bnkcrdit stky_wg"' != "" {
- 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 ``:"' != ":" & `` wlth stky_pr_rottemberg stky_p
> r_calvo wg_ndx open other_channel bnkcrdit stky_wg"' != "" {
    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 ``INDEPVARs "'
- sreturn local after ``after'''
= sreturn local after `` wlth stky_pr_rottemberg stky_pr
> _calvo wg_ndx open other_channel bnkcrdit stky_wg"'

```

---

```

> ----- end _on_colon_parse -----
    - local 0 ``s(before)''
    = local 0 ``INDEPVARs ''
    - syntax name(id="macro name" name=user)
    - local 0 ``s(after)''
    = local 0 `` wlth stky_pr_rotemberg stky_pr_calvo wg_ndx
> open other_channel bnkcrdit stky_wg''
    - syntax [varlist(ts fv default=none)] [, MIN(integer 1) M
> AX(integer 32000) NAME(string) ]
    - c_local `user' `varlist'
    = c_local INDEPVARs wlth stky_pr_rotemberg stky_pr_calvo w
> g_ndx open other_channel bnkcrdit stky_wg
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
    = if (1 <= 8 & 8 <= 32000) exit
-----

> ----- end fvunab -----
    - }
    - if inlist("noconstant", "`noconstant'", "`constant'") {
    = if inlist("noconstant", "", "") {
        if ""INDEPVARs"" == "" & !`.nocons_ignore' {
            di as err "independent variables are required when option
> 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 FREEARM = ``freeparm'"" != ""
    = local FREEARM = `""' != ""
    - local OPTIONS
    - local SPACE
    - foreach OPTNAME of local OPTNAMES {
    - if ``OPTNAME'"" != "" {
    = if `""' != "" {

```



```

        local OPTIONS ``OPTIONS``SPACE``OPTNAME''''
        local SPACE " "
    }
- }
- if ````OPTNAME'''' != "" {
= if ```` != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME''''
    local SPACE " "
    }
- }
- if ````OPTNAME'''' != "" {
= if ```` != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME''''
    local SPACE " "
    }
- }
- if ````OPTNAME'''' != "" {
= if ```` != "" {
    local OPTIONS ``OPTIONS``SPACE``OPTNAME''''
    local SPACE " "
    }
- }
- if ````options'''' != "" {
= if ```` != "" {
    local OPTIONS ``OPTIONS``SPACE``options''''
    }
- .name = ``NAME''''
= .name = ``piq_timing_max''
- .depvars = ``DEPVARs''''
= .depvars = ``piq_timing_max''
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ``:list retok INDEPVARs''''
= .indepvars = ``wlth stky_pr_rotemberg stky_pr_calvo wg_ndx
> open other_channel bnkcrdit stky_wg''
- .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 = `""`
    }
}
- local MARKOPTLIST `""`.mark_opts.dumpoptions""

begin _optlist.dumpoptions
    - 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.dumpoptions

= local MARKOPTLIST `""`
- local MARKOPTNAMES `""`.mark_opts.dumpnames""

begin _optlist.dumpnames
    - 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.dumpnames

= local MARKOPTNAMES `""`
- local OPTLIST1 : substr local MARKOPTLIST "(passthru)" "(s
> tring asis)", all
- local SMARKOPTLIST `""`.smark_opts.dumpoptions""

```

```

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

> ----- end _optlist.dumpoptions -----
    = local SMARKOPTLIST `'''
    - local SMARKOPTNAMES ```.smark_opts.dumpnames'''

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

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

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

```

```

> ----- end _optlist.dumpoptions -----
    = local RMCOLLOPTLIST `""'
    - local RMCOLLOPTNAMES `""`rmcoll_opts.dumpnames`""'

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

> ----- end _optlist.dumpnames -----
    = local RMCOLLOPTNAMES `""'
    - local OPTLIST2 : substr local RMCOLLOPTLIST "(passthru)" "
> (string asis)", all
    - local RMDCOLLOPTLIST `""`rmdcoll_opts.dumpoptions`""'

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

> ----- end _optlist.dumpoptions -----
    = local RMDCOLLOPTLIST `""'
    - local RMDCOLLOPTNAMES `""`rmdcoll_opts.dumpnames`""'

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

```

```

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

> ----- end _optlist.dumpnames -----
    = local RMDCOLLOPTNAMES `""'
    - local OPTLIST3 : substr local RMDCOLLOPTLIST "(passthru)"
> "(string asis)", all
    - local 0 `", `GL_op'''
    = local 0 `", ""
    - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLli
> near 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 RMDCOLLOPTNAMES {
        if `:list sizeof `OPT'' {

```

```

        .rmcoll_list['++I'] = .eqspec.new, numdep(0) wtypes(`.wtype
> s')

        .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.parse 

---


- 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.eq -----
    - 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.eq -----
= local eq_n = 1
- global ML_n : copy local eq_n
- global ML_dim = `.`eqlist'.dim'

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

> ----- begin _eqlist.eq -----
    - 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.eq -----
= local neq = 1
- forval i = 1/`neq' {
= forval i = 1/1 {

```

```

- local xvarsi ```.eq indepvars `i'"""
-----
> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, indepvars
-----
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEparm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt
> ' `other' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
  error 198
}
- c_local `c_item' `item'
= c_local item indepvars
-----
> ----- end _eqspec._check_eq_item_name -----
- local value ```.`item'"""
= local value ``wlth stky_pr_rotemberg stky_pr_calvo wgnd
> x open other_channel bnkcrdit stky_wg'''
- sreturn local value ``value'''
= sreturn local value ``wlth stky_pr_rotemberg stky_pr_cal

```



```

> vo wg_ndx open other_channel bnkcrdit stky_wg''
      - class exit ``s(value)''
      = class exit ``wlth stky_pr_rottemberg stky_pr_calvo wg_ndx
> open other_channel bnkcrdit stky_wg''
      _____
> _____ end _eqspec.item _____
      - class exit ``s(value)''
      = class exit ``wlth stky_pr_rottemberg stky_pr_calvo wg_ndx o
> pen other_channel bnkcrdit stky_wg''
      _____

> _____ end _eqlist.eq _____
      = local xvarsi ``wlth stky_pr_rottemberg stky_pr_calvo wg_ndx o
> pen other_channel bnkcrdit stky_wg''
      - local noconsi ``.eq nocons `i''''
      _____

> _____ begin _eqlist.eq _____
      - 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.item _____
      - version 9.2
      - args item
      - ._check_eq_item_name item, `item'
      = ._check_eq_item_name item, nocons
      _____

> _____ begin _eqspec._check_eq_item_name _____
      - version 9.2
      - capture syntax name(name=c_item) [, NAME DEPvars INDEP
> vars IF IN WGT OTHER NOCONS OFFset EXPosure FREEParam 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 -----
- local value ```.item'''
= local value `""'
- sreturn local value ```.value'''
= sreturn local value `""'
- class exit ```.value'''
= class exit `""'

```

---

```

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

```

---

```

> ----- end _eqlist.eq -----
= local noconsi `""'
- local dim = `dim' + `:list sizeof xvarsi'
= local dim = + 8
- if ``noconsi' == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- sreturn local value ```.dim'''
= sreturn local value `".9"'
- class exit ```.s(value)'''
= class exit `".9"'

```

---

```

> ----- end _eqlist.dim -----
= global ML_dim = 9
- forval i = 1/`eq_n' {
= forval i = 1/1 {
- local depvars `.`eqlist'.eq depvars `i'

```

---

```

> ----- begin _eqlist.eq -----
- 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.item -----
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, depvars
}

> ----- begin _eqspec._check_eq_item_name -----
    - 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 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 -----
    - local value ```.`item'```
    = local value `piq_timing_max'
    - sreturn local value ```.`value'```
    = sreturn local value `piq_timing_max'
    - class exit ```.`value'```
    = class exit `piq_timing_max'
}

> ----- end _eqspec.item -----
    - class exit ```.s(value)```
    = class exit `piq_timing_max'
}

> ----- end _eqlist.eq -----
    = local depvars piq_timing_max
    - local eq `.`eqlist'.eq name `i'`

```

```

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, name

> ----- begin _eqspec._check_eq_item_name -----
- 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 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 -----
- local value ```.`item''''
= local value `piq_timing_max'
- sreturn local value ```.value'''
= sreturn local value `piq_timing_max'
- class exit ```.value'''
= class exit `piq_timing_max'

```

```

> ----- end _eqspec.item -----
- class exit ``s(value)''
= class exit ``piq_timing_max''

> ----- end _eqlist.eq -----
= local eq piq_timing_max
- if !`:length local eq' {
= if !14 {
  local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
  di as err "equation ``eq'' multiply defined"
  exit 110
}
- local eqnames `eqnames' `eq'
= local eqnames piq_timing_max
- fvexpand `.`eqlist'.eq indepvars `i'' if $ML_samp

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEParam 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_name -----
        - local value ```.`item'"""
        = local value `"wlth stky_pr_rotemberg stky_pr_calvo wg_ndx
> open other_channel bnkcrdit stky_wg"
        - sreturn local value ```.`value'"""
        = sreturn local value `"wlth stky_pr_rotemberg stky_pr_calvo
> wg_ndx open other_channel bnkcrdit stky_wg"
        - class exit ```.`value'"""
        = class exit `"wlth stky_pr_rotemberg stky_pr_calvo wg_ndx o
> pen other_channel bnkcrdit stky_wg"
    }
> ----- end _eqspec.item -----
        - class exit ```.s(value)"""
        = class exit `"wlth stky_pr_rotemberg stky_pr_calvo wg_ndx ope
> n other_channel bnkcrdit stky_wg"
    }
> ----- end _eqlist.eq -----
        = fvexpand wlth stky_pr_rotemberg stky_pr_calvo wg_ndx open othe
> r_channel bnkcrdit stky_wg if __000007
        - if "`r(tsops)'" == "true" {
        = if "" == "true" {
            global ML_preserve no
        }
        - local eq_rhs`i' ```.r(varlist)"""
        = local eq_rhs1 `"wlth stky_pr_rotemberg stky_pr_calvo wg_ndx op
> en other_channel bnkcrdit stky_wg"
        - local eq_nocons`i' ```.eqlist'.eq nocons `i'
    }
> ----- begin _eqlist.eq -----
        - 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.item -----
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, nocons
}

> ----- begin _eqspec._check_eq_item_name -----
    - 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 -----
    - local value ``.`item''''
    = local value ``0''
    - sreturn local value ``value'''
    = sreturn local value ``0''
    - class exit ``value'''
    = class exit ``0''
}

> ----- end _eqspec.item -----
    - class exit ``s(value)'''
    = class exit ``0''
}

> ----- end _eqlist.eq -----
    = local eq_nocons1 0

```

```

- local eq_offset `i' `.'eqlist'.eq offset `i''
> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, offset
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPva
> rs IF IN WGT OTHER NOCONS OFFset EXPosure FREEArm 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' `freearm' `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 -----
- local value ``'.`item''''
= local value `'''
- sreturn local value ``'value'''
= sreturn local value `'''
- class exit ``'value'''

```



```

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

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

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, exposure

> ----- begin _eqspec._check_eq_item_name -----
- 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 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 -----
        - local value ```.item'''
        = local value ``0''
        - sreturn local value ``value'''
        = sreturn local value ``0''
        - class exit ``value'''
        = class exit ``0''

    > ----- end _eqspec.item -----
        - class exit ``s(value)'''
        = class exit ``0''

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

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

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

    > ----- begin _eqspec._check_eq_item_name -----
        - 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 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 -----
        - local value ```.`item'"""
        = local value ``0""
        - sreturn local value ```value'"""
        = sreturn local value ``0""
        - class exit ```value'"""
        = class exit ``0""
    }
}

> ----- end _eqspec.item -----
        - class exit ```s(value)'"""
        = class exit ``0""
    }
}

> ----- end _eqlist.eq -----
        = local eq_freeparm1 0
        - local lhs `lhs' `depvars'
        = local lhs piq_timing_max
        - local eq_names `eq_names' `eq'
        = local eq_names piq_timing_max
        - local nxvars :list sizeof eq_rhs`i'
        = local nxvars :list sizeof eq_rhs1
        - local TMP : copy local eq_rhs`i'
        = local TMP : copy local eq_rhs1
        - forval j = 1/`nxvars' {
        = forval j = 1/8 {
            - gettoken xvar TMP : TMP
            - local colna ```colna' `eq':`xvar'"""
            = local colna `` piq_timing_max:wlth""
            - }
            - gettoken xvar TMP : TMP
            - local colna ```colna' `eq':`xvar'"""
            = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rote
> mberg""
        - }
        - gettoken xvar TMP : TMP
        - local colna ```colna' `eq':`xvar'"""
        = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rote

```

```

> mberg piq_timing_max:stky_pr_calvo''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar''''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rrote
> mberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar''''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rrote
> mberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open
> ''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar''''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rrote
> mberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open
> piq_timing_max:other_channel''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar''''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rrote
> mberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open
> piq_timing_max:other_channel piq_timing_max:bnkcrdit''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar''''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rrote
> mberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open
> piq_timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg
> ''
- }
- if `eq_freeparm`i'' {
= if 0 {
  if `nxvars' {
    di as err "{it:xvars} not allowed with option {bf:freeparm}"
    exit 198
  }
  if strpos(`eq''', ":") {
    local colna ``colna' /\`eq''''
  }
  else {
    local colna ``colna' /\`eq''''
  }
}
- else if !`eq_nocons`i'' {

```

```

= else if !0 {
- local colna ``colna' `eq':_cons''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rrote
> mberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open
> piq_timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg
> piq_timing_max:_cons''
- }
- if ``moptobj'' != "" {
= if "" != "" {
if ``eq_offset`i'' != "" {
if usubstr("eq_offset`i'",1,2)=="__" {
capture clonevar `moptobj'`eq_offset`i'' = `eq_offset`i''
local dropmetoo `dropmetoo' `moptobj'`eq_offset`i''
}
}
}
- }
- if ``moptobj'' != "" {
= if "" != "" {
foreach y of local lhs {
if usubstr("`y'",1,2)=="__" {
capture clonevar `moptobj'`y' = `y'
local tmp `tmp' `moptobj'`y'
local dropmetoo `dropmetoo' `moptobj'`y'
}
else {
local tmp `tmp' `y'
}
}
local lhs `tmp'
}
- if `waldtest' > 0 & `:length local lf0' {
= if -1 > 0 & 20 {
opts_exclusive "waldtest() lf0()"
}
- if `:length local continue' {
= if 0 {
if !`:length local init' {
tempname init
local ub0 `init'
}
else tempname ub0
mat `ub0' = e(b)
tempname v0 iv0
mat `v0' = e(V)
mat `iv0' = syminv(`v0')

```

```

global ML_rank0 = colsof(`v0') - diag0cnt(`iv0')
if !`:length local lf0' & !missing(e(ll)) {
local lf0 `=colsof(`ub0')' `e(ll)'
}
local ub0
}
- if `:length local init' {
= if 8 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000009 = J(1,9,0)
- matrix colna `b0' = `colna'
= matrix colna __000009 = piq_timing_max:wlth piq_timing_max:st
> ky_pr_rottemberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timin
> g_max:open piq_timing_max:other_channel piq_timing_max:bnkcredit piq_timing_m
> ax:stky_wg piq_timing_max:_cons
- `vv' _mkvec `b0', from(`init') update first error("initial vec
> tor")
= version 18: _mkvec __000009, from(__000006) update first error
> ("initial vector")

> ----- begin _mkvec -----
- 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 " "specified
> "

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 ve
> ctor"
  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.From -----
- gettoken from 0 : 0, parse(",") bind
- sret clear
- sret local from `from'
= sret local from __000006
- if ``0'!=' {
= if `!'!=' {
  syntax [, COPY SKIP ]
}
- sret local copy `copy'
= sret local copy
- sret local skip `skip'
= sret local skip
}

> ----- end _mkvec.From -----
- 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: "" "" __0000
> 06
_____
> _____ begin _mkvec.BuildMat _____
- 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.ChkMat _____
- 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''
> '
  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 " matri
> x(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.ChkMat -----

- 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.BuildMat -----

- if ``colname'"!=" " {
= if `piq_timing_max:wlth piq_timing_max:stky_pr_rottemberg pi
> q_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq_tim
> ing_max:other_channel piq_timing_max:bnkcredit piq_timing_max:stky_wg piq_tim
> ing_max:_cons'"!=" " {
- `vv' ChkNames `mat' "`matin'" ``colname'" ``error'" `sk
> ip'" `first'"
= version 18: ChkNames __00000A "__000009" `piq_timing_max:wl
> th piq_timing_max:stky_pr_rottemberg piq_timing_max:stky_pr_calvo piq_timing_

```

```
> max:wg_ndx piq_timing_max:open piq_timing_max:other_channel piq_timing_max:b
> nkcrdit piq_timing_max:stky_wg piq_timing_max:_cons"" `initial vector: "" "
> " "first"
```

---

```
> _____ begin _mkvec.ChkNames _____
    - local vv : display "version " string(_caller()) ":"
    - version 6
    - args mat matin names error skip first
    - local dim = colsof(matrix(`mat'))
    = local dim = colsof(matrix(__00000A))
    - if "`first'"!="" {
    = if "first"!=" {
    - gettoken name : names
    - local eq1 = bsubstr("`name'",1,index("`name'",":"))
    = local eq1 = bsubstr("`piq_timing_max:wlth'",1,index("`piq_
> timing_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(1,9,0)
    - local i 1
    - while `i' <= `dim' {
    = while 1 <= 9 {
    - mat `x' = `mat'[1,`i'..`i']
    = mat __00000D = __00000A[1,1..1]
    - local eq : coleq `x'
    = local eq : coleq __00000D
    - local name : colname `x'
    = local name : colname __00000D
    - if "`eq'" == "/" {
    = if "_" == "/" {
        local spec "/"`name'"
    }
    - else {
    - local spec "`eq':`name'"
    = local spec "_:wlth"
```

```

- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:wlth"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wlth, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec ``eq':`oname'
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000B,``_:wlth'')
- if `j' == . & ``oname' != "" {
= if 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==. & ``_'=="_" & ``piq_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1`name'')
  if `j' == . & ``oname' != "" {
    `vv' local j = colnumb(`new',``eq1`oname'')
  }
}
- if `j'!=. {
= if 1!=. {
- if `fill'[1,`j'] {
= if __00000C[1,1] {
  _ms_parse_parts `name'
  if !r(omit) {
    if "`eq'=="_" {
      di in red ``error'duplicate ' ' "entries for `name' found
> ""

    }
    else di in red ``error'"" "duplicate entries for `eq':`n
> ame' found""
exit 507

```

```

    }
    else if !missing(`new'[1,`j']) {
      matrix `mat'[1,`i'] = `new'[1,`j']
    }
  }
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,1] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,1] = __00000A[1,1]
- }
- else if "`skip'"==" {
= else if ""==" {
  if "`eq'"=="_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "' ``spec' found"' _n
> "specify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 1 + 1
- }
- while `i' <= `dim' {
= while 2 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,2..2]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
  local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "_:stky_pr_rottemberg"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:stky_pr_rottemberg"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit

```

```

= capture _msparse stky_pr_rottemberg, 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_rottembe

> rg''')

- if `j' == . & ``oname''' != "" {
= if 2 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec''')
}
- if `j' == . & ``sspec''' != "" {
= if 2 == . & "/_:stky_pr_rottemberg" != "" {
  `vv' local j = colnumb(`new',``sspec''')
}
- if `j'==. & ``eq''''=="_" & ``eq1''''!="" {
= if 2==. & ``_''''=="_" & ``piq_timing_max:''''!="" {
  `vv' local j = colnumb(`new',``eq1''`name''')
  if `j' == . & ``oname''' != "" {
    `vv' local j = colnumb(`new',``eq1''`oname''')
  }
}
- if `j'!=. {
= if 2!=. {
- if `fill'[1,`j'] {
= if __00000C[1,2] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq''''=="_" {
      di in red ``error'duplicate '' ``entries for `name' found

> ""

    }
    else di in red ``error'''' ``duplicate entries for `eq':`n

> ame' found'''

    exit 507
  }
  else if !missing(`new'[1,`j']) {
    matrix `mat'[1,`i'] = `new'[1,`j']
  }
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,2] = 1
- mat `new'[1,`j'] = `mat'[1,`i']

```

```

= mat __00000B[1,2] = __00000A[1,2]
- }
- else if "`skip'"==" " {
= else if ""==" " {
    if "`eq'"=="_" {
        local spec : copy local name
    }
    di in red ``error'extra parameter "' ``spec' found"' _n
> "specify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 2 + 1
- }
- while `i' <= `dim' {
= while 3 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,3..3]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:stky_pr_calvo"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:stky_pr_calvo"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_pr_calvo, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)'"
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')

```

```

= version 18: local j = colnumb(__00000B,`":stky_pr_calvo"
> )

- if `j' == . & "`oname'" != "" {
= if 3 == . & "" != "" {
  `vv' local j = colnumb(`new',`""ospec'")
}
- if `j' == . & "`sspec'" != "" {
= if 3 == . & "/_:stky_pr_calvo" != "" {
  `vv' local j = colnumb(`new',`""sspec'")
}
- if `j'==. & ""`eq'""=="_" & ""`eq1'""!="" {
= if 3==. & ""_""=="_" & ""piq_timing_max:""!="" {
  `vv' local j = colnumb(`new',`""eq1``name'")
  if `j' == . & "`oname'" != "" {
    `vv' local j = colnumb(`new',`""eq1``oname'")
  }
}
- if `j'!=. {
= if 3!=. {
- if `fill'[1,`j'] {
= if __00000C[1,3] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ""`eq'""=="_" {
      di in red ""`error'duplicate "'`"entries for `name' found
> ""
    }
    else di in red ""`error'"" "`duplicate entries for `eq':`n
> ame' found""

  exit 507
}
else if !missing(`new'[1,`j']) {
  matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,3] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,3] = __00000A[1,3]
- }
- else if ""`skip'""="" {
= else if ""="" {
  if ""`eq'""=="_" {
    local spec : copy local name
  }
  di in red ""`error'extra parameter "'`"spec' found"" _n

```

```

> "specify skip option if necessary"
    exit 111
  }
  - local i = `i' + 1
= local i = 3 + 1
  - }
  - while `i' <= `dim' {
= while 4 <= 9 {
  - mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,4..4]
  - local eq : coleq `x'
= local eq : coleq __00000D
  - local name : colname `x'
= local name : colname __00000D
  - if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
  }
  - else {
  - local spec "`eq':`name'"
= local spec "_: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(stripe)'"
    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==. & ``_'=="_" & ``piq_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1'`name'`)
  if `j' == . & ``oname' != "" {
    `vv' local j = colnumb(`new',``eq1'`oname'`)
  }
}
- if `j'!=. {
= if 4!=. {
- if `fill'[1,`j'] {
= if __00000C[1,4] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'=="_" {
      di in red ``error'duplicate "' `"'entries for `name' found
> "'
    }
    else di in red ``error'"" `"'duplicate entries for `eq':`n
> ame' found"'
  }
  exit 507
}
else if !missing(`new'[1,`j']) {
  matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,4] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,4] = __00000A[1,4]
- }
- else if ``skip'==" " {
= else if ""==" " {
  if ``eq'=="_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "' ``spec' found"' _n
> "specify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 4 + 1
- }
- while `i' <= `dim' {
= while 5 <= 9 {
- mat `x' = `mat'[1,`i'..`i']

```

```

= mat __00000D = __00000A[1,5..5]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
  }
- else {
- local spec "`eq':`name'"
= local spec "_: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 5 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & ``sspec'" != "" {
= if 5 == . & "/_:open" != "" {
    `vv' local j = colnumb(`new',``sspec'')
  }
- if `j'==. & ``eq'"=="_" & ``eq1'"!="" {
= if 5==. & ``_"=="_" & ``piq_timing_max:'"!="" {
    `vv' local j = colnumb(`new',``eq1``name'')
    if `j' == . & ``oname'" != "" {
      `vv' local j = colnumb(`new',``eq1``oname'')
    }
  }
- if `j'!=. {

```

```

= if 5!=. {
- if `fill'[1,`j'] {
= if __00000C[1,5] {
  _ms_parse_parts `name'
  if !r(omit) {
    if "`eq'"=="_" {
      di in red ``error'duplicate "'`"entries for `name' found
> "'
    }
    else di in red ``error'''' ``duplicate entries for `eq':`n
> ame' found'''
  }
  exit 507
}
else if !missing(`new'[1,`j']) {
  matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,5] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,5] = __00000A[1,5]
- }
- else if "`skip'"==" " {
= else if ""==" " {
  if "`eq'"=="_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "'`"spec' found'' _n
> "specify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 5 + 1
- }
- while `i' <= `dim' {
= while 6 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,6..6]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if "`eq'" == "/" {
= if "_" == "/" {
  local spec "/`name'"
}
}

```

```

- else {
- local spec "`eq':`name'"
= local spec "_:other_channel"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:other_channel"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse other_channel, 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,``_:other_channel'')

> )

- if `j' == . & ``oname' != "" {
= if 6 == . & "" != "" {
`vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec' != "" {
= if 6 == . & "/_:other_channel" != "" {
`vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 6==. & ``_"=="_" & ``piq_timing_max:''!="" {
`vv' local j = colnumb(`new',``eq1`name'')
if `j' == . & ``oname' != "" {
`vv' local j = colnumb(`new',``eq1`oname'')
}
}
- if `j'!=. {
= if 6!=. {
- if `fill'[1,`j'] {
= if __00000C[1,6] {
_ms_parse_parts `name'
if !r(omit) {
if "`eq'=="_" {
di in red ``error'duplicate "" ``entries for `name' found
> ""

```

```

    }
    else di in red ``error'' ``duplicate entries for `eq':`n
> ame' found''
    exit 507
  }
  else if !missing(`new'[1,`j']) {
    matrix `mat'[1,`i'] = `new'[1,`j']
  }
  }
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,6] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,6] = __00000A[1,6]
- }
- else if ``skip'')=="" {
= else if ""==" {
  if ``eq'')== "_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "' ``spec' found"' _n
> "specify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 6 + 1
- }
- while `i' <= `dim' {
= while 7 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,7..7]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if ``eq'')== "/" {
= if "_" == "/" {
  local spec "/`name'"
}
- else {
- local spec ``eq':`name'"
= local spec "_:bnkcrdit"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:bnkcrdit"
- }

```

```

- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse bnkcrdit, 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,``_:bnkcrdit'')
- if `j' == . & ``oname''' != "" {
= if 7 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec''')
}
- if `j' == . & ``sspec''' != "" {
= if 7 == . & "/_:bnkcrdit" != "" {
  `vv' local j = colnumb(`new',``sspec''')
}
- if `j'==. & ``eq'''=="_" & ``eq1'''!="" {
= if 7==. & ``_'=="_" & ``piq_timing_max:'''!="" {
  `vv' local j = colnumb(`new',``eq1``name''')
  if `j' == . & ``oname''' != "" {
    `vv' local j = colnumb(`new',``eq1``oname''')
  }
}
- if `j'!=. {
= if 7!=. {
- if `fill'[1,`j'] {
= if __00000C[1,7] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'''=="_" {
      di in red ``error'duplicate "'`"entries for `name' found
> "'
    }
    else di in red ``error''''`"duplicate entries for `eq':`n
> ame' found'''
  }
  exit 507
}
else if !missing(`new'[1,`j']) {
  matrix `mat'[1,`i'] = `new'[1,`j']
}
}
}

```

```

- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,7] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,7] = __00000A[1,7]
- }
- else if ``skip'""=="" {
= else if ""=="" {
    if ``eq'""=="_" {
        local spec : copy local name
    }
    di in red ``error'extra parameter "' ``spec' found"' _n
> "specify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 7 + 1
- }
- while `i' <= `dim' {
= while 8 <= 9 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,8..8]
- local eq : coleq `x'
= local eq : coleq __00000D
- local name : colname `x'
= local name : colname __00000D
- if ``eq'"" == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec ``eq':`name'"
= local spec "_:stky_wg"
- if (usubstr(`eq',1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:stky_wg"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_wg, 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_wg'')
- if `j' == . & ``oname' != '' {
= if 8 == . & '' != '' {
    `vv' local j = colnumb(`new',``ospec'')
    }
- if `j' == . & ``sspec' != '' {
= if 8 == . & "/_:stky_wg" != '' {
    `vv' local j = colnumb(`new',``sspec'')
    }
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 8==. & ``_"=="_" & ``piq_timing_max:'!="" {
    `vv' local j = colnumb(`new',``eq1``name'')
    if `j' == . & ``oname' != '' {
        `vv' local j = colnumb(`new',``eq1``oname'')
    }
}
- if `j'!=. {
= if 8!=. {
- if `fill'[1,`j'] {
= if __00000C[1,8] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ``eq'=="_" {
            di in red ``error'duplicate '' ``entries for `name' found
> ''

        }
        else di in red ``error'' ``duplicate entries for `eq':`n
> ame' found''

    exit 507
    }
    else if !missing(`new'[1,`j']) {
        matrix `mat'[1,`i'] = `new'[1,`j']
    }
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,8] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,8] = __00000A[1,8]
- }
- else if ``skip'=='' {
= else if ''=='' {
    if ``eq'=="_" {
        local spec : copy local name

```



```

    }
    di in red ``error'extra parameter "' ``spec' found"' _n
> "specify skip option if necessary"
    exit 111
  }
  - local i = `i' + 1
= local i = 8 + 1
  - }
  - while `i' <= `dim' {
= while 9 <= 9 {
  - mat `x' = `mat'[1,`i'..`i']
= mat __00000D = __00000A[1,9..9]
  - local eq : coleq `x'
= local eq : coleq __00000D
  - local name : colname `x'
= local name : colname __00000D
  - if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
  }
  - else {
  - local spec "`eq':`name'"
= local spec ":_cons"
  - if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
  - local sspec "/"`eq':`name'"
= local sspec "/_:_cons"
  - }
  - }
  - local oname
  - local ospec
  - capture _msparse `name', noomit
= capture _msparse _cons, noomit
  - if c(rc) == 0 {
  - if r(omit) {
    local oname ``r(stripe)'"
    local ospec "`eq':`oname'"
  }
  - }
  - `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000B,`:_cons'')
  - if `j' == . & "`oname'" != "" {
= if 9 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
  - if `j' == . & "`sspec'" != "" {

```

```

= if 9 == . & "/_:_cons" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 9==. & ``_'""=="_" & ``piq_timing_max:'""!="" {
  `vv' local j = colnumb(`new',``eq1'`name'')
  if `j' == . & ``oname'"" != "" {
    `vv' local j = colnumb(`new',``eq1'`oname'')
  }
}
- if `j'!=. {
= if 9!=. {
- if `fill'[1,`j'] {
= if __00000C[1,9] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'""=="_" {
      di in red ``error'duplicate "" ``entries for `name' found
> ""

    }
    else di in red ``error'"" ``duplicate entries for `eq':`n
> ame' found""

    exit 507
  }
  else if !missing(`new'[1,`j']) {
    matrix `mat'[1,`i'] = `new'[1,`j']
  }
}
- else mat `fill'[1,`j'] = 1
= else mat __00000C[1,9] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000B[1,9] = __00000A[1,9]
- }
- else if ``skip'""=="" {
= else if ""=="" {
  if ``eq'""=="_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "" ``spec' found"" _n
> "specify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 9 + 1
- }
- while `i' <= `dim' {

```

```

= while 10 <= 9 {
  mat `x' = `mat'[1,`i'..'i']
  local eq : coleq `x'
  local name : colname `x'
  if "`eq'" == "/" {
    local spec "/"`name'"
  }
  else {
    local spec "`eq':`name'"
    if (usubstr("`eq'",1,1) != "/") {
      local sspec "/"`eq':`name'"
    }
  }
  local oname
  local ospec
  capture _msparse `name', noomit
  if c(rc) == 0 {
    if r(omit) {
      local oname ``r(stripe)''
      local ospec "`eq':`oname'"
    }
  }
  `vv' local j = colnumb(`new',``spec'')
  if `j' == . & "`oname'" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
  if `j' == . & "`sspec'" != "" {
    `vv' local j = colnumb(`new',``sspec'')
  }
  if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
    `vv' local j = colnumb(`new',``eq1``name'')
  }
  if `j' == . & "`oname'" != "" {
    `vv' local j = colnumb(`new',``eq1``oname'')
  }
}
if `j'!=. {
  if `fill'[1,`j'] {
    _ms_parse_parts `name'
    if !r(omit) {
      if "`eq'""=="_" {
        di in red ``error'duplicate "" ``entries for `name' found
> ""

      }
      else di in red ``error'"" ``duplicate entries for `eq':`n
> ame' 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.ChkNames -----
- local fill `s(k_fill)'
= local fill 9
- }
- }
- }
- else {
  local fill 0
  if "`update'"!=" " {
    mat `mat' = `matin'
  }
  else if "`colname'"!=" " {
    local dim : list sizeof colname
    mat `mat' = J(1,`dim',0)
    `vv' mat colnames `mat' = `colname'
  }
  else {
    di in red "from() must be specified"
    exit 198
  }
}

```

```

    }
    - sret clear
    - sret local copy `copy'
    = sret local copy
    - sret local skip `skip'
    = sret local skip
    - sret local k = colsof(matrix(`mat'))
    = sret local k = colsof(matrix(__00000A))
    - if "`fill'"!="" {
    = if "9"!=" " {
    - sret local k_fill `fill'
    = sret local k_fill 9
    - }
    - else sret local k_fill = colsof(matrix(`mat'))
    = else sret local k_fill = colsof(matrix(__00000A))
    - matrix rename `mat' `matout', replace
    = matrix rename __00000A __000009, replace
  }
end _mkvec
>
- }
- tempname bomit
- matrix `bomit' = J(1,`:list sizeof colna',0)
= matrix __00000A = J(1,9,0)
- matrix colna `bomit' = `colna'
= matrix colna __00000A = piq_timing_max:wlth piq_timing_max:st
> ky_pr_rottemberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timin
> g_max:open piq_timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_m
> ax:stky_wg piq_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_parse _____
    - version 10
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(Cluster) optlist(OIM OPG Robust
> ) old : , robust
    _____
> _____ begin _on_colon_parse _____
    - 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 `', 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) 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 `":'"" != ":" & `", robust"" != "" {
    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 `", argoptlist(CLister) optlist(OIM 0

> PG Robust) old ""
    - sreturn local after ```after'""
= sreturn local after `", robust""

-----
> ----- end _on_colon_parse -----
    - local 0 ```s(before)'"
= local 0 `", argoptlist(CLister) optlist(OIM OPG Robust) old

> ""
    - local user ```s(after)'"
= local user `", robust""
    - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTli
> st(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'
= .__00000B.addopt OIM
_____
> _____ begin _optlist.addopt _____
- 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.addopt _____
- }
- .`o'.addopt `name'
= .__00000B.addopt OPG
_____
> _____ begin _optlist.addopt _____
- 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.addopt _____
- }
- .`o'.addopt `name'
= .__00000B.addopt Robust
_____
> _____ begin _optlist.addopt _____
- 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.addopt 

---


- }
- .`a' = ._optlist.new
= .__00000C = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- .`a'.addopt `name'
= .__00000C.addopt CCluster


---


> 

---

 begin _optlist.addopt 

---


- 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.addopt 

---


- }
- local OPTNAMES ```.`o'.dumpnames'''


---


> 

---

 begin _optlist.dumpnames 

---


- version 9
- forval i = 1/`.names.arnels' {
= 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.dumpnames -----
= local OPTNAMES `oim opg robust'
- local ARGOPTNAMES ```.a'.dumpnames'''

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

> ----- end _optlist.dumpnames -----
= local ARGOPTNAMES `cluster'
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
di as err "vcetype `:word 1 of `AND'' specified twice"
exit 198
}
- local pwallowed : list uniq pwallowed
- local pwlist robust cluster
- foreach n of local pwallowed {
local lc = lower("`n'")
local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust

```

```

- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
- }
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
- }
- }
- local 0 ``user'''
= local 0 `` , robust'''
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster'
> ]

= syntax [fw aw pw iw] [, VCE(string asis) Robust CLuster(varn
> ame) ]

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

```

> t"

```
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_parse
- 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 "__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 `eval
> type'"
            exit 198
        }
        - if `:length local crittype' == 0 {
= if 0 == 0 {
            - if inlist("`vce'", "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
            - local crittype "log pseudolikelihood"
            - }
            - else local crittype "log likelihood"
            - }

```

```

- global ML_waldtest `waldtest'
= global ML_waldtest -1
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {
        SetGlobalVar ML_w : _MLw
    }
    else {
        global ML_w : tempvar
        if ``moptobj' != "" {
            global ML_w `moptobj'$ML_w
        }
    }
}
- if `:length local weight' {
= if 0 {
    if ``moptobj' != "" {
        cap drop $ML_w
    }
    quietly gen double $ML_w `exp' if $ML_samp
    local wtype ``weight'
    local wexp ``exp'
    global ML_wtyp : copy local wtype
    global ML_wexp : copy local wexp
    if "`wtype'" == "iweight" | "`svy'" != "" {
        local zeroweight zeroweight
    }
}
- if inlist("`vce'", "svy", "cluster") {
= if inlist("robust", "svy", "cluster") {
    if `interactive' {
        SetGlobalVar ML_subv : _MLsu
    }
    else {
        global ML_subv : tempvar
        if ``moptobj' != "" {
            global ML_subv `moptobj'$ML_subv
        }
    }
}
- quietly count if $ML_sample
= quietly count if __000007
- if r(N) == 0 {
    error 2000
}
- if ``weight' != "" {

```

```

= if `""' != "" {
  quietly count if $ML_sample & $ML_w != 0
  if r(N) == 0 {
    di in gr "all observation have zero weights"
    exit 2000
  }
}
- if `:length local lf0' {
= if 20 {
- if `:list sizeof lf0' != 2 {
= if 2 != 2 {
  di as err "lf0(`lf0') invalid"
  exit 198
}
- global ML_k0 : word 1 of `lf0'
= global ML_k0 : word 1 of 1 -526.3044152481488
- global ML_ll_0 : word 2 of `lf0'
= global ML_ll_0 : word 2 of 1 -526.3044152481488
- confirm integer number $ML_k0
= confirm integer number 1
- confirm number $ML_ll_0
= confirm number -526.3044152481488
- if $ML_k0 < 0 {
= if 1 < 0 {
  di as err "lf0(`lf0') invalid"
  exit 198
}
- }
- if "`obs'" == "" {
= if "" == "" {
- if "`wtype'" != "fweight" {
= if "" != "fweight" {
- quietly count if $ML_sample
= quietly count if __000007
- local obs = r(N)
- }
- else {
  sum $ML_w if $ML_sample, mean
  local obs = r(sum)
}
- }
- if `:length local iterid' {
= if 0 {
  local iterid = trim(bsubstr("`iterid'",1,32))
}
- if `:length local crittype' {

```



```

= if 20 {
- local crittype = trim(bsubstr("`crittype'",1,32))
= local crittype = trim(bsubstr("`log pseudolikelihood'",1,32))
- }
- if `:length local derivscale' {
= if 0 {
confirm matrix `derivscale'
}
- if `:length local derivh' {
= if 0 {
confirm matrix `derivh'
}
- local l : strlen local deriv
- ParseUsemin, `deriv' len(`l')
= ParseUsemin, len(0)
}

> ----- begin mopt.ParseUsemin -----
- capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2 m
> issingokay) 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 ex
> clusive"
exit 198
}
- if "`min1'" != "" & "`nomin'" != "" {
= if `""' != "" & `""' != "" {
di as err "options {bf:min} and {bf:nomin} are mutually excl
> usive"
exit 198
}
- if (`min1'" != "") {
= if (`""' != "") {
if (_rc) {
capture confirm matrix `min1'
if (_rc) {
di as err "option {bf:min()} requires that either two number
> s 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 number
> s 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 number
> s or a 1X2 matrix be specified"
    exit 198
  }
  else if (`len' > length(```nomin''')) {
    di as err "options {bf:min()} and {bf:nomin} are mutually ex
> clusive"
    exit 198
  }
  else {
    local deriv 0
  }
}
- else {
- local deriv 0
- }
- }
- sreturn local deriv `deriv'
= sreturn local deriv 0

> ----- end mopt.ParseUsemin -----

- 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 -----

- version 10
- args name
- capture confirm name `name'

```

```

= capture confirm name poiss_lf
- if c(rc) {
  di as err "unrecognized command:  `name' invalid command na
> me"

  exit 199
}
- capture which `name'
= capture which poiss_lf
- if !c(rc) {
- exit
}

> ----- end mopt_check_program -----

- global ML_stat model
- if !`interactive' {
= if !0 {
- `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`mopt
> obj')

= version 18: MaxMin maximize, nooutput  search(off) moptobj()
}

> ----- begin mopt.MaxMin -----

- local vv : di "version " string(_caller()) ":"
- version 12
- ChkMacros
}

> ----- begin mopt.ChkMacros -----

- 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 hav
> e done something to drop" _n "temporary variables ml added to your data. Yo
> u must start again."
  Clear
  exit 111
}
}

> ----- end mopt.ChkMacros -----

- 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(numlist
> max=1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFficult HALFSTEPonly DOOPT
> SEARch(name) Repeat(passthru) Bounds(string) SCore(string) noWARning noCLEA

```

```

> R NOLog LOf DOTs SHOWTolerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GRAD
> ient 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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
      local ++n
      gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - if `:length local shownrtolerance' {
    = if 0 {
      local showtolerance showtolerance
    }
    - if "$ML_preserve" != "no" {
    = if "no" != "no" {
      if `:length local score' {
        di as smcl as err "May not specify {bf:score()} option unless
> s" _n "      a) estimation subsample is the entire data in memory, or" _n "
>      b) you specify option {bf:nopreserve} on {bf:ml model} statement (meaning
> " _n "      your evaluation program explicitly restricts itself to obs" _
> n "      for which {bf:$}" "{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_iterlog _____
    - 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_iterlog _____
    - 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 poiss_lf -----
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000L==. {
    exit
}
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __000000 = piq_timing_max - exp(__00000Q) if _

```

```

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

> _____ end poiss_lf _____
Iteration 0:  Log pseudolikelihood = -377.32684
> _____ begin poiss_lf _____
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 0 == 0 | __00000L==. {
- exit

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

> _____ end poiss_lf _____
> _____ begin poiss_lf _____
- version 6
- args todo b lnf g H score

```

```

- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000L==. {
  exit
}
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __000000 = piq_timing_max - exp(__00000Q) if _
> _000007
- $ML_ec mlvecsum `lnf' `g' = `score'
= * mlvecsum __00000L __00000M = __000000
- if `todo' == 1 | `lnf'==. {
= if 2 == 1 | __00000L==. {
  exit
}
- mlmatsum `lnf' `H' = exp(`xb')
= mlmatsum __00000L __00000N = exp(__00000Q)
_____
> _____ end poiss_lf _____
Iteration 1: Log pseudolikelihood = -375.1304
_____
> _____ begin poiss_lf _____
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsum __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 0 == 0 | __00000L==. {
- exit
_____
> _____ end poiss_lf _____
_____
> _____ begin poiss_lf _____
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K

```



```

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

> ----- end poiss_lf -----

> ----- begin poiss_lf -----

- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000L==. {
exit
}
}
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __000000 = piq_timing_max - exp(__00000Q) if _
> _000007

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

> ----- end poiss_lf -----
Iteration 2: Log pseudolikelihood = -375.12463

> ----- begin poiss_lf -----

- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)

```

```

- if `todo' == 0 | `lnf'==. {
= if 0 == 0 | __00000L==. {
- exit
}
}

> ----- end poiss_lf -----
}

> ----- begin poiss_lf -----
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 0 == 0 | __00000L==. {
- exit
}
}

> ----- end poiss_lf -----
}

> ----- begin poiss_lf -----
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000Q = __00000K
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000L = -exp(__00000Q) + __00000Q*piq_timing_max
> - lngamma(piq_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000L==. {
exit
}
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __000000 = piq_timing_max - exp(__00000Q) if _
> _000007
- $ML_ec mlevelsum `lnf' `g' = `score'
= * mlevelsum __00000L __00000M = __000000
- if `todo' == 1 | `lnf'==. {
= if 2 == 1 | __00000L==. {
exit
}
- mlmatsum `lnf' `H' = exp(`xb')
= mlmatsum __00000L __00000N = exp(__00000Q)
}
}

```

```

> _____ end poiss_lf _____
Iteration 3:  Log pseudolikelihood = -375.12463
> _____ begin mopt_post _____
    - args b V C wgt touse depvar
    - if `:length local touse' {
    = if 8 {
    - tempname esamp
    - quietly gen byte `esamp' = `touse'
    = quietly gen byte __00000S = __000007
    - }
    - ereturn post `b' `V' `C' `wt', esample(`esamp') depname(`
> depvar') buildfvinfo
    = ereturn post __00000Q __00000R [], esample(__00000S) depn
> ame(piq_timing_max) buildfvinfo
> _____ end mopt_post _____
    - ereturn scalar k_eq_model = abs($ML_waldtest)
    = ereturn scalar k_eq_model = abs(-1)
    - if `:length global ML_ll_0' {
    = if 18 {
    - ereturn scalar ll_0 = $ML_ll_0
    = ereturn scalar ll_0 = -526.3044152481488
    - if `:length global ML_rank0' {
    = if 0 {
    ereturn scalar rank0 = $ML_rank0
    ereturn scalar df_m = e(rank) - $ML_rank0
    }
    - else ereturn scalar df_m = e(rank) - $ML_k0
    = else ereturn scalar df_m = e(rank) - 1
    - }
    - if !`:length global ML_ll_0' | inlist(e(vce), "robust", "clu
> ster", "linearized") {
    = if !18 | inlist(e(vce), "robust", "cluster", "linearized") {
    - if "$ML_svy" == "" {
    = if "" == "" {
    - _prefix_model_test, minimum
> _____ begin _prefix_model_test _____
    - version 9
    - syntax [name(name=cmd)] [, svy noADJust noSVYadjust MINimu
> m ]
    - 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 __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 test -----
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit
}
- is_svy

```

---

```

> ----- begin is_svy -----
- 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 -----
>
- 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.WaldTest -----
>
- 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" "' "o
> ption 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 MINim
> um Mtest Mtest2(passthru) noTest COEF matvlg(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 combine
> d"

exit 198
}
if "`accumulate'" != "" {
di as err "options mtest and accumulate may not be com
> bined"

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
> 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_s
> trata))) {

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(lo
> cal nch)

```



```

- if `nch' > 0 {
= if 0 > 0 {
    di as err "=== invalid operator"
    exit 198
}
- local eqns : subinstr local eqns "==" "=", all
- ExpandExpns ``eqns'"" "`common'" "`constant'"
= ExpandExpns ``"[#1]""" "" ""

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

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

> ----- end test.Expand -----
- 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.ExpandExpns
- 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 __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')) * `ch
> i2'

    }
    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
> .2f `chi2'
= di as txt _col(12) "chi2(" %3.0f __00000V ") =" as res
> %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 __00
> 000W
- }
- 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 1
> 1:`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 t
> xt "*"

    }
    di as txt "{hline 7}{c +}{hline 30}"
    di as txt "    All {c |}" as res _col(12) %9.2f ``testt
> ype'' _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.WaldTest -----

- return add

> ----- end test -----

- if !c(rc) {
- if `:length local minimum' {
= if 7 {
- quietly test, min

> ----- begin test -----

- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
    AnovaTestChooser `0'
    return add
    exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
    MixedTestChooser `0'
    return add
    exit
}
- if _caller() < 8 {
    _test `0'
    return add
    exit
}
- is_svy

> ----- begin is_svy -----

- 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 -----
>
- local is_svy = r(is_svy)
- if replay() & `is_svy' == 0 {
= if replay() & 0 == 0 {
- _test `0'
= _test , min
- return add
- exit

----- end test -----
>
- }
- 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_test -----
- }
- else {
  _prefix_model_test, $ML_svy $ML_noadj
}
- }
- else if `:length global ML_ll_0' {
= else if 18 {
  if ``maxmin''' == "minimize" {
    ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
  }
  else {
    ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
  }
  ereturn scalar p = chi2tail(e(df_m), e(chi2))
  ereturn local chi2type "LR"
}
- if `:length global ML_wexp' {
= if 0 {
  ereturn local wtype ``$ML_wtyp''
  ereturn local wexp ``$ML_wexp''
}

```



```

    }
- if `:length global ML_group' {
= if 0 {
    ereturn local group `"$ML_group"'
    if ``"e(clustvar)'" == "$ML_grp" & "$ML_grp" != "" {
    ereturn local clustvar `"$ML_group"'
    }
}
- ereturn local cmd "ml"
- if `:length local score' {
= if 0 {
    mata: Mopt_score(0)
    ereturn local scorevars `scores'
}
- if "$ML_preserve" != "no" {
= if "no" != "no" {
    restore
    if ""e(prefix)'" == "svy" & e(N_strata_omit) {
    tempname v
    quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v
> ') subpop(`e(subpop)') touse($ML_sample)
    }
    ereturn repost, esample($ML_sample)
    }
- if ``"moptobj'" != "" {
= if `""' != "" {
    local clear noclear
}
- if !`:length local clear' {
= if !0 {
- Clear
}

> ----- begin mopt.Clear -----
- 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.Clear -----
    - }
    - 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.MaxMin -----
    - }

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

> ----- end mopt -----
    - exit

> ----- end ml -----
    - if "`score'" != "" {
  = if "" != "" {
    label var `scvar' "Score index from poisson"
    rename `scvar' `score'
    est local scorevars `score'
  }
  - est scalar r2_p = 1 - e(ll)/e(ll_0)
  - est hidden local gof "poiss_g"
  - est local offset "`offvar'"
  = est local offset ""
  - est local offset1
  - est local estat_cmd "poisson_estat"
  - est hidden local marginsderiv default N IR
  - est local predict "poisso_p"
  - est local cmd "poisson"
  - global S_E_ll = e(ll)
  - global S_E_ll0 `e(ll_0)'

```

```

= global S_E_ll0 -526.3044152481488
- global S_E_chi2 = e(chi2)
- global S_E_mdf = e(df_m)
- global S_E_pr2 `e(r2_p)'
= global S_E_pr2 .287247793920077
- global S_E_nobs = e(N)
- global S_E_tdf = e(N)
- global S_E_off `e(offset)'
= global S_E_off
- global S_E_depv `e(depvar)'
= global S_E_depv piq_timing_max
- global S_E_cmd `e(cmd)'
= global S_E_cmd poisson
- if "`display'"==" " {
= if "nodisplay"==" " {
    Display, `irr' level(`level') `diopts'
}
- error `e(rc)'
= error 0

```

---

```

> ----- end poisson.Estimate -----
- version 10: ereturn local cmdline `"poisson `0'"
= version 10: ereturn local cmdline `"poisson piq_timing_max wlth stky_p
> r_rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg [] if _
> _000000, nodisplay robust"

```

---

```

> ----- end poisson -----
- 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', `offopt'
> `constan' iter(1)
    tempname bp
    mat `bp' = e(b)
}
- if "`constan'"==" " & "`from'"==" " {
= if ""==" " & `""'==" " {
- if "`offset'"!=" " {

```

```

= if ""!=" {
  SolveC `y' `offset' [`weight'`exp'] if `touse', mean(`mean')
  local c = r(_cons)
}
- else local c = ln(`mean')
= else local c = ln(__000001)
- tempname b0 ll0
- if `c'<. {
= if .9126142571448463<. {
- mat `b0' = (`c', 0)
= mat __000003 = (.9126142571448463, 0)
- }
- else mat `b0' = (0, 0)
= else mat __000003 = (0, 0)
- mat colnames `b0' = `y':_cons ln`parm':_cons
= mat colnames __000003 = piq_timing_max:_cons lnalpha:_cons
- if "`weight'"=="aweight" {
= if ""=="aweight" {
  local wt `[aw`exp']"
}
- else if "`weight'"!=" {
= else if ""!=" {
  local wt `[iw`exp']"
}
- `nohead' di in gr _n "Fitting constant-only model:"
= di in gr _n "Fitting constant-only model:"

```

Fitting constant-only model:

```

- `vv' ml model `mm' `prog' (`yname': `y'=, `constan' `offopt') /ln`parm'
> if `touse' `wt', collinear missing max nooutput nopreserve wald(0) init(`b0'
> , copy) search(off) `mlopts' `robust' nocnsnotes `negh'
= version 18: ml model e2 nbreg_lf (piq_timing_max: piq_timing_max=, ) /l
> nalpha if __000000 , collinear missing max nooutput nopreserve wald(0) init(
> __000003, copy) search(off) robust nocnsnotes negh

```

---

```

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

```

---

```

> ----- begin mopt -----
- 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 (piq_timing_max: piq_timi
> ng_max=, ) /lnalpha if __000000 , collinear missing max nooutput nopreserve
> wald(0) init(__000003, copy) search(off) robust nocnsnotes negh

> ----- begin mopt.Model -----
    - 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] [, B
> RACKET COLLinear MISSing CONTinue lf0(string) INIT(string) CONSTraints(strin
> g) noCNSNOTes VCE(passthru) NEGh NOPREserve TECHnique(string) ITERID(string)
> CRITtype(string) OBS(numlist max=1 >0) TITle(string) WALDtest(integer -1) S
> VY SUBpop(string) SRSsubpop noSVYadjust SCore(passthru) noOUTput noSCVARS GR
> OUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIVSCAL

```

```

> E(string) DERIV(string) nrderiv GNWMATrix(string) KAUXiliary(numlist int >=0
> ) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru) mop
> tobj(string) USEVIEWS * ]
    - if ``moptobj''' == "" {
    = if `''' == "" {
    - Clear

> ----- begin mopt.Clear -----
    - 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.Clear -----
    - }
    - local maxmin `minimize' `maximize'
    = local maxmin maximize
    - opts_exclusive ``maxmin''
    = opts_exclusive "maximize"

> ----- begin opts_exclusive -----
    - 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_exclusive -----
- if `:length local maxmin' {
= if 8 {
- local interactive 0
- }
- else local interactive 1
- _get_diparmopts, diparmopts(`options') soptions syntaxonly
= _get_diparmopts, diparmopts(search(off)) soptions syntaxonly
}

> ----- begin _get_diparmopts -----
- 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 S
> YNTAXonly * ]
- local goptions `options'
= local goptions
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk ,
}

> ----- begin _get_diparmopts.SpliceGlobals -----
- syntax name(id="macro name" name=c_diparm) [, diparm(string as
> is) 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.SpliceGlobals
- 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') `syntaxononly' `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_diparmopts -----
- forval k = 1/`s(k)' {
= forval k = 1/0 {
    local diparm`k' ``s(diparm`k)'''
    }
- local ndiparm `s(k)'
= local ndiparm 0
- local options ``s(options)'''
= local options `"search(off)'"
- if `interactive' & `:length local options' {
= if 0 & 11 {
    local 0 , `options'
    syntax [, NOTANOPTION]
    }
- if `:length local nopreserve' | `:length local score' {
= if 10 | 0 {
- global ML_preserve no
- }
- else global ML_preserve yes
- gettoken evaltype spec : spec
- confirm name `evaltype'
= confirm name e2
- gettoken evaluator spec : spec
- global ML_evaltype : copy local evaltype
- if `:length local srssubpop' {
= if 0 {
    local 0 , srssubpop
    syntax [, NONOPTION]
    exit 198
    }
- if `:length local subpop' {
= if 0 {
    local svy svy
    }
- if `:length local svy' {
= if 0 {
    opts_exclusive "`vce' `svy'" vce
    if `:length local weight' {
    di as err "svy option not allowed with weights"
    exit 198
    }
    global ML_noadj : copy local svyadjust
    }

```

```

- global ML_svy : copy local svy
- if _caller() >= 15 & c(userversion) >= 15 {
- local fparm "", freeparm"
- }
- local eqspec : copy local spec
- local ieq 0
- while `:length local eqspec' {
= while 46 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim("`eq'"),1,1) == "/" {
= if bsubstr(trim("(piq_timing_max: piq_timing_max=,  )"),1,1) == "/"
> " {
    local eq = bsubstr(trim("`eq'"),2,.)
    local spec : subinstr local spec "/"`eq'" "("(`eq'":`fparm')"'', wor
> d
    }
- else {
- gettoken p1 p2 : eq, parse("(")")
- local p2 = trim("`p2'")
= local p2 = trim("`piq_timing_max: piq_timing_max=,  )'")
- if bsubstr("`p2'",1,1) == "," {
= if bsubstr("piq_timing_max: piq_timing_max=,  )",1,1) == "," {
    gettoken comma p2 : p2, parse(",")
    local p2 = trim("`p2'")
    }
- if "`p1'`p2'" == "(")" {
= if "("piq_timing_max: piq_timing_max=,  )" == "(")" {
    local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
    }
- }
- }
- while `:length local eqspec' {
= while 9 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim("`eq'"),1,1) == "/" {
= if bsubstr(trim("/lnalpha"),1,1) == "/" {
- local eq = bsubstr(trim("`eq'"),2,.)
= local eq = bsubstr(trim("/lnalpha"),2,.)
- local spec : subinstr local spec "/"`eq'" "("(`eq'":`fparm')"'', wor
> d
    = local spec : subinstr local spec "/lnalpha" "("("lnalpha":, freepar
> m)"', 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')'", wor
> d
}
else {
gettoken p1 p2 : eq, parse("()")
local p2 = trim("`p2'")
if bsubstr("`p2'",1,1) == "," {
gettoken comma p2 : p2, parse(",")
local p2 = trim("`p2'")
}
if "`p1'`p2'" == "()" {
local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
}
}
}
- if `interactive' {
= if 0 {
SetGlobalVar ML_sample : _MLtua
}
- else {
- global ML_sample : tempvar
- if ``moptobj' != "" {
= if `""' != "" {
global ML_sample `moptobj'$ML_sample
}
- }
- if ``moptobj' != "" {
= if `""' != "" {
cap drop $ML_sample

```

```

    }
    - `vv' mark $ML_sample `if' `in' [`weight'`exp'], `zeroweight'
    = version 18: mark __000005 if __000000 [],
    - tempname eqlist
    - `eqlist' = _eqlist.new, eqopts(NOCONSTant FREEParam) eqargopts(OF
> Fset EXPosure) noneedvarlist numdepvars(0) needequal
    = __000006 = _eqlist.new, eqopts(NOCONSTant FREEParam) eqargopts(OF
> Fset 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.new -----
    - version 9.2
    - _init

```

```

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

> ----- end _eqlist._init -----
- ._setup `0'
= ._setup , eqopts(NOCONSTant FREEParam) eqargopts(OFFset EXPosure)
> noneedvarlist numdepvars(0) needequal

> ----- begin _eqlist._setup -----
- version 9.2
- .mark_list = {}
- .mark_name = {}
- .mark_opts.reset

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}

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

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}

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

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}

```

```

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

> ----- begin _optlist.reset -----
    - version 9
    - .options = {}
    - .names = {}

> ----- end _optlist.reset -----
    - syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVARLIST C
> OMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLOpts(nam
> elist) RMDCOLLOpts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL WTYPE
> S(string) IGNORENOCONS ]
    - .eq_opts_allowed.reset

> ----- begin _optlist.reset -----
    - version 9
    - .options = {}
    - .names = {}

> ----- end _optlist.reset -----
    - foreach opt of local eqopts {
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt NOCONSTant

> ----- begin _optlist.addopt -----
    - 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.addopt -----
    - }
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt FREEParam

```

```

> ----- begin _optlist.addopt -----
    - 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.addopt -----
    - }
    - foreach opt of local eqargopts {
    - .eq_opts_allowed.addopt `opt', passthru
    = .eq_opts_allowed.addopt OFFset, passthru
-----

> ----- begin _optlist.addopt -----
    - 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.addopt -----
    - }
    - .eq_opts_allowed.addopt `opt', passthru
    = .eq_opts_allowed.addopt EXPosure, passthru
-----

> ----- begin _optlist.addopt -----
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower("`optspec'")
    = local mname = lower("EXPosure")
    - if "`passthru'" != "" {

```





```

> ----- end _eqlist.new -----
- .`eqlist'.parse `spec'
= .__000006.parse (piq_timing_max: piq_timing_max=, ) ("lnalpha":,
> freeparm)

> ----- begin _eqlist.parse -----
- version 9.2
- .__init

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

> ----- end _eqlist._init -----
- local MARKOPTLIST ```.mark_opts.dumpoptions'''

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

> ----- end _optlist.dumpoptions -----
= local MARKOPTLIST `'''
- local SMARKOPTLIST ```.smark_opts.dumpoptions'''

> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/0 {
  local optlist `optlist' `.options['i']'
}
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'''

```

```

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

> ----- end _optlist.dumpoptions -----

= local SMARKOPTLIST `""'
- local RMCOLLOPTLIST ```.rmcoll_opts.dumpoptions'''

> ----- begin _optlist.dumpoptions -----

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

> ----- end _optlist.dumpoptions -----

= local RMCOLLOPTLIST `""'
- local RMDCOLLOPTLIST ```.rmdcoll_opts.dumpoptions'''

> ----- begin _optlist.dumpoptions -----

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

> ----- end _optlist.dumpoptions -----

= local RMDCOLLOPTLIST `""'
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARKOPT
> LIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )
= _parse expand EQ GL : 0, gweight common( COLLlinear )
- 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' `SMARK
> OPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )
}
- forval i = 1/`EQ_n' {
= forval i = 1/2 {
- if `i' <= `.n_depvars.arrnells' {
= 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 noneedvarlis
> t 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.new -----
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL noNE
> EDVARLIST 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.new -----
- .eq_list['i'].parse `.eq_opts_allowed.objkey':`EQ_`i'
= .eq_list[1].parse __key(60000b9fba40):piq_timing_max: piq_timing
> _max=

```

```

> ----- begin _eqspec.parse -----
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(60000b9fba40):piq_timing_max: piq_timing
> _max=
    -----
> ----- begin _on_colon_parse -----
    - 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(60000b9fba40)' == ":" {
      sreturn local after `""after"'
      exit
    }
    - while `""COLON"' != ":" & `""after"' != "" {
    = while `""' != ":" & `":piq_timing_max: piq_timing_max=" !=
> "" {
    - 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 `":'" != ":" & `":piq_timing_max: piq_timing_max=" !=
> "" {
      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 ``__key(60000b9fba40)""
        - sreturn local after ``after'""
= sreturn local after ``piq_timing_max: piq_timing_max=""

> ----- end _on_colon_parse -----

        - local ol `s(before)'
= local ol __key(60000b9fba40)
        - if `:list sizeof ol' {
= if 1 {
        - local OPTLIST ``.ol'.dumpoptions'""

> ----- begin _optlist.dumpoptions -----

        - version 9
        - forval i = 1/`.options.arnels' {
= forval i = 1/4 {
        - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant
        - }
        - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam
        - }
        - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru)
        - }
        - local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru) EXPosure(
> passthru)
        - }
        - local optlist : list uniq optlist
        - sreturn local optlist ``optlist'""
= sreturn local optlist ``NOCONSTant FREEParam OFFSET(passthru)
> EXPosure(passthru)""
        - class exit ``optlist'""
= class exit ``NOCONSTant FREEParam OFFSET(passthru) EXPosure(p
> assthru)""

```

```

> ----- end _optlist.dumpoptions -----
      = local OPTLIST `NOCONSTant FREEParam OFFset(passthru) EXPosure(
> passthru)""
      - local OPTNAMES ```.ol'.dumpnames'''
> ----- begin _optlist.dumpnames -----
      - version 9
      - forval i = 1/`.names.arnels' {
      = forval i = 1/4 {
      - local namelist `namelist' `.names['i']'
      = local namelist noconstant
      - }
      - local namelist `namelist' `.names['i']'
      = local namelist noconstant freeparm
      - }
      - local namelist `namelist' `.names['i']'
      = local namelist noconstant freeparm offset
      - }
      - local namelist `namelist' `.names['i']'
      = local namelist noconstant freeparm offset exposure
      - }
      - local namelist : list uniq namelist
      - sreturn local namelist ``namelist'''
      = sreturn local namelist `noconstant freeparm offset exposure
> ""
      - class exit ``namelist'''
      = class exit `noconstant freeparm offset exposure'
> ----- end _optlist.dumpnames -----
      = local OPTNAMES `noconstant freeparm offset exposure'
      - local NOCONS constant noconstant
      - if ``:list NOCONS & OPTNAMES''' == "" {
      = if `noconstant' == "" {
        local NOCONS noCONSTant
      }
      - else local NOCONS
      - }
      - local 0 ``s(after)'''
      = local 0 `piq_timing_max: piq_timing_max=""
      - if ``.wtypes''' != "" {
      = if `''' != "" {
        local wgt "[.wtypes]"
      }
      - syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NOCON
> S' *]
      = syntax [anything(equalok)] [if] [in] [, NOCONSTant FREEParam 0

```



```

> FFset(passthru) EXPosure(passthru) *]
    - local HOLDIF ``if'''
    = local HOLDIF `'''
    - local HOLDIN ``in'''
    = local HOLDIN `'''
    - if ``wgt''' != '' & ``weight''' != '' {
    = if '' != '' & '' != '' {
        local HOLDWGT ``[weight`exp]'''
    }
    - gettoken NAME REST : anything, parse(":")
    - if trim("`NAME'") == ":" {
    = if trim("piq_timing_max") == ":" {
        di as err "nothing found where equation name expected"
        exit 198
    }
    - if `:list sizeof REST' {
    = if 2 {
        - if strpos("`NAME'", ":") {
        = if strpos("piq_timing_max", ":") {
            capture _msparse `NAME'
            if c(rc) {
                di as err "{bf:`NAME'} invalid equation specification"
                exit 198
            }
        }
    }
    - else {
    - ._confirm_eqname `NAME'
    = ._confirm_eqname piq_timing_max

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

> ----- end _eqspec._confirm_eqname -----
    - }

```

```

- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
  local NAME
  }
- gettoken DEPVARs REST : anything, parse("=") bind
- if "`DEPVARs'" == "=" {
= if "piq_timing_max" == "=" {
  local REST : copy local anything
  local DEPVARs
  }
- if (:length local DEPVARs' == 0 & `.n_depvars') {
= if (14 == 0 & 0) {
  di as err "nothing found where depvar expected"
  exit 198
  }
- if ``"REST"' == "" {
= if ``"=' == "" {
  if 0`.needequal' {
    if `.needvarlist' | (:length local DEPVARs' != 0 & `.n_depvar
> s') {
    di as err "equal sign required to separate depvars from indepv
> ars"
    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 piq_timing_max
- tsunab DEPVARs : `DEPVARs'
= tsunab DEPVARs : piq_timing_max
}

> ----- begin tsunab -----
- 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(int
> eger 32000) NAME(string)]
- c_local `user' `varlist'
= c_local DEPVARs piq_timing_max
- local n : word count `varlist'
= local n : word count piq_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }
}

> ----- end tsunab -----
- }
- if `:list sizeof INDEPVARs' {
= if 0 {
fvunab INDEPVARs : `INDEPVARs'
}
- if inlist("noconstant", "`noconstant'", "`constant'") {
= if inlist("noconstant", "", "") {
if "`INDEPVARs'" == "" & !`.nocons_ignore' {
di as err "independent variables are required when option noco
> nstant is specified"
exit 102
}
if "`NOCONS'" != "" {
local options `options' noconstant
}
local NOCONS 1
}
- else local NOCONS 0
- if ``offset'`exposure' != "" {
= if `""' != "" {
._check_offset, `offset' `exposure'
local OFFSET "`s(offset)'"
local EXPOSURE = ("`exposure'" != "")
local OTHER `s(offset)'

```

```

    }
- else local EXPOSURE 0
- local FREEPARM = ``freeparm''' != ""
= local FREEPARM = `''' != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if ``OPTNAME''' != "" {
= if `''' != "" {
    local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'''
    local SPACE " "
    }
- }
- if ``OPTNAME''' != "" {
= if `''' != "" {
    local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'''
    local SPACE " "
    }
- }
- if ``OPTNAME''' != "" {
= if `''' != "" {
    local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'''
    local SPACE " "
    }
- }
- if ``OPTNAME''' != "" {
= if `''' != "" {
    local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'''
    local SPACE " "
    }
- }
- if ``options''' != "" {
= if `''' != "" {
    local OPTIONS ``OPTIONS'`SPACE'`options'''
    }
- .name = ``NAME'''
= .name = `piq_timing_max'
- .depvars = ``DEPVARs'''
= .depvars = `piq_timing_max'
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ``:list retok INDEPVARs'''
= .indepvars = `'''
- .other_markvars = ``:list retok OTHER'''
= .other_markvars = `'''
- .nocons = `NOCONS'

```

```

= .nocons = 0
- .if = ``HOLDIF'''
= .if = `'''
- .in = ``HOLDIN'''
= .in = `'''
- .wgt = ``HOLDWGT'''
= .wgt = `'''
- .offset = ``OFFSET'''
= .offset = `'''
- .exposure = `EXPOSURE'
= .exposure = 0
- .freeparm = `FREEPARM'
= .freeparm = 0
- .options = ``OPTIONS'''
= .options = `'''

> ----- end _eqspec.parse -----
- }
- if `i' <= `.n_depvars.arnels' {
= 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 noneedvarlis
> t wtypes()

> ----- begin _eqspec.new -----
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL noNE
> EDVARLIST 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.new -----
- .eq_list['i'].parse `eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[2].parse __key(60000b9fba40):"lnalpha":, freeparm

> ----- begin _eqspec.parse -----
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(60000b9fba40):"lnalpha":, freeparm

> ----- begin _on_colon_parse -----
- 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(60000b9fba40)"' == ":" {
  sreturn local after `""after'"
  exit
}
- while `""COLON'" != ":" & `""after'" != "" {
= while `""' != ":" & `":lnalpha":, freeparm'" != "" {
- 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 `":'" != ":" & `":lnalpha":, freeparm'" != "" {
  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 `""__key(60000b9fba40)""
- sreturn local after `""`after'"
= sreturn local after `""lnalpha":, freeparm""

> _____ end _on_colon_parse _____

- local ol `s(before)'
= local ol __key(60000b9fba40)
- if `:list sizeof ol' {
= if 1 {
- local OPTLIST `""`.ol'.dumpoptions""

> _____ begin _optlist.dumpoptions _____

- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/4 {
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant
- }
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam
- }
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru)
- }
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru) EXPosure(
> passthru)
- }
- local optlist : list uniq optlist
- sreturn local optlist `""`optlist'"
= sreturn local optlist `""NOCONSTant FREEParam OFFSET(passthru)
> EXPosure(passthru)""
- class exit `""`optlist'"
= class exit `""NOCONSTant FREEParam OFFSET(passthru) EXPosure(p
> assthru)""

```

```

> ----- end _optlist.dumpoptions -----
= local OPTLIST ``NOCONSTant FREEParam OFFset(passthru) EXPosure(
> passthru)''
- local OPTNAMES ```.ol'.dumpnames'''
> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/4 {
- local namelist `namelist' `.names['i']'
= local namelist noconstant
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset exposure
- }
- local namelist : list uniq namelist
- sreturn local namelist ```namelist'''
= sreturn local namelist ``noconstant freeparm offset exposure
> ``
- class exit ```namelist'''
= class exit ``noconstant freeparm offset exposure''
> ----- end _optlist.dumpnames -----
= local OPTNAMES ``noconstant freeparm offset exposure''
- local NOCONS constant noconstant
- if ```:list NOCONS & OPTNAMES''' == '' {
= if ``noconstant''' == '' {
local NOCONS noCONSTant
}
- else local NOCONS
- }
- local 0 ``s(after)'''
= local 0 ``lnalpha":, freeparm''
- if ``.wtypes''' != '' {
= if ``''' != '' {
local wgt "[`.wtypes']"
}
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NOCON
> S' *]

```



```

= syntax [anything(equalok)] [if] [in] [, NOCONSTant FREEParam 0
> FFset(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 _msplice `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
    }
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname lnalpha
}

> ----- begin _eqspec._confirm_eqname -----
- 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_eqname -----

```

```

- }
- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
  local NAME
  }
- gettoken DEPVARS REST : anything, parse("=") bind
- if "`DEPVARS'" == "=" {
= if "" == "=" {
  local REST : copy local anything
  local DEPVARS
  }
- if (`:length local DEPVARS' == 0 & `.n_depvars') {
= if (0 == 0 & 0) {
  di as err "nothing found where depvar expected"
  exit 198
  }
- if ``"REST"' == "" {
= if `""' == "" {
- if 0`.needequal' {
= if 01 {
- if `.needvarlist' | (`:length local DEPVARS' != 0 & `.n_depvar
> s') {
= if 0 | (0 != 0 & 0) {
  di as err "equal sign required to separate depvars from indepv
> ars"
  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 {
  fvunab INDEPVARs : `INDEPVARs'
}
- if inlist("noconstant", "`noconstant'", "`constant'") {
= if inlist("noconstant", "", "") {
  if "`INDEPVARs'" == "" & !`.nocons_ignore' {
    di as err "independent variables are required when option noco
> nstant 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.parse -----
    - }
    - local MARKOPTLIST ```.mark_opts.dumpoptions'''
    > ----- begin _optlist.dumpoptions -----
        - version 9
        - forval i = 1/`.options.arnels' {
        = forval i = 1/0 {
            local optlist `optlist' `.options['i']'
        }
        - local optlist : list uniq optlist
        - sreturn local optlist ``optlist'''
        = sreturn local optlist `'''
        - class exit ``optlist'''
        = class exit `'''
    > ----- end _optlist.dumpoptions -----
        = local MARKOPTLIST `'''
        - local MARKOPTNAMES ```.mark_opts.dumpnames'''
    > ----- begin _optlist.dumpnames -----
        - version 9
        - forval i = 1/`.names.arnels' {
        = forval i = 1/0 {
            local namelist `namelist' `.names['i']'
        }
        - local namelist : list uniq namelist
        - sreturn local namelist ``namelist'''
        = sreturn local namelist `'''
        - class exit ``namelist'''
        = class exit `'''
    > ----- end _optlist.dumpnames -----
        = local MARKOPTNAMES `'''
        - local OPTLIST1 : substr local MARKOPTLIST "(passthru)" "(strin
> g asis)", all
        - local SMARKOPTLIST ```.smark_opts.dumpoptions'''
    > ----- begin _optlist.dumpoptions -----
        - version 9
        - forval i = 1/`.options.arnels' {
        = forval i = 1/0 {
            local optlist `optlist' `.options['i']'
        }

```

```

- local optlist : list uniq optlist
- sreturn local optlist ``optlist'''
= sreturn local optlist `'''
- class exit ``optlist'''
= class exit `'''

> ----- end _optlist.dumpoptions -----

= local SMARKOPTLIST `'''
- local SMARKOPTNAMES ```.smark_opts.dumpnames'''

> ----- begin _optlist.dumpnames -----

- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/0 {
    local namelist `namelist' `.names['i']'
}
- local namelist : list uniq namelist
- sreturn local namelist ``namelist'''
= sreturn local namelist `'''
- class exit ``namelist'''
= class exit `'''

> ----- end _optlist.dumpnames -----

= local SMARKOPTNAMES `'''
- local OPTLIST1s : substr local SMARKOPTLIST "(passthru)" "(str
> ing asis)", all
- local RMCOLLOPTLIST ```.rmcoll_opts.dumpoptions'''

> ----- begin _optlist.dumpoptions -----

- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/0 {
    local optlist `optlist' `.options['i']'
}
- local optlist : list uniq optlist
- sreturn local optlist ``optlist'''
= sreturn local optlist `'''
- class exit ``optlist'''
= class exit `'''

> ----- end _optlist.dumpoptions -----

= local RMCOLLOPTLIST `'''
- local RMCOLLOPTNAMES ```.rmcoll_opts.dumpnames'''

> ----- begin _optlist.dumpnames -----

- version 9

```

```

- forval i = 1/`.names.arnels' {
= forval i = 1/0 {
    local namelist `namelist' `.names[`i']'
    }
- local namelist : list uniq namelist
- sreturn local namelist ``namelist'''
= sreturn local namelist `'''
- class exit ``namelist'''
= class exit `'''

> ----- end _optlist.dumpnames -----
= local RMCOLLOPTNAMES `'''
- local OPTLIST2 : substr local RMCOLLOPTLIST "(passthru)" "(str
> ing asis)", all
- local RMDCOLLOPTLIST ```.rmdcoll_opts.dumpoptions'''

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

> ----- end _optlist.dumpoptions -----
= local RMDCOLLOPTLIST `'''
- local RMDCOLLOPTNAMES ```.rmdcoll_opts.dumpnames'''

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

> ----- end _optlist.dumpnames -----
= local RMDCOLLOPTNAMES `'''

```

```

- local OPTLIST3 : substr local RMDCOLLOPTLIST "(passthru)" "(st
> ring asis)", all
- local 0 "", `GL_op''
= local 0 "", ''
- syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLLlinear
> noCONSTant * ]
= syntax [, COLLlinear 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 RMDCOLLOPTNAMES {
    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.parse -----
- if ``subpop'' != "" & ``missing'' == "" {
= if "" != "" & "missing" == "" {
  if `interactive' {
    SetGlobalVar ML_samp : _MLtu
  }
  else {
    global ML_samp : tempvar
    if ``moptobj''' != "" {
      global ML_samp `moptobj'$ML_samp
    }
  }
  tempvar markuse
  _svy_setup $ML_sample $ML_samp, svy subpop(`subpop')
  quietly gen byte `markuse' = $ML_samp
}
- else global ML_samp $ML_sample
= else global ML_samp __000005
- if ``collinear'' == "" {
= if "collinear" == "" {
  .`eqlist'.rmcoll $ML_samp, replace `missing'
}
- else if ``missing'' == "" {
= else if "missing" == "" {
  .`eqlist'.markout $ML_samp, replace
}
- if "$ML_samp" != "$ML_sample" {
= if "__000005" != "__000005" {
  `vv' quietly replace $ML_sample = 0 if `markuse' & !$ML_samp
  drop `markuse'

```

```

    }
    - local eq_n = `.`eqlist'.eq count'
  }
}

> ----- begin _eqlist.eq -----
- 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.eq -----
= local eq_n = 2
- global ML_n : copy local eq_n
- global ML_dim = `.`eqlist'.dim'
}

> ----- begin _eqlist.dim -----
- version 9.2
- syntax
- local neq = `.`eq count'
}

> ----- begin _eqlist.eq -----
- 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.eq -----
= local neq = 2
- forval i = 1/`neq' {
= forval i = 1/2 {
- local xvarsi ```.eq indepvars `i'''
}

> ----- begin _eqlist.eq -----
- 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.item -----
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, indepvars
}

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

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

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

> ----- end _eqlist.eq -----
    = local xvarsi `'''
    - local noconsi ```.eq nocons `i'''

```

```

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons

> ----- begin _eqspec._check_eq_item_name -----
- 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 -----
- local value ```.`item''''
= local value ``0''
- sreturn local value ``value'''
= sreturn local value ``0''
- class exit ``value'''
= class exit ``0''

```

```

> ----- end _eqspec.item -----
- class exit ``s(value)''
= class exit ``0''

> ----- end _eqlist.eq -----
= local noconsi ``0''
- local dim = `dim' + `:list sizeof xvarsi'
= local dim = + 0
- if ``noconsi' == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- local xvarsi ``.eq indepvars `i''''

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, indepvars

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

```

```

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

```

---

```

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

```

---

```

> ----- end _eqspec.item -----
- class exit ```.s(value)```
= class exit ````

```

---

```

> ----- end _eqlist.eq -----
= local xvarsi ````
- local noconsi ```.eq nocons `i'```

```

---

```

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, nocons

```

---

```

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars

```

```

> IF IN WGT OTHER NOCONS OFFset EXPosure FREEParam 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 -----
    - local value ```.`item'"""
    = local value ``0""
    - sreturn local value ```value'"""
    = sreturn local value ``0""
    - class exit ```value'"""
    = class exit ``0""

> ----- end _eqspec.item -----
    - class exit ```s(value)"""
    = class exit ``0""

> ----- end _eqlist.eq -----
    = local noconsi ``0""
    - local dim = `dim' + `:list sizeof xvarsi'
    = 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.dim -----
    = global ML_dim = 2
    - forval i = 1/`eq_n' {
    = forval i = 1/2 {

```

```

- local depvars ``.eqlist'.eq depvars `i'
> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, depvars
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ``.item''
= local value ``piq_timing_max''
- sreturn local value ``value''
= sreturn local value ``piq_timing_max''
- class exit ``value''

```



```

= class exit `piq_timing_max"
> ----- end _eqspec.item -----
- class exit `s(value)''
= class exit `piq_timing_max"
> ----- end _eqlist.eq -----
= local depvars piq_timing_max
- local eq `.`eqlist'.eq name `i'
> ----- begin _eqlist.eq -----
- 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 -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, name
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 _____
    - local value ```.`item'"""
    = local value `"piq_timing_max"
    - sreturn local value ```.`value'"""
    = sreturn local value `"piq_timing_max"
    - class exit ```.`value'"""
    = class exit `"piq_timing_max"
    _____

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

> _____ end _eqlist.eq _____
    = local eq piq_timing_max
    - if !`:length local eq' {
    = if !14 {
        local eq eq`i'
    }
    - if `:list eq in eqnames' {
    = if 0 {
        di as err "equation ``eq'' multiply defined"
        exit 110
    }
    - local eqnames `eqnames' `eq'
    = local eqnames piq_timing_max
    - fvexpand `.`eqlist'.eq indepvars `i' if $ML_samp
    _____

> _____ begin _eqlist.eq _____
    - 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.item _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'

```

```

= ._check_eq_item_name item, indepvars
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item'```
= local value ````
- sreturn local value ```.value```
= sreturn local value ````
- class exit ```.value```
= class exit ````

> ----- end _eqspec.item -----
- class exit ```.s(value)```
= class exit ````

> ----- end _eqlist.eq -----
= 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.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, nocons
}

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item''''
= local value ``0'''
- sreturn local value ``value'''
= sreturn local value ``0'''
- class exit ``value'''
= class exit ``0'''
}

> ----- end _eqspec.item -----
- class exit ``s(value)'''
= class exit ``0'''

```

```

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

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, offset

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ``.item'''
= local value `'''

```

```

- sreturn local value ``value'''
= sreturn local value `'''
- class exit ``value'''
= class exit `'''

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

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

```

---

```

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 _____
    - local value ```.item'''
    = local value ``0'''
    - sreturn local value ``value'''
    = sreturn local value ``0'''
    - class exit ``value'''
    = class exit ``0'''
    _____
> _____ end _eqspec.item _____
    - class exit ``s(value)'''
    = class exit ``0'''
    _____
> _____ end _eqlist.eq _____
    = local eq_exposure1 0
    - local eq_freeparm`i' ``.eqlist'.eq freeparm `i''
    _____
> _____ begin _eqlist.eq _____
    - 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.item _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, freeparm
    _____
> _____ begin _eqspec._check_eq_item_name _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
    - local value ```.`item'"""
    = local value ``0""
    - sreturn local value ```value'"""
    = sreturn local value ``0""
    - class exit ```value'"""
    = class exit ``0""
}

> ----- end _eqspec.item -----
    - class exit ```s(value)'"""
    = class exit ``0""
}

> ----- end _eqlist.eq -----
    = local eq_freeparm1 0
    - local lhs `lhs' `depvars'
    = local lhs piq_timing_max
    - local eq_names `eq_names' `eq'
    = local eq_names piq_timing_max
    - local nxvars :list sizeof eq_rhs`i'
    = local nxvars :list sizeof eq_rhs1
    - local TMP : copy local eq_rhs`i'
    = local TMP : copy local eq_rhs1
    - forval j = 1/`nxvars' {
    = forval j = 1/0 {
        gettoken xvar TMP : TMP
        local colna ```colna' `eq':`xvar'"""
    }
    - if `eq_freeparm`i' {
    = if 0 {
        if `nxvars' {
            di as err "{it:xvars} not allowed with option {bf:freeparm}"
            exit 198
        }
    }
}

```



```

        if strpos("`eq'", ":") {
            local colna ``colna' /\`eq''
        }
        else {
            local colna ``colna' /\`eq''
        }
    }
- else if !`eq_nocons`i' {
= else if !0 {
- local colna ``colna' `eq':_cons''
= local colna ``piq_timing_max:_cons''
- }
- if "`moptobj'" != "" {
= if "" != "" {
    if "`eq_offset`i'" != "" {
        if usubstr("`eq_offset`i'",1,2)== "__" {
            capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
            local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
        }
    }
}
- }
- local depvars `.`eqlist'.eq depvars `i'

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, depvars

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I

```

```

> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 _____
    - local value ```.`item'```
    = local value ````
    - sreturn local value ```.value```
    = sreturn local value ````
    - class exit ```.value```
    = class exit ````

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

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

> _____ begin _eqlist.eq _____
    - 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.item _____

```

```

- version 9.2
- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, name

```

---

```

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item'``
= local value `"\lalpha"
- sreturn local value ```.`value'``
= sreturn local value `"\lalpha"
- class exit ```.`value'``
= class exit `"\lalpha"

```

---

```

> ----- end _eqspec.item -----
- class exit ```.s(value)``
= class exit `"\lalpha"

```

---

```

> ----- end _eqlist.eq -----
= local eq lalpha
- if !`:length local eq' {
= if !7 {
local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
di as err "equation ``eq'' multiply defined"
exit 110

```

```

    }
    - local eqnames `eqnames' `eq'
    = local eqnames piq_timing_max lnalpha
    - fvexpand `.`eqlist'.eq indepvars `i' if $ML_samp
  }
}

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, indepvars

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```.`item''''
= local value `'''

```

```

- sreturn local value ``value'''
= sreturn local value `'''
- class exit ``value'''
= class exit `'''

```

---

```

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

```

---

```

> ----- end _eqlist.eq -----
= fvexpand if __000005
- if ``r(tsops)'' == "true" {
= if "" == "true" {
  global ML_preserve no
}
- local eq_rhs`i' ``r(varlist)'''
= local eq_rhs2 `'''
- local eq_nocons`i' ``eqlist'.eq nocons `i''

```

---

```

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, nocons

```

---

```

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 _____
    - local value ```. `item'
    = local value ``0''
    - sreturn local value ``value''
    = sreturn local value ``0''
    - class exit ``value''
    = class exit ``0''
    _____
> _____ end _eqspec.item _____
    - class exit ``s(value)''
    = class exit ``0''
    _____
> _____ end _eqlist.eq _____
    = local eq_nocons2 0
    - local eq_offset`i' `.`eqlist'.eq offset `i''
    _____
> _____ begin _eqlist.eq _____
    - 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.item _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, offset
    _____

```

```

> ----- begin _eqspec._check_eq_item_name -----
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
    - local value ```.item''''
    = local value `''''
    - sreturn local value ```.value''''
    = sreturn local value `''''
    - class exit ```.value''''
    = class exit `''''
    -----

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

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

> ----- begin _eqlist.eq -----
    - 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, exposure
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item'```
= local value ``0```
- sreturn local value ```value'```
= sreturn local value ``0```
- class exit ```value'```
= class exit ``0```
> ----- end _eqspec.item -----
- class exit ```s(value)'```
= class exit ``0```
> ----- end _eqlist.eq -----
= local eq_exposure2 0
- local eq_freeparm`i' `.`eqlist'.eq freeparm `i'
> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, freeparm
}

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```.`item''''
= local value `1'''
- sreturn local value ```.value'''
= sreturn local value `1'''
- class exit ```.value'''
= class exit `1'''
}

> ----- end _eqspec.item -----
- class exit ```s(value)'''
= class exit `1'''

```

---

```

> _____ end _eqlist.eq _____
= local eq_freeparm2 1
- local lhs `lhs' `depvars'
= local lhs piq_timing_max
- local eq_names `eq_names' `eq'
= local eq_names piq_timing_max lnalpha
- local nxvars :list sizeof eq_rhs`i'
= local nxvars :list sizeof eq_rhs2
- local TMP : copy local eq_rhs`i'
= local TMP : copy local eq_rhs2
- forval j = 1/`nxvars' {
= forval j = 1/0 {
    gettoken xvar TMP : TMP
    local colna ``colna' `eq':`xvar'``
}
- if `eq_freeparm`i'' {
= if 1 {
- if `nxvars' {
= if 0 {
    di as err "{it:xvars} not allowed with option {bf:freeparm}"
    exit 198
}
- if strpos("`eq'","", ":") {
= if strpos("`lnalpha'", ":") {
    local colna ``colna' /`eq'``
}
- else {
- local colna ``colna' /:`eq'``
= local colna `` piq_timing_max:_cons /:lnalpha"
- }
- }
- else if !`eq_nocons`i'' {
= else if !0 {
    local colna ``colna' `eq':_cons"
}
- if "`moptobj'" != "" {
= if "" != "" {
    if "`eq_offset`i'" != "" {
    if usubstr("`eq_offset`i'",1,2)=="__" {
    capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
    local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
}
}
}
- }

```

```

- if "`moptobj'" != "" {
= if "" != "" {
  foreach y of local lhs {
    if usubstr("`y'",1,2)=="__" {
      capture clonevar `moptobj'`y' = `y'
      local tmp `tmp' `moptobj'`y'
      local dropmetoo `dropmetoo' `moptobj'`y'
    }
    else {
      local tmp `tmp' `y'
    }
  }
  local lhs `tmp'
}
- if `waldtest' > 0 & `:length local lf0' {
= if 0 > 0 & 0 {
  opts_exclusive "waldtest() lf0()"
}
- if `:length local continue' {
= if 0 {
  if !`:length local init' {
    tempname init
    local ub0 `init'
  }
  else tempname ub0
  mat `ub0' = e(b)
  tempname v0 iv0
  mat `v0' = e(V)
  mat `iv0' = syminv(`v0')
  global ML_rank0 = colsof(`v0') - diag0cnt(`iv0')
  if !`:length local lf0' & !missing(e(ll)) {
    local lf0 `=colsof(`ub0')' `e(ll)'
  }
  local ub0
}
- if `:length local init' {
= if 14 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __000007 = J(1,2,0)
- matrix colna `b0' = `colna'
= matrix colna __000007 = piq_timing_max:_cons /:lnalpha
- `vv' _mkvec `b0', from(`init') update first error("initial vector"
> )

= version 18: _mkvec __000007, from(__000003, copy) update first err

```

```

> or("initial vector")


---


> 

---

 begin _mkvec 

---


- 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 vector
> "
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.From 

---


- 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.From -----
- 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.CopyMat -----
- 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.ChkMat -----
- 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(co
> lsof(`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.ChkMat -----

    - }
    - 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.CopyMat -----
- if ``colname'!='' {
= if ``piq_timing_max:_cons /lnalpha'!='' {
- local dim : list sizeof colname
- if `dim' != colsof(matrix(`mat')) {
= if 2 != colsof(matrix(__000008)) {
    di in red ``error'matrix must '' be dimension '' `dim'
    exit 503
}
- `vv' mat colnames `mat' = `colname'
= version 18: mat colnames __000008 = piq_timing_max:_cons /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 _mkvec _____
- }
- tempname bomit
- matrix `bomit' = J(1,`:list sizeof colna',0)
= matrix __000008 = J(1,2,0)
- matrix colna `bomit' = `colna'
= matrix colna __000008 = piq_timing_max:_cons /:lnalpha
- _ms_omit_info `bomit'
= _ms_omit_info __000008
- if r(k_omit) | `:length local constraints' {
= if r(k_omit) | 0 {
  nobreak {
    capture noisily break {
      _b_post0 `colna'
      local clist : subinstr local constraints ", " " ", all
      `vv' makecns `clist', `cnsnotes'
      local constraints ``"r(clist)""
      local k_autoCns = e(k_autoCns)
      tempname C
      capture matrix `C' = e(Cns)
      local rcc = c(rc)
    }
    local rc = c(rc)
    ereturn clear
  }
  if (`rc') exit `rc'
  if (`rcc') {
    local C
    local k_autoCns
  }
}
- if `:length local constraints' {
= if 0 {
  local lf0

```



```

    }
    - local vce `vce' `robust' `cluster'
    = local vce robust
    - if `:length local vce' {
    = if 6 {
    - _vce_parse, argoptlist(Cluster) optlist(OIM OPG Robust) old : `wt'
> , `vce'
    = _vce_parse, argoptlist(Cluster) optlist(OIM OPG Robust) old : , ro
> bust

> ----- begin _vce_parse -----
    - version 10
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(Cluster) optlist(OIM OPG Robust) ol
> d : , robust

> ----- begin _on_colon_parse -----
    - 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 `"' != ":" & `": , robust"' != "" {
    - gettoken COLON after : after, parse(":") bind match(par) quote
> s
    - 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) quote

> s
    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(CLister) optlist(OIM OPG R
> robust) old ""
- sreturn local after ``after'''
= sreturn local after `", robust'''

----- end _on_colon_parse -----
>
- local 0 ``s(before)'''
= local 0 `", argoptlist(CLister) optlist(OIM OPG Robust) old ""
- local user ``s(after)'''
= local user `", robust'''
- syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist(n
> amelist) PWallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
- local touse `varlist'
= local touse
- tempname o a
- `.o' = ._optlist.new
= __000009 = ._optlist.new
- local optlist : list uniq optlist
- foreach name of local optlist {
- `.o'.addopt `name'
= __000009.addopt OIM

----- begin _optlist.addopt -----
>
- 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.addopt -----

- }
- .`o'.addopt `name'
= .__000009.addopt OPG

> ----- begin _optlist.addopt -----

- 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.addopt -----

- }
- .`o'.addopt `name'
= .__000009.addopt Robust

> ----- begin _optlist.addopt -----

- 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.addopt -----
- }
- .`a' = ._optlist.new
= __00000A = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- .`a'.addopt `name'
= __00000A.addopt CLuster

> ----- begin _optlist.addopt -----
- 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.addopt -----
- }
- local OPTNAMES ```.`o'.dumpnames'''

> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= 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.dumpnames -----
= local OPTNAMES `"oim opg robust"'
- local ARGOPTNAMES `""`a'.dumpnames'''

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

> ----- end _optlist.dumpnames -----
= local ARGOPTNAMES "cluster"
- local AND : list OPTNAMES & ARGOPTNAMES
- if `:list sizeof AND' {
= if 0 {
di as err "vcetype `:word 1 of `AND'' specified twice"
exit 198
}
- local pwallowed : list uniq pwallowed
- local pwlist robust cluster
- foreach n of local pwallowed {
local lc = lower("`n'")
local pwlist `pwlist' `lc'
}
- if "`old_is_ok'" != "" {
= if "old_is_ok" != "" {
- local ROBUST robust
- if `:list ROBUST in OPTNAMES' {
= if 1 {
- local robust Robust
- }
- local CLUSTER cluster
- if `:list CLUSTER in ARGOPTNAMES' {
= if 1 {
- local cluster CLuster(varname)
- }
- }
- local 0 `""user'''

```

```

= local 0 `` , robust''
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis) Robust CCluster(varname)
> ]

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

```

```

if "`name'" == "hc2" {
confirm var `args'
unab args : `args'
local markout `args'
}
return local vceargs ``':list retok args'''
}
else if `:list name in ARGOPTNAMES' {
if "`noargopt_is_ok'" == "" {
di as err "invalid vce() option"
exit 198
}
}
}
- else {
- if "`weight'" == "pweight" | "`robust'" != "" {
= if "" == "pweight" | "robust" != "" {
- local vce robust
- }
- if "`cluster'" != "" {
= if "" != "" {
local vce cluster
local args `cluster'
local markout `cluster'
}
- return local vce ``vce'''
= return local vce `robust'
- return local vceargs ``args'''
= return local vceargs `'''
- }
- if "`return(vce)'" != "" {
= if "robust" != "" {
- if ``return(vceargs)''' != "" {
= if `''' != "" {
local ss " "
}
- return local vceopt `vce(`return(vce)''ss''return(vceargs)')'''
= return local vceopt `vce(robust)'''
- }
- if "`return(vce)'" == "cluster" {
= if "robust" == "cluster" {
return local cluster `return(vceargs)'
}
- if inlist("`return(vce)'", "robust", "cluster") {
= if inlist("robust", "robust", "cluster") {
- return local robust robust

```

```

- }
- if "`touse'" != "" {
= if "" != "" {
  if "`markout'" != "" {
    markout `touse' `markout', strok
  }
}
}

```

---

> \_\_\_\_\_ end \_vce\_parse \_\_\_\_\_

```

- local vce `r(vce)'
= local vce robust
- }
- else if "`weight'" == "pweight" {
= else if "" == "pweight" {
  local vce robust
}
- if `:length local svy' {
= if 0 {
  local vce svy
}
- if ``"vce"' == "cluster" {
= if ``"robust"' == "cluster" {
  local cluster `r(cluster)'
  markout $ML_sample `cluster', strok
}
- if `:length local group' {
= if 0 {
  markout $ML_sample `group', strok
  global ML_group : copy local group
  if bsubstr("`type `group'",1,3) == "str" {
    if `interactive' {
      SetGlobalVar ML_grp : _MLgr
    }
    else {
      global ML_grp : tempvar
      if ``"moptobj"' != "" {
        global ML_grp `moptobj'$ML_grp
      }
    }
    quietly egen $ML_grp = group(`group')
    if ! `:length local cluster' {
      local cluster : copy global ML_grp
    }
  }
}
else {
  if ! `:length local cluster' {

```



```

        local cluster : copy global ML_group
    }
}
}
- if "$ML_samp" != "$ML_sample" {
= if "__000005" != "__000005" {
    quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
- if `:length local vce' == 0 {
= if 6 == 0 {
    if ``technique''' == "bhhh" {
        local vce opg
    }
    else local vce oim
}
- if inlist("`vce'", "robust", "cluster") & bsubstr("`evaltype'",1,1
> ) == "d" {
= if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1) == "d
> " {
    local optname = cond("`svy'"=="" , "vce(`vce')", "svy")
    di as err "option `optname' is not allowed with evaltype `evaltype
> '"

    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.ParseUsemin -----
- capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2 missi
> ngokay) 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 exclus
> ive"

exit 198
}
- if ``min'' != "" & ``nomin'' != "" {
= if ``'' != "" & ``'' != "" {
di as err "options {bf:min} and {bf:nomin} are mutually exclusiv
> e"

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 exclus
> ive"

```

```

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

```

---

```

> ----- end mopt.ParseUsemin -----
- 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 -----
- 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 -----
- global ML_stat model
- if !`interactive' {
= if !0 {
- `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptobj'
> )
= version 18: MaxMin maximize, nooutput  search(off) moptobj()

```

---

```

> ----- begin mopt.MaxMin -----
- local vv : di "version " string(_caller()) ":"

```

```

- version 12
- ChkMacros

```

---

```

> ----- begin mopt.ChkMacros -----
- 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 do
> ne something to drop" _n "temporary variables ml added to your data. You mu
> st start again."
  Clear
  exit 111
}

```

---

```

> ----- end mopt.ChkMacros -----
- syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0) LT
> OLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) QTOL
> Lerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numlist max
> =1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly DOOPT SEA
> rch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNING noCLEAR NO
> LOf LOf DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GRADient
> 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - 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_iterlog -----
    - 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_iterlog -----
- local log "`s(nolog)'"
= local log ""
- local tropts `log' `dots' `showtolerance' `showstep' `trace' `co
> efdiffs'
= 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_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000Q = __00000J, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000R = __00000J, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsun `lnf' = -lgamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsun `lnf' = lgamma(`m'+`y') - lgamma(`y'+1) - lgamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __00000K = lgamma(__00000S+piq_timing_max) - lgamma(pi
> q_timing_max+1) - lgamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piqu_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 __000005
- if `lnalpha'<-20 {
= if __00000R<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp

```

```

        replace `sc2' = 0 if $ML_samp
    }
    - else {
    - replace `sc1' = `p'*(`y'-'mu') if $ML_samp
    = replace __00000N = __00000V*(piq_timing_max-__00000U) if __000
> 005
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p')
> ) + `p'*(`y'-'mu') if $ML_samp
        = replace __000000 = __00000S*(digamma(__00000S) - digamma(piq_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(piq_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*__000
> 00V*(piq_timing_max-__00000U)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'mu'), eq(1,2)
        = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(piq_timing
> _max+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__00000V

```

```

> *(piq_timing_max-__00000U)- 1), eq(2)
    - }
    - matrix `H' = (`d11',`d12' \ `d12'',`d22')
    = matrix __00000M = (__00000X,__00000Y \ __00000Y',__00000Z)
    _____
> _____ end nbreg_lf _____
Iteration 0:  Log pseudolikelihood =  -455.8057
    _____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000Q = __00000J, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piqu_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000K==. { exit }
    _____
> _____ end nbreg_lf _____
    _____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000Q = __00000J, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000R = __00000J, eq(2) scalar

```

```

- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
    - }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000K==. { exit }

> _____ end nbreg_lf _____
> _____ begin nbreg_lf _____

- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000Q = __00000J, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000R = __00000J, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
    - }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __00000K==. { exit }

```

```

> _____ end nbreg_lf _____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000Q = __00000J, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piq_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __00000K==. { exit }
        - 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 __000005
        - if `lnalpha'<-20 {
        = if __00000R<-20 {
            replace `sc1' = `y'-`mu' if $ML_samp
            replace `sc2' = 0 if $ML_samp
        }
        - else {
        - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
        = replace __00000N = __00000V*(piq_timing_max-__00000U) if __000
> 005
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))

```

```

> ) + `p*(`y'-`mu') if $ML_samp
      = replace __000000 = __00000S*(digamma(__00000S) - digamma(piq_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(piq_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*__000
> 00V*(piq_timing_max-__00000U)+1), eq(1)
          - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
          = mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(piq_timing
> _max+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__00000V
> *(piq_timing_max-__00000U)- 1), eq(2)
          - }
          - matrix `H' = (`d11', `d12' \ `d12'', `d22')
          = matrix __00000M = (__00000X, __00000Y \ __00000Y', __00000Z)
      }
      _____
> _____ end nbreg_lf _____
Iteration 1: Log pseudolikelihood = -442.72954

```

```

> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000Q = __00000J, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000R = __00000J, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piqu_timing_max*ln1p(exp(-__00000Q-__00000R))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __00000K==. { exit }

> ----- end nbreg_lf -----

> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000Q = __00000J, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000R = __00000J, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000S = exp(-__00000R)
- if `lnalpha' < -20 {
= if __00000R < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'

```

```

    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piqu_timing_max*ln1p(exp(-__00000Q-__00000R))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __00000K==. { exit }
    }
}
> ----- end nbreg_lf -----
> ----- begin nbreg_lf -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000Q = __00000J, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000R = __00000J, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000S = exp(-__00000R)
    - if `lnalpha' < -20 {
    = if __00000R < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __00000K = lngamma(__00000S+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000S) - __00000S*ln1p(exp(__00000Q+__00000R))
> - piqu_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 __00000S
    - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
    = gen double __00000V = 1/(1+exp(__00000Q+__00000R)) if __00000S

```



```

- if `lnalpha'<-20 {
= if __00000R<-20 {
  replace `sc1' = `y'-'mu' if $ML_samp
  replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-'mu') if $ML_samp
= replace __00000N = __00000V*(piq_timing_max-__00000U) if __000
> 005
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))
> ) + `p'*(`y'-'mu') if $ML_samp
= replace __000000 = __00000S*(digamma(__00000S) - digamma(piq_t
> iming_max+__00000S) - ln(__00000V)) + __00000V*(piq_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*__000
> 00V*(piq_timing_max-__00000U)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'mu'), eq(1,2)
= mlmatsum __00000K __00000Y = __00000W*__00000U*__00000V^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000S) - ln(__00000V) - __00000S*(trigamma(piq_timing
> _max+__00000S) - trigamma(__00000S))) + __00000U*__00000V*(__00000W*__00000V
> *(piq_timing_max-__00000U)- 1), eq(2)
- }
- matrix `H' = (`d11', `d12' \ `d12'', `d22')
= matrix __00000M = (__00000X, __00000Y \ __00000Y', __00000Z)
_____
> _____ end nbreg_lf _____
Iteration 2: Log pseudolikelihood = -442.72952
_____
> _____ begin mopt_post _____
- 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(`depv
> ar') buildfvinfo
= ereturn post __00000Q __00000R [], esample(__00000S) depname(
> piq_timing_max) buildfvinfo
_____
> _____ end mopt_post _____
- 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) - $ML_k0
}
- if !`:length global ML_ll_0' | inlist(e(vce), "robust", "cluster
> ", "linearized") {
= if !0 | inlist(e(vce), "robust", "cluster", "linearized") {
- if "$ML_svy" == "" {
= if "" == "" {
- _prefix_model_test, minimum
_____
> _____ begin _prefix_model_test _____
- 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_test 

---


- }
- else {
  _prefix_model_test, $ML_svy $ML_noadj
}
- }
- else if `:length global ML_ll_0' {
= else if 0 {
  if ``maxmin' == "minimize" {
    ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
  }
  else {
    ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
  }
  ereturn scalar p = chi2tail(e(df_m), e(chi2))
}

```

```

        ereturn local chi2type "LR"
    }
    - if `:length global ML_wexp' {
= if 0 {
        ereturn local wtype `"$ML_wtyp"'
        ereturn local wexp `"$ML_wexp"'
    }
    - if `:length global ML_group' {
= if 0 {
        ereturn local group `"$ML_group"'
        if ``"e(clustvar)'" == "$ML_grp" & "$ML_grp" != "" {
            ereturn local clustvar `"$ML_group"'
        }
    }
    - ereturn local cmd "ml"
    - if `:length local score' {
= if 0 {
        mata: Mopt_score(0)
        ereturn local scorevars `scores'
    }
    - if "$ML_preserve" != "no" {
= if "no" != "no" {
        restore
        if ""e(prefix)'" == "svy" & e(N_strata_omit) {
            tempname v
            quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v') s
> ubpop(`e(subpop)') touse($ML_sample)
        }
        ereturn repost, esample($ML_sample)
    }
    - if ``"moptobj'" != "" {
= if `""' != "" {
        local clear noclear
    }
    - if !`:length local clear' {
= if !0 {
    - Clear

> ----- begin mopt.Clear -----
    - 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.Clear _____
    - }
    - 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.MaxMin _____
    - }
    _____
> _____ end mopt.Model _____
    - if c(rc) {
        local rc = c(rc)
        Clear
        exit `rc'
    }
    - exit
    _____
> _____ end mopt _____
    - exit
    _____
> _____ end ml _____
    - mat `b0' = e(b)
    = mat __000003 = e(b)
    - scalar `ll0' = e(ll)
    = scalar __000004 = e(ll)
    - local continu "continue"
    - }
    - if ```from'""'=="" {
    = if `""'=="" {
    - if ""`constan'""'=="" {
    = if ""=="" {
    - local dim = colsof(`bp')

```

```

= local dim = colsof(__000002)
- if `dim' > 1 {
= if 9 > 1 {
- tempvar xb
- qui mat score `xb' = `bp' if `touse'
= qui mat score __000005 = __000002 if __000000
- if "`weight'"!="" {
= if ""!="" {
    local wt `[aw`exp']"'
}
- summarize `xb' `wt' if `touse', meanonly
= summarize __000005 if __000000, meanonly
- if "`offset'"!="" {
= if ""!="" {
    qui replace `xb' = `xb' + `b0'[1,1] - r(mean) + `offset'
}
- else {
- qui replace `xb' = `xb' + `b0'[1,1] - r(mean)
= qui replace __000005 = __000005 + __000003[1,1] - r(mean)
- }
- mat `bp'[1,`dim'] = `bp'[1,`dim'] + `b0'[1,1] - r(mean)
= mat __000002[1,9] = __000002[1,9] + __000003[1,1] - r(mean)
- mat `bp' = (`bp', `b0'[1,2..2])
= mat __000002 = (__000002, __000003[1,2..2])
- `LLprog' `y' `xb' `b0'[1,2] [`weight'`exp'] if `touse', nobs(`r(N)')
= LLalpha piq_timing_max __000005 __000003[1,2] [] if __000000, nobs(218)

```

---

```

> ----- begin nbreg.LLalpha -----
- gettoken y 0 : 0
- gettoken z 0 : 0
- gettoken b0 0 : 0
- syntax [fw aw pw iw] [if], Nobs(string)
- if "`weight'"!="" {
= if ""!="" {
    if "`weight'"=="fweight" {
        local wt `[fw`exp']"'
    }
    else local wt `[aw`exp']"'
}
- tempname lnalpha m
- scalar `lnalpha' = `b0'
= scalar __000006 = __000003[1,2]
- local bound -20
- if `lnalpha' < `bound' { scalar `lnalpha' = `bound' }
= if __000006 < -20 { scalar __000006 = -20 }
- scalar `m' = exp(-`lnalpha')

```

```

    = scalar __000007 = exp(-__000006)
    - qui replace `z' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m') - `
> m'*ln1p(exp(`z'+`lnalpha')) - `y'*ln1p(exp(-`z'-`lnalpha')) `if'
    = qui replace __000005 = lngamma(__000007+piq_timing_max) - lngamma(piq_
> timing_max+1) - lngamma(__000007) - __000007*ln1p(exp(__000005+__000006)) -
> piq_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) != 218 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)

```

---

```

> _____ end nbreg.LLalpha _____
    - if r(lnf) > `ll0' & r(lnf)<. {
    = if r(lnf) > __000004 & r(lnf)<. {
    - local initopt "init(`bp')"
    = local initopt "init(__000002)"
    - }
    - }
    - if "`initopt'"==" " {
    = if "init(__000002)"==" " {
        local initopt "init(`b0')"
    }
    - }
    - else {
        tempname b0
        mat `b0' = (0)
        if _caller() < 15 {
            mat colnames `b0' = ln`parm':_cons
        }
        else {
            mat colnames `b0' = /ln`parm'
        }
        mat `bp' = (`bp',`b0')
        local initopt "init(`bp')"
    }
    - `nohead' di in gr _n "Fitting full model:"
    = di in gr _n "Fitting full model:"

```

Fitting full model:

```

- }
- else local initopt `"init(`from')"'
= else local initopt `"init()"'
- `vv' ml model `mm' `prog' (`yname': `y'=`xvars', `constan' `offopt') /ln
> `parm' if `touse' [`weight'`exp'], collinear missing max nooutput nopreserve
> `initopt' search(off) `mlopts' `scopt' `robust' `vce' `continu' title(`titl
> e') diparm(ln`parm', exp label("`parm'")) `negh' `moptobj'
= version 18: ml model e2 nbreg_lf (piq_timing_max: piq_timing_max=wlth st
> ky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )
> /lnalpha if __000000 [], collinear missing max nooutput nopreserve init(__0
> 00002) search(off) robust vce(robust) continue title(Negative binomial reg
> ressession) diparm(lnalpha, exp label("alpha")) negh

```

---

```

> ----- begin ml -----
- if _caller()>=11 {
- mopt `0'
= mopt model e2 nbreg_lf (piq_timing_max: piq_timing_max=wlth stky_pr_ro
> temberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, ) /lnalph
> a if __000000 [], collinear missing max nooutput nopreserve init(__000002) s
> earch(off) robust vce(robust) continue title(Negative binomial regression)
> diparm(lnalpha, exp label("alpha")) negh

```

---

```

> ----- begin mopt -----
- 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 (piq_timing_max: piq_timi
> ng_max=wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrd
> it stky_wg, ) /lnalpha if __000000 [], collinear missing max nooutput nopre
> serve init(__000002) search(off) robust vce(robust) continue title(Negativ
> e binomial regression) diparm(lnalpha, exp label("alpha")) negh

> _____ begin mopt.Model _____
- 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] [, B
> RACKET COLLinear MISSing CONTinue lf0(string) INIT(string) CONSTraints(strin
> g) noCNSNOTEs VCE(passthru) NEGH NOPREserve TECHnique(string) ITERID(string)
> CRITtype(string) OBS(numlist max=1 >0) TITle(string) WALDtest(integer -1) S
> VY SUBpop(string) SRSSubpop noSVYadjust SCORE(passthru) noOUTput noSCVARS GR
> OUP(varname) ITERPROLOG(string) DERIVPROLOG(string) DERIVH(string) DERIVSCAL
> E(string) DERIV(string) nrderiv GNWMATrix(string) KAUXiliary(numlist int >=0
> ) MAXimize MINimize USERinfo(namelist) PUPDATED Robust CLuster(passthru) mop
> tobj(string) USEVIEWS * ]
- if ``moptobj''' == "" {
= if `''' == "" {
- Clear

> _____ begin mopt.Clear _____
- 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.Clear _____
- }
- local maxmin `minimize' `maximize'
= local maxmin maximize
- opts_exclusive ``maxmin''
= opts_exclusive "maximize"
_____
> _____ begin opts_exclusive _____
- 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_exclusive _____
- 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 label(
> "alpha"))) soptions syntaxonly
_____
> _____ begin _get_diparmopts _____
- 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 S
> YNTAXonly * ]
    - local goptions `options'
    = local goptions
    - SpliceGlobals junk , `goptions'
    = SpliceGlobals junk ,

> ----- begin _get_diparmopts.SpliceGlobals -----
    - syntax name(id="macro name" name=c_diparm) [, diparm(string as
> is) 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.SpliceGlobals -----
    - 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_parse -----

```

```

- 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 ``\nalpha, exp label("alpha")' == ":" {
    sreturn local after ``"after"'
    exit
    }
- while ``"COLON"' != ":" & ``"after"' != "" {
= while ``"' != ":" & ``"' != "" {
    gettoken COLON after : after, parse(":") bind match(par) quote

> s
    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_parse -----

- if !c(rc) {
    local single 0
    local diparm ``"s(before)'"
    local after ``"s(after)'"
    }
- capture
- SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptions'
= SpliceGlobals diparm , diparm(\nalpha, exp label("alpha")) synta

> xonly
-----
> ----- begin _get_diparmopts.SpliceGlobals -----
    - syntax name(id="macro name" name=c_diparm) [, diparm(string as
> is) 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(passthru
> ) 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.SpliceGlobals -----
- 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') `syntaxononly' `goptions'
  local diparm`k' ``diparm'''
  local diparmopts ``diparmopts' : `diparm'''
  if `single' | ``:list retok after''' == "" {
    local 0 `", `options'''
    syntax [, diparm(string asis) * ]
  }
  else {
    local diparm ``after'''
  }
}
- if ``soptions''' == "" {
= if `"soptions"' == "" {
  syntax [, diparm(string asis) ]
}
- if (`execute' == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options ``options'''
= sreturn local options `search(off)''
- sreturn local diparm ``diparmopts'''
= sreturn local diparm `` : lnalpha, exp label("alpha")''

```

```

- forval i = 1/`k' {
= forval i = 1/1 {
- sreturn local diparm`i' ``"diparm`i'"
= sreturn local diparm1 ``lnalpha, exp label("alpha")''
- }
- sreturn local k `k'
= sreturn local k 1
- exit

```

---

```

> _____ end _get_diparmopts _____
- 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 125 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim("`eq'"),1,1) == "/" {
= if bsubstr(trim("(piq_timing_max: piqu_timing_max=wlth stky_pr_rote
> mberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )"),1,1) ==
> "/" {
local eq = bsubstr(trim("`eq'"),2,.)
local spec : subinstr local spec "/"`eq' " ("`eq'":`fparm')"', wor
> d
}
- else {
- gettoken p1 p2 : eq, parse("(")
- local p2 = trim("`p2'")
= local p2 = trim("`piq_timing_max: piqu_timing_max=wlth stky_pr_rote
> mberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )'")
- if bsubstr("`p2'",1,1) == ",", {
= if bsubstr("piq_timing_max: piqu_timing_max=wlth stky_pr_rotemberg
> stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, )",1,1) == ",", {
gettoken comma p2 : p2, parse(",")
local p2 = trim("`p2'")
}
- if "`p1'`p2'" == "(" {
= if "`(piq_timing_max: piqu_timing_max=wlth stky_pr_rotemberg stky_p
> r_calvo wg_ndx open other_channel bnkcrdit stky_wg, )'" == "(" {
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')", wor
> d
= local spec : subinstr local spec "/lnalpha" "("lnalpha":, freepar
> m)", 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')", wor
> d
}
else {
gettoken p1 p2 : eq, parse("(")
local p2 = trim("`p2'")
if bsubstr("`p2'",1,1) == "," {
gettoken comma p2 : p2, parse(",")
local p2 = trim("`p2'")
}
if "`p1'`p2'" == "(" {
local spec : subinstr local spec "`eq' "(eq`ieq':)", word
}
}
}
- if `interactive' {
= if 0 {
SetGlobalVar ML_sample : _MLtua

```

```

    }
- else {
- global ML_sample : tempvar
- if ``moptobj''' != "" {
= if `''' != "" {
    global ML_sample `moptobj'$ML_sample
    }
- }
- if ``moptobj''' != "" {
= if `''' != "" {
    cap drop $ML_sample
    }
- `vv' mark $ML_sample `if' `in' [`weight'`exp'], `zeroweight'
= version 18: mark __000006 if __000000 [],
- tempname eqlist
- `.eqlist' = .eqlist.new, eqopts(NOCONSTant FREEParam) eqargopts(OF
> Fset EXPosure) noneedvarlist numdepvars(0) needequal
    = __000007 = .eqlist.new, eqopts(NOCONSTant FREEParam) eqargopts(OF
> Fset 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.new -----
- version 9.2
- ._init

```

---

```

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

```

---

```

> ----- end _eqlist._init -----
- ._setup `0'
  = ._setup , eqopts(NOCONSTant FREEParam) eqargopts(OFFset EXPosure)
> noneedvarlist numdepvars(0) needequal

```

---

```

> ----- begin _eqlist._setup -----
- version 9.2
- .mark_list = {}
- .mark_name = {}
- .mark_opts.reset

```

---

```

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}

```

---

```

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

```

---

```

> ----- begin _optlist.reset -----
- version 9
- .options = {}
- .names = {}

```

```

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

> ----- begin _optlist.reset -----
    - version 9
    - .options = {}
    - .names = {}

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

> ----- begin _optlist.reset -----
    - version 9
    - .options = {}
    - .names = {}

> ----- end _optlist.reset -----
    - syntax [, EQopts(namelist) EQARGopts(namelist) noNEEDVARLIST C
> OMMONopts(string asis) MARKopts(namelist) SMARKopts(namelist) RMCOLLOpts(nam
> elist) RMDCOLLOpts(namelist) NUMDEPvars(numlist integer >=0) NEEDEQUAL WTYPE
> S(string) IGNORENOCONS ]
    - .eq_opts_allowed.reset

> ----- begin _optlist.reset -----
    - version 9
    - .options = {}
    - .names = {}

> ----- end _optlist.reset -----
    - foreach opt of local eqopts {
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt NOCONSTant

> ----- begin _optlist.addopt -----
    - 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.addopt -----
    - }
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt FREEParm
}
> ----- begin _optlist.addopt -----
    - 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.addopt -----
    - }
    - foreach opt of local eqargopts {
    - .eq_opts_allowed.addopt `opt', passthru
    = .eq_opts_allowed.addopt OFFset, passthru
}
> ----- begin _optlist.addopt -----
    - 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.addopt -----
- }
- .eq_opts_allowed.addopt `opt', passthru
= .eq_opts_allowed.addopt EXPosure, passthru
-----

> ----- begin _optlist.addopt -----
- 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.addopt -----
- }
- local i 0
- foreach opt of local markopts {
  .mark_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local smarkopts {
  .smark_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmcollopts {
  .rmcoll_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmdcollopts {
  .rmdcoll_opts.addopt `opt', passthru
}
- .n_depvars.Arrdropall
- if "`numdepvars'" != "" {
= if "0" != "" {
- foreach ndep of local numdepvars {
- .n_depvars.Arrpush `ndep'
= .n_depvars.Arrpush 0
- }
- }

```

```

- else .n_depvars.Arrpush 1
- .needequal = ``needequal''
= .needequal = "needequal"
- .wtypes = ``wtypes''
= .wtypes = ""
- .noneedvarlist = ``needvarlist''
= .noneedvarlist = "noneedvarlist"
- .nocons_ignore = ``ignorenocons''
= .nocons_ignore = ""

> _____ end _eqlist._setup _____
> _____ end _eqlist.new _____
- .`eqlist'.parse `spec'
= .__000007.parse (piq_timing_max: piq_timing_max=wlth stky_pr_rote
> mberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg, ) ("lnalpha
> ":, freeparm)

> _____ begin _eqlist.parse _____
- version 9.2
- ._init

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

> _____ end _eqlist._init _____
- local MARKOPTLIST ```.mark_opts.dumpoptions'''

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

```



```

> ----- end _optlist.dumpoptions -----
    = local MARKOPTLIST `""'
    - local SMARKOPTLIST `""`.smark_opts.dumpoptions`""'

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

> ----- end _optlist.dumpoptions -----
    = local SMARKOPTLIST `""'
    - local RMCOLLOPTLIST `""`.rmcoll_opts.dumpoptions`""'

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

> ----- end _optlist.dumpoptions -----
    = local RMCOLLOPTLIST `""'
    - local RMDCOLLOPTLIST `""`.rmdcoll_opts.dumpoptions`""'

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

```

```

= class exit `""`

> _____ end _optlist.dumpoptions _____
= local RMDCOLLOPTLIST `""`
- _parse expand EQ GL : 0, gweight common( `MARKOPTLIST' `SMARKOPT
> LIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )
= _parse expand EQ GL : 0, gweight common( COLLlinear )
- 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' `SMARK
> OPTLIST' `RMCOLLOPTLIST' `RMDCOLLOPTLIST' COLLlinear )

```

```

    }
    - forval i = 1/`EQ_n' {
    = forval i = 1/2 {
    - if `i' <= `.n_depvars.arnels' {
    = 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 noneedvarlis
> t 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.new -----
    - version 9.2
    - syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL noNE
> EDVARLIST WYPES(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.new -----
- .eq_list['i'].parse `.eq_opts_allowed.objkey':`EQ_`i''
= .eq_list[1].parse __key(60000380d940):piq_timing_max: piq_timing
> _max=wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit
> stky_wg

> ----- begin _eqspec.parse -----
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(60000380d940):piq_timing_max: piq_timing
> _max=wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit
> stky_wg

> ----- begin _on_colon_parse -----
- 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(60000380d940)"" == ":" {
sreturn local after ```after'""
exit
}
- while ```COLON'"" != ":" & ```after'"" != "" {
= while ``"" != ":" & ``:piq_timing_max: piq_timing_max=wlth s
> tky_pr_rottemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg''
> != "" {
- 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 `":'" != ":" & `piq_timing_max: piq_timing_max=wlth s
> tky_pr_rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg"
> != "" {
    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 `__key(60000380d940)'"
- sreturn local after `""after'"
= sreturn local after `piq_timing_max: piq_timing_max=wlth st
> ky_pr_rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg"
_____
> _____ end _on_colon_parse _____
    - local ol `s(before)'
    = local ol __key(60000380d940)
    - if `:list sizeof ol' {
    = if 1 {
    - local OPTLIST `""`ol'.dumpoptions'"
    _____
> _____ begin _optlist.dumpoptions _____
    - 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 FREEParam
- }
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFset(passthru)
- }
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFset(passthru) EXPosure(
> passthru)
- }
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'''
= sreturn local optlist ``NOCONSTant FREEParam OFFset(passthru)
> EXPosure(passthru)''
- class exit ```optlist'''
= class exit ``NOCONSTant FREEParam OFFset(passthru) EXPosure(p
> assthru)''

-----
> ----- end _optlist.dumpoptions -----
= local OPTLIST ``NOCONSTant FREEParam OFFset(passthru) EXPosure(
> passthru)''
- local OPTNAMES ```.ol'.dumpnames'''

-----
> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/4 {
- local namelist `namelist' `.names['i']'
= local namelist noconstant
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset exposure
- }
- local namelist : list uniq namelist
- sreturn local namelist ```namelist'''
= sreturn local namelist ``noconstant freeparm offset exposure
> ''
- class exit ```namelist'''
= class exit ``noconstant freeparm offset exposure''

-----
> ----- end _optlist.dumpnames -----

```

```

= local OPTNAMES `"noconstant freeparm offset exposure"'
- local NOCONS constant noconstant
- if ```:list NOCONS & OPTNAMES'' == "" {
= if `"noconstant" == "" {
    local NOCONS noCONStant
    }
- else local NOCONS
- }
- local 0 ``s(after)''
= local 0 `"piq_timing_max: piq_timing_max=wlth stky_pr_rotember
> g stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg"
- if ```.wtypes'' != "" {
= if `"" != "" {
    local wgt "[`.wtypes]"
    }
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NOCON
> S' *]
= syntax [anything(equalok)] [if] [in] [, NOCONStant FREEParM 0
> FFset(passthru) EXPosure(passthru) *]
- local HOLDIF ``if''
= local HOLDIF `""
- local HOLDIN ``in''
= local HOLDIN `""
- if ``wgt'' != "" & ``weight'' != "" {
= if "" != "" & "" != "" {
    local HOLDWGT ``[`weight`exp]''
    }
- gettoken NAME REST : anything, parse(":")
- if trim("`NAME'") == ":" {
= if trim("piq_timing_max") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
    }
- if `:list sizeof REST' {
= if 9 {
- if strpos("`NAME'", ":") {
= if strpos("`piq_timing_max'", ":") {
    capture_msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
    }
- else {
- ._confirm_eqname `NAME'
= ._confirm_eqname piq_timing_max

```

```

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

> ----- end _eqspec._confirm_eqname -----
- }
- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
    local NAME
  }
- gettoken DEPVARs REST : anything, parse("=") bind
- if "`DEPVARs'" == "=" {
= if "piq_timing_max" == "=" {
    local REST : copy local anything
    local DEPVARs
  }
- if (:length local DEPVARs' == 0 & `.n_depvars') {
= if (14 == 0 & 0) {
    di as err "nothing found where depvar expected"
    exit 198
  }
- if ``"REST"' == "" {
= if `"'=wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_c
> hannel bnkcrdit stky_wg"' == "" {
    if 0`.needequal' {
    if `.needvarlist' | (:length local DEPVARs' != 0 & `.n_depvar
> s') {
    di as err "equal sign required to separate depvars from indepv
> ars"
    exit 198
  }
}
}

```



```

local DEPVARs
local n_deps : list sizeof anything
if `n_deps' != 0 | `.needvarlist' {
if `n_deps' < `.n_depvars' {
error 102
}
forval j = 1/`.n_depvars' {
gettoken YY anything : anything
local DEPVARs `DEPVARs' `YY'
}
local INDEPVARs : list retok anything
}
local hasequal 0
}
- else {
- gettoken EQ INDEPVARs : REST, parse("=") bind
- local hasequal 1
- }
- if `:list sizeof DEPVARs' {
= if 1 {
- _fv_check_depvar `DEPVARs'
= _fv_check_depvar piq_timing_max
- tsunab DEPVARs : `DEPVARs'
= tsunab DEPVARs : piq_timing_max
}

> ----- begin tsunab -----
- 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(int
> eger 32000) NAME(string)]
- c_local `user' `varlist'
= c_local DEPVARs piq_timing_max
- local n : word count `varlist'
= local n : word count piq_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }

> ----- end tsunab -----
- }
- if `:list sizeof INDEPVARs' {
= if 8 {
- fvunab INDEPVARs : `INDEPVARs'
= fvunab INDEPVARs : wlth stky_pr_rottemberg stky_pr_calvo wg_ndx

```

```

> open other_channel bnkcrdit stky_wg
-----
> ----- begin fvunab -----
    - version 11
    - _on_colon_parse `0'
      = _on_colon_parse INDEPVARs : wlth stky_pr_rotemberg stky_pr_c
> alvo wg_ndx open other_channel bnkcrdit stky_wg
-----
> ----- begin _on_colon_parse -----
    - 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 "INDEPVARs" == ":" {
      sreturn local after ``"after"
      exit
    }
    - while ``"COLON" != ":" & ``"after" != "" {
    = while ``" != ":" & ``": wlth stky_pr_rotemberg stky_pr_cal
> vo wg_ndx open other_channel bnkcrdit stky_wg" != "" {
    - 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 ``": != ":" & ``" wlth stky_pr_rotemberg stky_pr_cal
> vo wg_ndx open other_channel bnkcrdit stky_wg" != "" {
    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 `INDEPVARs '
- sreturn local after ``after'''
= sreturn local after `w lth stky_pr_rottemberg stky_pr_calv
> o wg_ndx open other_channel bnkcrdit stky_wg"

> ----- end _on_colon_parse -----
    - local 0 ``s(before)'''
    = local 0 `INDEPVARs '
    - syntax name(id="macro name" name=user)
    - local 0 ``s(after)'''
    = local 0 `w lth stky_pr_rottemberg stky_pr_calvo wg_ndx open
> other_channel bnkcrdit stky_wg"
    - syntax [varlist(ts fv default=none)] [, MIN(integer 1) MAX(i
> nteger 32000) NAME(string) ]
    - c_local `user' `varlist'
    = c_local INDEPVARs w lth stky_pr_rottemberg stky_pr_calvo wg_nd
> x open other_channel bnkcrdit stky_wg
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
    = if (1 <= 8 & 8 <= 32000) exit

> ----- end fvunab -----
    - }
    - if inlist("noconstant", "`noconstant'", "`constant'") {
    = if inlist("noconstant", "", "") {
        if "`INDEPVARs'" == "" & !`.nocons_ignore' {
            di as err "independent variables are required when option noco
> nstant 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``options``
}
- .name = ``NAME``
= .name = `piq_timing_max`

```

```

- .depvars = ``DEPVARs'''
= .depvars = "piq_timing_max"
- .hasequal = 'hasequal'
= .hasequal = 1
- .indepvars = ``:list retok INDEPVARs'''
= .indepvars = "wlth stky_pr_rotemberg stky_pr_calvo wg_ndx ope
> n other_channel bnkcrdit stky_wg"
- .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.parse -----
- }
- if `i' <= `.n_depvars.arnels' {
= 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 noneedvarlis
> t wtypes()

> ----- begin _eqspec.new -----
- version 9.2
- syntax [, NUMDEPvars(numlist integer >=0 max=1) NEEDEQUAL noNE
> EDVARLIST 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.new -----
- .eq_list['i'].parse `eq_opts_allowed.objkey:`EQ_`i'
= .eq_list[2].parse __key(60000380d940):"lnalpha":, freeparm

> ----- begin _eqspec.parse -----
- version 9.2
- _on_colon_parse `0'
= _on_colon_parse __key(60000380d940):"lnalpha":, freeparm

> ----- begin _on_colon_parse -----
- 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(60000380d940)" == ":" {
  sreturn local after ``after"
  exit
}
- while ``COLON"" != ":" & ``after"" != "" {
= while `"" != ":" & `":lnalpha":, freeparm" != "" {
- 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 `":'"' != ":" & `""lnalpha":, freeparm"' != "" {
    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 `__key(60000380d940)''
- sreturn local after ``after'''
= sreturn local after `""lnalpha":, freeparm"'

> ----- end _on_colon_parse -----

- local ol `s(before)'
= local ol __key(60000380d940)
- if `:list sizeof ol' {
= if 1 {
- local OPTLIST ```.ol'.dumpoptions'''

> ----- begin _optlist.dumpoptions -----

- 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 FREEParam
- }
- local optlist `optlist' `.options['i']'
= local optlist NOCONSTant FREEParam OFFSET(passthru)
- }
- local optlist `optlist' `.options['i']'

```

```

= local optlist NOCONSTant FREEParam OFFset(passthru) EXPosure(
> passthru)
- }
- local optlist : list uniq optlist
- sreturn local optlist ```optlist``
= sreturn local optlist ``NOCONSTant FREEParam OFFset(passthru)
> EXPosure(passthru)``
- class exit ```optlist``
= class exit ``NOCONSTant FREEParam OFFset(passthru) EXPosure(p
> assthru)``

-----
> ----- end _optlist.dumpoptions -----
= local OPTLIST ``NOCONSTant FREEParam OFFset(passthru) EXPosure(
> passthru)``
- local OPTNAMES ```.ol'.dumpnames``

-----
> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/4 {
- local namelist `namelist' `.names['i']'
= local namelist noconstant
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset
- }
- local namelist `namelist' `.names['i']'
= local namelist noconstant freeparm offset exposure
- }
- local namelist : list uniq namelist
- sreturn local namelist ```namelist``
= sreturn local namelist ``noconstant freeparm offset exposure
> ``
- class exit ```namelist``
= class exit ``noconstant freeparm offset exposure``

-----
> ----- end _optlist.dumpnames -----
= local OPTNAMES ``noconstant freeparm offset exposure``
- local NOCONS constant noconstant
- if ```:list NOCONS & OPTNAMES`` == "" {
= if ``noconstant`` == "" {
local NOCONS noCONSTant
}

```



```

- else local NOCONS
- }
- local 0 ``s(after)''
= local 0 ``lnalpha":, freeparm''
- if ``.wtypes'' != "" {
= if ``'' != "" {
    local wgt "[.wtypes]"
  }
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NOCON
> S' *]
    = syntax [anything(equalok)] [if] [in]  [, NOCONSTant FREEParam 0
> FFset(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_eqname -----
- 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_eqname _____
- }
- local NAME : list retok NAME
- gettoken COLON anything : REST, parse(":")
- }
- else {
  local NAME
  }
- gettoken DEPVARs REST : anything, parse("=") bind
- if "`DEPVARs'" == "=" {
= if "" == "=" {
  local REST : copy local anything
  local DEPVARs
  }
- if (`:length local DEPVARs' == 0 & `.n_depvars') {
= if (0 == 0 & 0) {
  di as err "nothing found where depvar expected"
  exit 198
  }
- if ``"REST""' == "" {
= if `""' == "" {
- if 0`.needequal' {
= if 01 {
- if `.needvarlist' | (`:length local DEPVARs' != 0 & `.n_depvar
> s') {
= if 0 | (0 != 0 & 0) {
  di as err "equal sign required to separate depvars from indep
> ars"
  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 {
    fvnab INDEPVARS : `INDEPVARS'
}
- if inlist("noconstant", "`noconstant'", "`constant'") {
= if inlist("noconstant", "", "") {
    if "`INDEPVARS'" == "" & !`.nocons_ignore' {
        di as err "independent variables are required when option noco
> nstant 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 FREEARM = `"'freeparm'"' != ""
= local FREEARM = `"'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.parse -----
- }
- local MARKOPTLIST `""`.mark_opts.dumpoptions`""`

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

> ----- end _optlist.dumpoptions -----
= local MARKOPTLIST `""`
- local MARKOPTNAMES `""`.mark_opts.dumpnames`""`

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

> ----- end _optlist.dumpnames -----
= local MARKOPTNAMES `""`

```

```

- local OPTLIST1 : substr local MARKOPTLIST "(passthru)" "(strin
> g asis)", all
- local SMARKOPTLIST ```.smark_opts.dumpoptions'''

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

> ----- end _optlist.dumpoptions -----
= local SMARKOPTLIST `'''
- local SMARKOPTNAMES ```.smark_opts.dumpnames'''

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

> ----- end _optlist.dumpnames -----
= local SMARKOPTNAMES `'''
- local OPTLIST1s : substr local SMARKOPTLIST "(passthru)" "(str
> ing asis)", all
- local RMCOLLOPTLIST ```.rmcoll_opts.dumpoptions'''

> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/0 {
    local optlist `optlist' `.options['i']'
}
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'''

```

```

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

```

---

```

> ----- end _optlist.dumpoptions -----
= local RMCOLLOPTLIST `""`
- local RMCOLLOPTNAMES ```.rmcoll_opts.dumpnames``

```

---

```

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

```

---

```

> ----- end _optlist.dumpnames -----
= local RMCOLLOPTNAMES `""`
- local OPTLIST2 : substr local RMCOLLOPTLIST "(passthru)" "(str
> ing asis)", all
- local RMDCOLLOPTLIST ```.rmdcoll_opts.dumpoptions``

```

---

```

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

```

---

```

> ----- end _optlist.dumpoptions -----
= local RMDCOLLOPTLIST `""`
- local RMDCOLLOPTNAMES ```.rmdcoll_opts.dumpnames``

```

---

```

> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/0 {

```

```

        local namelist `namelist' `.names['i']'
    }
    - local namelist : list uniq namelist
    - sreturn local namelist ``namelist'''
= sreturn local namelist `'''
    - class exit ``namelist'''
= class exit `'''

> ----- end _optlist.dumpnames -----
    = local RMDCOLLOPTNAMES `'''
    - local OPTLIST3 : substr local RMDCOLLOPTLIST "(passthru)" "(st
> ring asis)", all
    - local 0 `", `GL_op'''
    = local 0 `", ""
    - syntax [, `OPTLIST1' `OPTLIST1s' `OPTLIST2' `OPTLIST3' COLLlinear
> noCONSTant * ]
    = syntax [, COLLlinear 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.parse \_\_\_\_\_

```

- 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.eq -----
- 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.eq -----
= local eq_n = 2
- global ML_n : copy local eq_n
- global ML_dim = `.`eqlist'.dim'
}

> ----- begin _eqlist.dim -----
- version 9.2
- syntax
- local neq = `.eq count'
}

> ----- begin _eqlist.eq -----
- 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.eq -----
= local neq = 2
- forval i = 1/`neq' {

```

```

= forval i = 1/2 {
- local xvarsi ```.eq indepvars `i'```
}

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, indepvars

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

> ----- end _eqspec._check_eq_item_name -----
- local value ```.`item'```
= local value `".wlth stky_pr_rottemberg stky_pr_calvo wg_ndx op
> en other_channel bnkcredit stky_wg"
- sreturn local value ```.value```

```

```

        = sreturn local value `"wlth stky_pr_rottemberg stky_pr_calvo w
> g_ndx open other_channel bnkcrdit stky_wg"
        - class exit `""value""
        = class exit `"wlth stky_pr_rottemberg stky_pr_calvo wg_ndx ope
> n other_channel bnkcrdit stky_wg"

> ----- end _eqspec.item -----
        - class exit `""s(value)""
        = class exit `"wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open
> other_channel bnkcrdit stky_wg"

> ----- end _eqlist.eq -----
        = local xvarsi `"wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open
> other_channel bnkcrdit stky_wg"
        - local noconsi `""eq nocons `i""

> ----- begin _eqlist.eq -----
        - 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.item -----
        - version 9.2
        - args item
        - .check_eq_item_name item, `item'
        = .check_eq_item_name item, nocons

> ----- begin _eqspec._check_eq_item_name -----
        - 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 

---


- local value ```.item''''
= local value ``0''
- sreturn local value ``value''''
= sreturn local value ``0''
- class exit ``value''''
= class exit ``0''


---


> 

---

 end _eqspec.item 

---


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


---


> 

---

 end _eqlist.eq 

---


= local noconsi ``0''
- local dim = `dim' + `:list sizeof xvarsi'
= local dim = + 8
- if ``noconsi' == "0" {
= if "0" == "0" {
- local ++dim
- }
- }
- local xvarsi ``.eq indepvars `i''''


---


> 

---

 begin _eqlist.eq 

---


- 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.item 

---


- version 9.2

```

```

- args item
- ._check_eq_item_name item, `item'
= ._check_eq_item_name item, indepvars

```

---

```

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

```

---

```

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

```

---

```

> ----- end _eqspec.item -----
- class exit ```.s(value)```
= class exit ````

```

---

```

> ----- end _eqlist.eq -----
= local xvarsi ````
- local noconsi ```.eq nocons `i'```

```

---

```

> ----- begin _eqlist.eq -----
- 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.item -----
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, nocons
  > ----- begin _eqspec._check_eq_item_name -----
    - 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 -----
    - local value ```.`item'```
    = local value ``0```
    - sreturn local value ```.value```
    = sreturn local value ``0```
    - class exit ```.value```
    = class exit ``0```
  > ----- end _eqspec.item -----
    - class exit ```.s(value)```
    = class exit ``0```
  > ----- end _eqlist.eq -----
    = local noconsi ``0```
    - local dim = `dim' + `:list sizeof xvarsi'

```

```

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

> ----- end _eqlist.dim -----

= global ML_dim = 10
- forval i = 1/`eq_n' {
= forval i = 1/2 {
- local depvars `.`eqlist'.eq depvars `i''

> ----- begin _eqlist.eq -----

- 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.item -----

- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, depvars

> ----- begin _eqspec._check_eq_item_name -----

- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth

```



```

> er' `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 -----
    - local value ```.`item'"""
    = local value `"piq_timing_max"
    - sreturn local value ```.`value'"""
    = sreturn local value `"piq_timing_max"
    - class exit ```.`value'"""
    = class exit `"piq_timing_max"

```

```

> ----- end _eqspec.item -----
    - class exit ```.s(value)"""
    = class exit `"piq_timing_max"

```

```

> ----- end _eqlist.eq -----
    = local depvars piq_timing_max
    - local eq `.`eqlist'.eq name `i'

```

```

> ----- begin _eqlist.eq -----
    - 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 -----
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, name

```

```

> ----- begin _eqspec._check_eq_item_name -----
    - version 9.2

```

```

- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```.`item'"""
= local value `"piq_timing_max"
- sreturn local value ```.`value'"""
= sreturn local value `"piq_timing_max"
- class exit ```.`value'"""
= class exit `"piq_timing_max"

> ----- end _eqspec.item -----
- class exit ```.s(value)"""
= class exit `"piq_timing_max"

> ----- end _eqlist.eq -----
= local eq piq_timing_max
- if !`:length local eq' {
= if !14 {
  local eq eq`i'
}
- if `:list eq in eqnames' {
= if 0 {
  di as err "equation ``eq'' multiply defined"
  exit 110
}
- local eqnames `eqnames' `eq'
= local eqnames piq_timing_max
- fvexpand `.`eqlist'.eq indepvars `i' if $ML_samp

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, indepvars

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```.`item'''
= local value `".wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open
> other_channel bnkcrdit stky_wg"'
- sreturn local value ```.value'''
= sreturn local value `".wlth stky_pr_rottemberg stky_pr_calvo wg_
> ndx open other_channel bnkcrdit stky_wg"'
- class exit ```.value'''
= class exit `".wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open
> other_channel bnkcrdit stky_wg"'

```

```

> ----- end _eqspec.item -----
    - class exit ``s(value)''
    = class exit ``wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open ot
> her_channel bnkcrdit stky_wg''

> ----- end _eqlist.eq -----
    = fexpand wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open other_ch
> annel bnkcrdit stky_wg if __000006
    - if ``r(tsops)'' == "true" {
    = if "" == "true" {
        global ML_preserve no
    }
    - local eq_rhs`i' ``r(varlist)''
    = local eq_rhs1 ``wlth stky_pr_rottemberg stky_pr_calvo wg_ndx open o
> ther_channel bnkcrdit stky_wg''
    - local eq_nocons`i' ``.eqlist'.eq nocons `i''

> ----- begin _eqlist.eq -----
    - 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.item -----
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, nocons

> ----- begin _eqspec._check_eq_item_name -----
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }

```

```

- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 _____
- local value ```.`item'```
= local value ``0```
- sreturn local value ```value```
= sreturn local value ``0```
- class exit ```value```
= class exit ``0```
_____
> _____ end _eqspec.item _____
- class exit ```s(value)```
= class exit ``0```
_____
> _____ end _eqlist.eq _____
= local eq_nocons1 0
- local eq_offset`i' ``.eqlist'.eq offset `i'
_____
> _____ begin _eqlist.eq _____
- 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.item _____
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, offset
_____
> _____ begin _eqspec._check_eq_item_name _____

```

```

- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item'"""
= local value `""'
- sreturn local value ```.value'"""
= sreturn local value `""'
- class exit ```.value'"""
= class exit `""'

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

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

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

```

```

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

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```. `item'
= local value ``0''
- sreturn local value ``value''
= sreturn local value ``0''
- class exit ``value''
= class exit ``0''

> ----- end _eqspec.item -----
- class exit ``s(value)''
= class exit ``0''

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

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, freeparm
}

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```.item'''
= local value ``0'''
- sreturn local value ``value'''
= sreturn local value ``0'''
- class exit ``value'''
= class exit ``0'''
}

> ----- end _eqspec.item -----
- class exit ``s(value)'''
= class exit ``0'''
}

```



```

> ----- end _eqlist.eq -----
    = local eq_freeparm1 0
    - local lhs `lhs' `depvars'
    = local lhs piq_timing_max
    - local eq_names `eq_names' `eq'
    = local eq_names piq_timing_max
    - local nxvars :list sizeof eq_rhs`i'
    = local nxvars :list sizeof eq_rhs1
    - local TMP : copy local eq_rhs`i'
    = local TMP : copy local eq_rhs1
    - forval j = 1/`nxvars' {
    = forval j = 1/8 {
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth''
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g'''
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo''
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx''
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open''
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq
> _timing_max:other_channel''
    - }
    - gettoken xvar TMP : TMP
    - local colna ``colna' `eq':`xvar'``
    = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq

```

```

> _timing_max:other_channel piq_timing_max:bnkcrdit''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq
> _timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg''
- }
- if `eq_freeparm`i'' {
= if 0 {
  if `nxvars' {
    di as err "{it:xvars} not allowed with option {bf:freeparm}"
    exit 198
  }
  if strpos(`eq''', ":") {
    local colna ``colna' /\`eq'''
  }
  else {
    local colna ``colna' /:`eq'''
  }
}
- else if !`eq_nocons`i'' {
= else if !0 {
  - local colna ``colna' `eq':_cons''
  = local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq
> _timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg piq
> _timing_max:_cons''
- }
- if ``moptobj'' != "" {
= if "" != "" {
  if ``eq_offset`i''' != "" {
    if usubstr(`eq_offset`i'',1,2)=="__" {
      capture clonevar `moptobj`eq_offset`i' = `eq_offset`i'
      local dropmetoo `dropmetoo' `moptobj`eq_offset`i'
    }
  }
}
- }
- local depvars `.`eqlist'.eq depvars `i''

-----
> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, depvars
}

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEArm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
    local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `nocons' `offset' `exposure' `freearm' `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 -----
- local value ```.`item'''
= local value `'''
- sreturn local value ```value'''
= sreturn local value `'''
- class exit ```value'''
= class exit `'''
}

> ----- end _eqspec.item -----
- class exit ```s(value)'''
= class exit `'''
}

> ----- end _eqlist.eq -----

```

```

= local depvars
- local eq ``.eqlist'.eq name `i''

```

---

```

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, name

```

---

```

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ``.item''
= local value ``lnalpha''
- sreturn local value ``value''
= sreturn local value ``lnalpha''

```

```

        - class exit ``value'''
        = class exit ``lnalpha'''
    _____
> _____ end _eqspec.item _____
        - class exit ``s(value)'''
        = class exit ``lnalpha'''
    _____
> _____ end _eqlist.eq _____
    = local eq lnalpha
    - if !':length local eq' {
    = if !7 {
        local eq eq`i'
    }
    - if `:list eq in eqnames' {
    = if 0 {
        di as err "equation ``eq'' multiply defined"
        exit 110
    }
    - local eqnames `eqnames' `eq'
    = local eqnames piq_timing_max lnalpha
    - fvexpand `.`eqlist'.eq indepvars `i' if $ML_samp
    _____
> _____ begin _eqlist.eq _____
    - 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.item _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, indepvars
    _____
> _____ begin _eqspec._check_eq_item_name _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
    - if c(rc) error 198

```

```

- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item'```
= local value ````
- sreturn local value ```.value```
= sreturn local value ````
- class exit ```.value```
= class exit ````

```

---

```

> ----- end _eqspec.item -----
- class exit ```.s(value)```
= class exit ````

```

---

```

> ----- end _eqlist.eq -----
= fvexpand if __000006
- if "`r(tsops)'" == "true" {
= if "" == "true" {
  global ML_preserve no
}
- local eq_rhs`i' ```.r(varlist)```
= local eq_rhs2 ````
- local eq_nocons`i' ```.eqlist'.eq nocons `i'

```

---

```

> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, nocons
> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
- local value ```.item'''
= local value ``0'''
- sreturn local value ``value'''
= sreturn local value ``0'''
- class exit ``value'''
= class exit ``0'''
> ----- end _eqspec.item -----
- class exit ``s(value)'''
= class exit ``0'''
> ----- end _eqlist.eq -----
= local eq_nocons2 0
- local eq_offset`i' `.`eqlist'.eq offset `i''
> ----- begin _eqlist.eq -----
- 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.item -----
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, offset
}

> ----- begin _eqspec._check_eq_item_name -----
- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F IN WGT OTHER NOCONS OFFset EXPosure FREEParam OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `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 -----
- local value ```.`item''''
= local value `'''
- sreturn local value ```value'''
= sreturn local value `'''
- class exit ```value'''
= class exit `'''

> ----- end _eqspec.item -----
- class exit ```s(value)'''

```



```

= class exit `""'


---


> 

---

 end _eqlist.eq 

---


= local eq_offset2
- local eq_exposure`i' ``.`eqlist'.eq exposure `i''


---


> 

---

 begin _eqlist.eq 

---


- 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.item 

---


- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, exposure


---


> 

---

 begin _eqspec._check_eq_item_name 

---


- version 9.2
- capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 

---


- local value ```.item'''

```

```

    = local value ``0''
    - sreturn local value ``value''
    = sreturn local value ``0''
    - class exit ``value''
    = class exit ``0''
  _____
> _____ end _eqspec.item _____
    - class exit ``s(value)''
    = class exit ``0''
  _____

> _____ end _eqlist.eq _____
    = local eq_exposure2 0
    - local eq_freeparm`i' `.`eqlist'.eq freeparm `i'
  _____

> _____ begin _eqlist.eq _____
    - 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.item _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, freeparm
  _____

> _____ begin _eqspec._check_eq_item_name _____
    - version 9.2
    - capture syntax name(name=c_item) [, NAME DEPvars INDEPvars I
> F 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' `oth
> er' `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 -----
    - local value ```.`item'"""
    = local value `1'
    - sreturn local value ```value'"""
    = sreturn local value `1'
    - class exit ```value'"""
    = class exit `1'
}
> ----- end _eqspec.item -----
    - class exit ```s(value)'"'"'
    = class exit `1'
}
> ----- end _eqlist.eq -----
    = local eq_freeparm2 1
    - local lhs `lhs' `depvars'
    = local lhs piq_timing_max
    - local eq_names `eq_names' `eq'
    = local eq_names piq_timing_max lnalpha
    - local nxvars :list sizeof eq_rhs`i'
    = local nxvars :list sizeof eq_rhs2
    - local TMP : copy local eq_rhs`i'
    = local TMP : copy local eq_rhs2
    - forval j = 1/`nxvars' {
    = forval j = 1/0 {
        gettoken xvar TMP : TMP
        local colna ```colna' `eq':`xvar'"""
    }
    - if `eq_freeparm`i' {
    = if 1 {
        - if `nxvars' {
        = if 0 {
            di as err "{it:xvars} not allowed with option {bf:freeparm}"
            exit 198
        }
        - if strpos(```eq'""', ":") {
        = if strpos(`lnalpha'", ":") {
            local colna ```colna' /`eq'"""
        }
        - else {
        - local colna ```colna' /:`eq'"""
    }
}

```

```

= local colna `` piq_timing_max:wlth piq_timing_max:stky_pr_rotember
> g piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq
> _timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg piq
> _timing_max:_cons /:lnalpha''
- }
- }
- else if !`eq_nocons`i'' {
= else if !0 {
  local colna ``colna' `eq':_cons''
  }
- if ``moptobj'' != '' {
= if '' != '' {
  if ``eq_offset`i'' != '' {
    if usubstr(`eq_offset`i'',1,2)=="" {
      capture clonevar `moptobj'`eq_offset`i'' = `eq_offset`i''
      local dropmetoo `dropmetoo' `moptobj'`eq_offset`i''
    }
  }
}
- }
- if ``moptobj'' != '' {
= if '' != '' {
  foreach y of local lhs {
    if usubstr(`y'',1,2)=="" {
      capture clonevar `moptobj'`y' = `y'
      local tmp `tmp' `moptobj'`y'
      local dropmetoo `dropmetoo' `moptobj'`y'
    }
    else {
      local tmp `tmp' `y'
    }
  }
  local lhs `tmp'
}
- if `waldtest' > 0 & `:length local lf0' {
= if -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 -442.7295221007071
- }
- local ub0
- }
- if `:length local init' {
= if 8 {
- tempname b0
- local dim : list sizeof colna
- matrix `b0' = J(1,`dim',0)
= matrix __00000B = J(1,10,0)
- matrix colna `b0' = `colna'
= matrix colna __00000B = piq_timing_max:wlth piq_timing_max:stky_p
> r_rotemberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_ma
> x:open piq_timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:s
> tky_wg piq_timing_max:_cons /:lnalpha
- `vv' _mkvec `b0', from(`init') update first error("initial vector"
> )
= version 18: _mkvec __00000B, from(__000002) update first error("in
> itial vector")

> ----- begin _mkvec -----
- 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 vector
> "

        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.From -----
    - gettoken from 0 : 0, parse(",") bind
    - sret clear
    - sret local from `from'
    = sret local from __000002
    - if ```0'``!=`` {
    = if ``'``!=`` {
        syntax [, COPY SKIP ]
    }
    - sret local copy `copy'
    = sret local copy
    - sret local skip `skip'
    = sret local skip

    -----
> ----- end _mkvec.From -----
    - 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.BuildMat -----
- local vv : display "version " string(_caller()) ":"
- version 6
- args matall error skip
- macro shift 3
- tokenize ``*'', parse(" =")
= tokenize ``__000002'', parse(" =")
- tempname matadd
- local i 1
- while ``i'!="" {
= while "__000002"!=" {
- local k = `i' + 1
= local k = 1 + 1
- if ``k'==" {
= if ""==" {
  local j = `i' + 2
  `vv' MkMat `matadd' ``i' ``j' `skip'
  local i = `i' + 3
}
- else {
- ChkMat `matadd' ``i' ``error'
= ChkMat __00000D __000002 ``initial vector: ''

```

---

```

> ----- begin _mkvec.ChkMat -----
- 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(co
> lsof(`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.ChkMat _____

    - 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.BuildMat _____

    - if ""`colname'""!=""" {
    = if ""piq_timing_max:wlth piq_timing_max:stky_pr_rottemberg piq_ti

```



```

> ming_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open piq_timing_
> max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg piq_timing_
> max:_cons /lnalpha""!=" {
    - `vv' ChkNames `mat' ""`matin'"" ""`colname'"" ""`error'"" ""`skip'""
> ""`first'""
    = version 18: ChkNames __00000C ""__00000B"" ""`piq_timing_max:wlth p
> iq_timing_max:stky_pr_rottemberg piq_timing_max:stky_pr_calvo piq_timing_max:
> wg_ndx piq_timing_max:open piq_timing_max:other_channel piq_timing_max:bnkcr
> dit piq_timing_max:stky_wg piq_timing_max:_cons /lnalpha"" ""`initial vector:
> "" ""`first'""

```

---

```

> ----- begin _mkvec.ChkNames -----
    - local vv : display "version " string(_caller()) ":"
    - version 6
    - args mat matin names error skip first
    - local dim = colsof(matrix(`mat'))
    = local dim = colsof(matrix(__00000C))
    - if ""`first'""!=" {
    = if "first"!=" {
    - gettoken name : names
    - local eq1 = bsubstr(`""`name'""',1,index(`""`name'""',":"))
    = local eq1 = bsubstr(`"piq_timing_max:wlth'""',1,index(`"piq_timi
> ng_max:wlth'""',":"))
    - }
    - tempname new fill x
    - local k : list sizeof names
    - if ""`matin'""!=" {
    = if "__00000B"!=" {
    - mat `new' = `matin'
    = mat __00000D = __00000B
    - }
    - else {
        mat `new' = J(1,`k',0)
        `vv' mat colnames `new' = `names'
    }
    - mat `fill' = J(1,`k',0)
    = mat __00000E = J(1,10,0)
    - local i 1
    - while `i' <= `dim' {
    = while 1 <= 10 {
    - mat `x' = `mat'[1,`i'..`i']
    = mat __00000F = __00000C[1,1..1]
    - local eq : coleq `x'
    = local eq : coleq __00000F
    - local name : colname `x'
    = local name : colname __00000F

```

```

- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/"`name'
  }
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:wlth"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/piq_timing_max:wlth"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse wlth, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec "`eq':`oname'"
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`"piq_timing_max:wlth"')

> )

- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/piq_timing_max:wlth" != "" {
    `vv' local j = colnumb(`new',``sspec'')
  }
- if `j'==. & ``eq'=='_' & ``eq1'!='' {
= if 1==. & `"piq_timing_max"=='_' & `"piq_timing_max:!"'!='' {
    `vv' local j = colnumb(`new',``eq1``name'')
    if `j' == . & "`oname'" != "" {
      `vv' local j = colnumb(`new',``eq1``oname'')
    }
  }
- if `j'!=. {
= if 1!=. {
- if `filll'[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':`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 __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 "spe
> cify skip option if necessary"
    exit 111
    }
- local i = `i' + 1
= local i = 1 + 1
- }
- while `i' <= `dim' {
= while 2 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,2..2]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/"`name'
    }
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:stky_pr_rottemberg"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {

```

```

- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:stky_pr_rottemberg"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_pr_rottemberg, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec ``eq':`oname'
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:stky_p
> r_rottemberg'')
- if `j' == . & ``oname' != "" {
= if 2 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec' != "" {
= if 2 == . & "/piq_timing_max:stky_pr_rottemberg" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 2==. & `piq_timing_max'=="_" & `piq_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1`name'')
  if `j' == . & ``oname' != "" {
    `vv' local j = colnumb(`new',``eq1`oname'')
  }
}
- if `j'!=. {
= if 2!=. {
- if `fill'[1,`j'] {
= if __00000E[1,2] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'=="_" {
      di in red ``error'duplicate "" ``entries for `name' found''
    }
    else di in red ``error'' ``duplicate entries for `eq':`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 __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 "spe
> cify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 2 + 1
- }
- while `i' <= `dim' {
= while 3 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,3..3]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:stky_pr_calvo"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/"piq_timing_max:stky_pr_calvo"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_pr_calvo, noomit
- if c(rc) == 0 {

```

```

- if r(omit) {
  local oname ``r(stripe)''
  local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:stky_p
> r_calvo'')
- if `j' == . & ``oname'' != "" {
= if 3 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec'' != "" {
= if 3 == . & "/piq_timing_max:stky_pr_calvo" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq''==_" & ``eq1''!= "" {
= if 3==. & `piq_timing_max''==_" & `piq_timing_max:''!= "" {
  `vv' local j = colnumb(`new',``eq1``name'')
  if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new',``eq1``oname'')
  }
}
- if `j'!=. {
= if 3!=. {
- if `fill'[1,`j'] {
= if __00000E[1,3] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq''==_" {
      di in red ``error'duplicate '' ``entries for `name' found''
    }
    else di in red ``error'' ``duplicate entries for `eq':`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 __00000E[1,3] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,3] = __00000C[1,3]
- }
- else if ``skip''=="" {

```

```

= else if ""==" {
  if "`eq'"=="_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "' ``spec' found"' _n "spe
> cify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 3 + 1
- }
- while `i' <= `dim' {
= while 4 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,4..4]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
  local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:wg_ndx"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/"piq_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(stripe)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:wg_ndx
> '')
- if `j' == . & "`oname'" != "" {

```

```

= if 4 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "sspec" != "" {
= if 4 == . & "/piq_timing_max:wg_ndx" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 4==. & ``piq_timing_max'""=="_" & ``piq_timing_max:'""!="" {
  `vv' local j = colnumb(`new',``eq1'`name'')
  if `j' == . & "oname" != "" {
    `vv' local j = colnumb(`new',``eq1'`oname'')
  }
}
- if `j'!=. {
= if 4!=. {
- if `fill'[1,`j'] {
= if __00000E[1,4] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'""=="_" {
      di in red ``error'duplicate "' `entries for `name' found"'
    }
    else di in red ``error'"" `duplicate entries for `eq':`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 __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 "spe
> cify skip option if necessary"
  exit 111
}
- local i = `i' + 1

```



```

= local i = 4 + 1
- }
- while `i' <= `dim' {
= while 5 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,5..5]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/"`name'"
  }
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:open"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/piq_timing_max:open"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse open, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)'"
    local ospec "`eq':`oname'"
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`"piq_timing_max:open"')
> )

- if `j' == . & "`oname'" != "" {
= if 5 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & "`sspec'" != "" {
= if 5 == . & "/piq_timing_max:open" != "" {
    `vv' local j = colnumb(`new',``sspec'')
  }
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 5==. & `"piq_timing_max'""=="_" & `"piq_timing_max:'""!="" {

```

```

`vv' local j = colnumb(`new', ``eq1'`name'`)
if `j' == . & ``oname' != "" {
`vv' local j = colnumb(`new', ``eq1'`oname'`)
}
}
- if `j'!=. {
= if 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':`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 __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 "spe
> cify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 5 + 1
- }
- while `i' <= `dim' {
= while 6 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,6..6]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'

```

```

= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
  local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:other_channel"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/piq_timing_max:other_channel"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse other_channel, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`"piq_timing_max:other_
> channel'')
- if `j' == . & "`oname'" != "" {
= if 6 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 6 == . & "/piq_timing_max:other_channel" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ```eq'""=="_" & ```eq1'""!="" {
= if 6==. & `"piq_timing_max""=="_" & `"piq_timing_max:"'!="" {
  `vv' local j = colnumb(`new',```eq1'`name'')
  if `j' == . & "`oname'" != "" {
    `vv' local j = colnumb(`new',```eq1'`oname'')
  }
}
- if `j'!=. {
= if 6!=. {
- if `fill'[1,`j'] {
= if __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':`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 __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 "spe
> cify skip option if necessary"
    exit 111
    }
- local i = `i' + 1
= local i = 6 + 1
- }
- while `i' <= `dim' {
= while 7 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,7..7]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/"`name'"
    }
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:bnkcredit"
- if (usubstr("`eq'",1,1) != "/") {

```

```

= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/piq_timing_max:bnkcrdit"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse bnkcrdit, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec ``eq':`oname'
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:bnkcrd
> it'')

- if `j' == . & ``oname' != "" {
= if 7 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec' != "" {
= if 7 == . & "/piq_timing_max:bnkcrdit" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 7==. & `piq_timing_max'=="_" & `piq_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1`name'')
  if `j' == . & ``oname' != "" {
    `vv' local j = colnumb(`new',``eq1`oname'')
  }
}
- if `j'!=. {
= if 7!=. {
- if `fill'[1,`j'] {
= if __00000E[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':`name'
> found'

exit 507
}

```

```

        else if !missing(`new'[1,`j']) {
            matrix `mat'[1,`i'] = `new'[1,`j']
        }
    }
- else mat `filll'[1,`j'] = 1
= else mat __00000E[1,7] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,7] = __00000C[1,7]
- }
- else if ""`skip'""=="" {
= else if ""=="" {
    if ""`eq'""=="_" {
        local spec : copy local name
    }
    di in red ""`error'extra parameter "" `""`spec' found"" _n "spe
> cify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 7 + 1
- }
- while `i' <= `dim' {
= while 8 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,8..8]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if ""`eq'"" == "/" {
= if "piq_timing_max" == "/" {
    local spec "/"`name'""
}
- else {
- local spec ""`eq':`name'""
= local spec "piq_timing_max:stky_wg"
- if (usubstr(""`eq'","",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'""
= local sspec "/"piq_timing_max:stky_wg"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse stky_wg, noomit

```

```

- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)''
  local ospec ``eq':`oname''
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:stky_w
> g'')

- if `j' == . & ``oname'' != "" {
= if 8 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec'' != "" {
= if 8 == . & "/piq_timing_max:stky_wg" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 8==. & `piq_timing_max'=="_" & `piq_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1`name'')
  if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new',``eq1`oname'')
  }
}
- if `j'!=. {
= if 8!=. {
- if `fill'[1,`j'] {
= if __00000E[1,8] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ``eq'=="_" {
      di in red ``error'duplicate '' ``entries for `name' found''
    }
    else di in red ``error'' ``duplicate entries for `eq':`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 __00000E[1,8] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,8] = __00000C[1,8]
- }

```

```

- else if "`skip'"==" {
= else if ""==" {
  if "`eq'"=="_" {
    local spec : copy local name
  }
  di in red ``error'extra parameter "' ``spec' found"' _n "spe
> cify skip option if necessary"
  exit 111
}
- local i = `i' + 1
= local i = 8 + 1
- }
- while `i' <= `dim' {
= while 9 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,9..9]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "piq_timing_max" == "/" {
  local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "piq_timing_max:_cons"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("piq_timing_max",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/"piq_timing_max:_cons"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse _cons, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,`piq_timing_max:_cons"
> ')

```



```

- if `j' == . & ""`oname'" != "" {
= if 9 == . & "" != "" {
  `vv' local j = colnumb(`new',`""`ospec'')
}
- if `j' == . & ""`sspec'" != "" {
= if 9 == . & "/piq_timing_max:_cons" != "" {
  `vv' local j = colnumb(`new',`""`sspec'')
}
- if `j'==. & ""`eq'""=="_" & ""`eq1'""!="" {
= if 9==. & ""`piq_timing_max'""=="_" & ""`piq_timing_max:'""!="" {
  `vv' local j = colnumb(`new',`""`eq1'`name'')
  if `j' == . & ""`oname'" != "" {
    `vv' local j = colnumb(`new',`""`eq1'`oname'')
  }
}
- if `j'!=. {
= if 9!=. {
- if `fill'[1,`j'] {
= if __00000E[1,9] {
  _ms_parse_parts `name'
  if !r(omit) {
    if ""`eq'""=="_" {
      di in red ""`error'duplicate "' `entries for `name' found"'
    }
    else di in red ""`error'"" `duplicate entries for `eq':`name'
  }
}
exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']
}
}
- else mat `fill'[1,`j'] = 1
= else mat __00000E[1,9] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,9] = __00000C[1,9]
- }
- else if ""`skip'""=="" {
= else if ""=="" {
  if ""`eq'""=="_" {
    local spec : copy local name
  }
  di in red ""`error'extra parameter "' `""`spec' found"' _n "spe
> cify skip option if necessary"
exit 111
}

```

```

- local i = `i' + 1
= local i = 9 + 1
- }
- while `i' <= `dim' {
= while 10 <= 10 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000F = __00000C[1,10..10]
- local eq : coleq `x'
= local eq : coleq __00000F
- local name : colname `x'
= local name : colname __00000F
- if "`eq'" == "/" {
= if "/" == "/" {
- local spec "/"`name'"
= local spec "/lnalpha"
- }
- else {
    local spec "`eq':`name'"
    if (usubstr("`eq'",1,1) != "/") {
        local sspec "/"`eq':`name'"
    }
}
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse lnalpha, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)'"
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18: local j = colnumb(__00000D,``/lnalpha'')
- if `j' == . & "`oname'" != "" {
= if 10 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 10 == . & "/piq_timing_max:_cons" != "" {
    `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 10==. & ``/'""=="_" & ``piq_timing_max:'""!="" {
    `vv' local j = colnumb(`new',``eq1'`name'')
    if `j' == . & "`oname'" != "" {

```

```

        `vv' local j = colnumb(`new', ``eq1'`oname'``)
    }
}
- if `j'!=. {
= if 10!=. {
- if `fill'[1,`j'] {
= if __00000E[1,10] {
    _ms_parse_parts `name'
    if !r(omit) {
        if ``eq'=="_" {
            di in red ``error'duplicate "'`entries for `name' found"'
        }
        else di in red ``error'""`duplicate entries for `eq':`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 __00000E[1,10] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __00000D[1,10] = __00000C[1,10]
- }
- else if ``skip'==" " {
= else if ""==" " {
    if ``eq'=="_" {
        local spec : copy local name
    }
    di in red ``error'extra parameter "'`spec' found"' _n "spe
> cify skip option if necessary"
    exit 111
}
- local i = `i' + 1
= local i = 10 + 1
- }
- while `i' <= `dim' {
= while 11 <= 10 {
    mat `x' = `mat'[1,`i'..`i']
    local eq : coleq `x'
    local name : colname `x'
    if ``eq' == "/" {
        local spec "/"`name'
    }
    else {

```

```

local spec "`eq':`name'"
if (usubstr("`eq'",1,1) != "/") {
local sspec "/"`eq':`name'"
}
}
local oname
local ospec
capture _msparse `name', noomit
if c(rc) == 0 {
if r(omit) {
local oname ``r(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':`name'
> found"'
}
}
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 "spe
> cify skip option if necessary"
        exit 111
    }
    local i = `i' + 1
}
- mat `fill' = `fill'*`fill'
= mat __00000E = __00000E*__00000E
- sret clear
- sret local k_fill = `fill'[1,1]
= sret local k_fill = __00000E[1,1]
- mat `mat' = `new'
= mat __00000C = __00000D

```

---

```

> ----- end _mkvec.ChkNames -----
- local fill `s(k_fill)'
= local fill 10
- }
- }
- }
- else {
    local fill 0
    if "`update'"!="" {
        mat `mat' = `matin'
    }
    else if `"'colname'"!="" {
        local dim : list sizeof colname
        mat `mat' = J(1,`dim',0)
        `vv' mat colnames `mat' = `colname'
    }
    else {
        di in red "from() must be specified"
        exit 198
    }
}
- sret clear
- sret local copy `copy'
= sret local copy
- sret local skip `skip'
= sret local skip
- sret local k = colsof(matrix(`mat'))
= sret local k = colsof(matrix(__00000C))
- if "`fill'"!="" {

```

```

= if "10"!=" {
- sret local k_fill `fill'
= sret local k_fill 10
- }
- else sret local k_fill = colsof(matrix(`mat'))
= else sret local k_fill = colsof(matrix(__00000C))
- matrix rename `mat' `matout', replace
= matrix rename __00000C __00000B, replace

```

---

```

> _____ end _mkvec _____
- }
- tempname bomit
- matrix `bomit' = J(1,`:list sizeof colna',0)
= matrix __00000C = J(1,10,0)
- matrix colna `bomit' = `colna'
= matrix colna __00000C = piq_timing_max:wlth piq_timing_max:stky_p
> r_rottemberg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_ma
> x:open piq_timing_max:other_channel piq_timing_max:bnkcredit piq_timing_max:s
> tky_wg piq_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 : `wt'
> , `vce'
    = _vce_parse, argoptlist(Cluster) optlist(OIM OPG Robust) old : , vc
> e(robust) robust

> ----- begin _vce_parse -----
    - version 10
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(Cluster) optlist(OIM OPG Robust) ol
> d : , vce(robust) robust

> ----- begin _on_colon_parse -----
    - 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"' != "" {
    - gettoken COLON after : after, parse(":") bind match(par) quote
> s
    - if "`par'" != "" {
    = if "" != "" {
      local before `before' (`COLON')
      local COLON
    }
    - else if ``"COLON"' != ":" {
    = else if `":' != ":" {
      local before ``"before' `COLON"'
      local COLON
    }
    - }

```

```

- while ``COLON''' != ":" & ``after''' != "" {
= while `":' != ":" & `", vce(robust) robust''' != "" {
  gettoken COLON after : after, parse(":") bind match(par) quote

> s
  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(CLister) optlist(OIM OPG R
> obust) old ""
- sreturn local after ``after'''
= sreturn local after `", vce(robust) robust'''

----- end _on_colon_parse -----
>
- local 0 ``s(before)'''
= local 0 `", argoptlist(CLister) optlist(OIM OPG Robust) old ""
- local user ``s(after)'''
= local user `", vce(robust) robust'''
- syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist(n
> amelist) 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'.addopt `name'
= .__00000D.addopt OIM

----- begin _optlist.addopt -----
>
- 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.adopt -----

- }
- .`o'.adopt `name'
= .__00000D.adopt OPG
}

> ----- begin _optlist.adopt -----

- 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.adopt -----

- }
- .`o'.adopt `name'
= .__00000D.adopt Robust
}

> ----- begin _optlist.adopt -----

- 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.addopt -----
- }
- .`a' = ._optlist.new
= __00000E = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- .`a'.addopt `name'
= __00000E.addopt CLuster

> ----- begin _optlist.addopt -----
- 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.addopt -----
- }
- local OPTNAMES ```.`o'.dumpnames'''

> ----- begin _optlist.dumpnames -----
- version 9
- forval i = 1/`.names.arnels' {
= 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.dumpnames -----
= local OPTNAMES `"oim opg robust"'
- local ARGOPTNAMES `""`.a'.dumpnames'''

> ----- begin _optlist.dumpnames -----
- 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.dumpnames -----
= 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(varname)

> ]

- 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.ParseVCE -----
- gettoken 0 0 : 0, parse(" ,")
- gettoken A 0 : 0, parse(" ,")
- local OPTSPECS ```.`0'.dumpoptions' `.`A'.dumpoptions''

> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= 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.dumpoptions -----

> ----- begin _optlist.dumpoptions -----
- version 9
- forval i = 1/`.options.arnels' {
= 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.dumpoptions -----
= local OPTSPECS `"OIM OPG Robust CLuster"'
- local OPTNAMES `""`.0'.dumpnames' `.`A'.dumpnames'''

```

---

```

> ----- begin _optlist.dumpnames -----
- 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.dumpnames -----

```

---

```

> ----- begin _optlist.dumpnames -----
- 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.dumpnames -----
= 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.ParseVCE _____

- 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"
> , "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\_parse \_\_\_\_\_

```

- local vce `r(vce)'
= local vce robust
- }
- else if "`weight'" == "pweight" {
= else if "" == "pweight" {
    local vce robust
  }
- if `:length local svy' {
= if 0 {
    local vce svy
  }
- if ``"vce'" == "cluster" {
= if `"robust"' == "cluster" {
    local cluster `r(cluster)'
    markout $ML_sample `cluster', strok
  }
- if `:length local group' {
= if 0 {
    markout $ML_sample `group', strok
    global ML_group : copy local group
  }

```



```

if bsubstr("`type `group'",1,3) == "str" {
  if `interactive' {
    SetGlobalVar ML_grp : _MLgr
  }
  else {
    global ML_grp : tempvar
    if ``moptobj' != "" {
      global ML_grp `moptobj'$ML_grp
    }
  }
  quietly egen $ML_grp = group(`group')
  if ! `:length local cluster' {
    local cluster : copy global ML_grp
  }
  else {
    if ! `:length local cluster' {
      local cluster : copy global ML_group
    }
  }
}
- if "$ML_samp" != "$ML_sample" {
= if "__000006" != "__000006" {
  quietly replace $ML_samp = 0 if $ML_samp & $ML_sample == 0
}
- if `:length local vce' == 0 {
= if 6 == 0 {
  if ``technique' == "bhhh" {
    local vce opg
  }
  else local vce oim
}
- if inlist("`vce'", "robust", "cluster") & bsubstr("`evaltype'",1,1
> ) == "d" {
= if inlist("robust", "robust", "cluster") & bsubstr("e2",1,1) == "d
> " {
  local optname = cond("`svy'"=="" , "vce(`vce')", "svy")
  di as err "option `optname' is not allowed with evaltype `evaltype
> ""
  exit 198
}
- if `:length local crittype' == 0 {
= if 0 == 0 {
- if inlist("`vce'", "cluster", "robust", "svy") {
= if inlist("robust", "cluster", "robust", "svy") {
- local crittype "log pseudolikelihood"

```

```

- }
- else local crittype "log likelihood"
- }
- global ML_waldtest `waldtest'
= global ML_waldtest -1
- if `:length local svy' | `:length local weight' {
= if 0 | 0 {
    if `interactive' {
        SetGlobalVar ML_w : _MLw
    }
    else {
        global ML_w : tempvar
        if ``moptobj' != "" {
            global ML_w `moptobj'$ML_w
        }
    }
}
- if `:length local weight' {
= if 0 {
    if ``moptobj' != "" {
        cap drop $ML_w
    }
    quietly gen double $ML_w `exp' if $ML_samp
    local wtype ``weight'
    local wexp ``exp'
    global ML_wtyp : copy local wtype
    global ML_wexp : copy local wexp
    if "wtype" == "iweight" | "`svy'" != "" {
        local zeroweight zeroweight
    }
}
- if inlist("`vce'", "svy", "cluster") {
= if inlist("robust", "svy", "cluster") {
    if `interactive' {
        SetGlobalVar ML_subv : _MLsu
    }
    else {
        global ML_subv : tempvar
        if ``moptobj' != "" {
            global ML_subv `moptobj'$ML_subv
        }
    }
}
- quietly count if $ML_sample
= quietly count if __000006
- if r(N) == 0 {

```

```

error 2000
}
- if ``weight''' != "" {
= if `''' != "" {
  quietly count if $ML_sample & $ML_w != 0
  if r(N) == 0 {
    di in gr "all observation have zero weights"
    exit 2000
  }
}
- if `:length local lf0' {
= if 20 {
- if `:list sizeof lf0' != 2 {
= if 2 != 2 {
  di as err "lf0(`lf0') invalid"
  exit 198
}
- global ML_k0 : word 1 of `lf0'
= global ML_k0 : word 1 of 2 -442.7295221007071
- global ML_ll_0 : word 2 of `lf0'
= global ML_ll_0 : word 2 of 2 -442.7295221007071
- confirm integer number $ML_k0
= confirm integer number 2
- confirm number $ML_ll_0
= confirm number -442.7295221007071
- if $ML_k0 < 0 {
= if 2 < 0 {
  di as err "lf0(`lf0') invalid"
  exit 198
}
- }
- if "`obs'" == "" {
= if "" == "" {
- if "`wtype'" != "fweight" {
= if "" != "fweight" {
- quietly count if $ML_sample
= quietly count if __000006
- local obs = r(N)
- }
- else {
  sum $ML_w if $ML_sample, mean
  local obs = r(sum)
}
- }
- if `:length local iterid' {
= if 0 {

```

```

        local iterid = trim(bsubstr("`iterid'",1,32))
    }
    - if `:length local crittype' {
    = if 20 {
    - local crittype = trim(bsubstr("`crittype'",1,32))
    = local crittype = trim(bsubstr("`log pseudolikelihood'",1,32))
    - }
    - if `:length local derivscale' {
    = if 0 {
        confirm matrix `derivscale'
    }
    - if `:length local derivh' {
    = if 0 {
        confirm matrix `derivh'
    }
    - local l : strlen local deriv
    - ParseUsemin, `deriv' len(`l')
    = ParseUsemin, len(0)
}

> ----- begin mopt.ParseUsemin -----
    - capture syntax [, LEN(integer 0), MIN1(numlist min=2 max=2 missi
> ngokay) 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 exclus
> ive"
        exit 198
    }
    - if ``min1' != "" & ``nomin' != "" {
    = if `'' != "" & `'' != "" {
        di as err "options {bf:min} and {bf:nomin} are mutually exclusiv
> e"
        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 exclus
> ive"
      exit 198
    }
    else {
      local deriv 0
    }
  }
  - else {
  - local deriv 0
  - }
  - }
  - sreturn local deriv `deriv'
= sreturn local deriv 0
}

> ----- end mopt.ParseUsemin -----

- 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 -----

```

```

- 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 -----

- global ML_stat model
- if !`interactive' {
= if !0 {
- `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptobj'
> )
= version 18: MaxMin maximize, nooutput  search(off) moptobj()

> ----- begin mopt.MaxMin -----

- local vv : di "version " string(_caller()) ":"
- version 12
- ChkMacros

> ----- begin mopt.ChkMacros -----

- 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 do
> ne something to drop" _n "temporary variables ml added to your data.  You mu
> st start again."
    Clear
    exit 111
}

> ----- end mopt.ChkMacros -----

- syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0) LT
> OLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) QT0
> Lerance(numlist max=1 >=0) GTOLerance(numlist max=1 >=0) ITERate(numlist max

```

```

> =1 >=0) NOTCONCAVE(numlist max=1 >=0) ndami DIFFicult HALFSTEPonly D0OPT SEA
> rch(name) Repeat(passthru) Bounds(string) SCore(string) noWARNing noCLEAR NO
> L0g L0g DOTs SHOWTOLerance SHOWNRtolerance SHOWSTEP TRace COEFDiffs GRADient
> 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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - 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_iterlog 

---


    - 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_iterlog 

---


    - local log ``s(nolog)''
= local log ""
    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `co
> efdiffs'
= 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_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)

```

```

- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piq_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __000000==. { exit }
- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
  }
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))
> ) + `p'*(`y'-`mu') if $ML_samp
    = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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 {
    mlfmatsum `lnf' `d11' = `mu', eq(1)
    mlfmatsum `lnf' `d12' = 0, eq(1,2)
    mlfmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mlfmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1), eq
> (1)
    = mlfmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
    - mlfmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
    = mlfmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _timing_max-__00000Y), eq(1,2)
    - mlfmatsum `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)
    = mlfmatsum __000000 __000013 = __00000W*(digamma(__00000W) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)- 1), eq(2)
    - }
    - matrix `H' = (`d11',`d12' \ `d12'',`d22')
    = matrix __00000Q = (__000011,__000012 \ __000012',__000013)
}

> _____ end nbreg_lf _____
Iteration 0: Log pseudolikelihood = -394.91789
}

> _____ begin nbreg_lf _____

- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {

```

```

        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __000000==. { exit }
    }
}
> ----- end nbreg_lf -----
> ----- begin nbreg_lf -----
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000U = __00000N, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 0 == 0 | __000000==. { exit }
    }
}
> ----- end nbreg_lf -----
> ----- begin nbreg_lf -----
    - version 6.0
    - args todo b lnf g H sc1 sc2

```

```

- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lgamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    mlsun `lnf' = lgamma(`m'+`y') - lgamma(`y'+1) - lgamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lgamma(__00000W+piq_timing_max) - lgamma(pi
> q_timing_max+1) - lgamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
  - }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __000000==. { exit }
- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
- if `lnalpha'<-20 {
= if __00000V<-20 {
    replace `sc1' = `y'-`mu' if $ML_samp
    replace `sc2' = 0 if $ML_samp
  }
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p')
> ) + `p'*(`y'-`mu') if $ML_samp
    = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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 {
  mpmatsum `lnf' `d11' = `mu', eq(1)
  mpmatsum `lnf' `d12' = 0, eq(1,2)
  mpmatsum `lnf' `d22' = 0, eq(2)
}
- else {
- mpmatsum `lnf' `d11' = `mu'*`p'*(`alpha'*`p'*(`y'-`mu')+1), eq
> (1)
= mpmatsum __000000 __000011 = __00000Y*__00000Z*(__000010*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
- mpmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
= mpmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _timing_max-__00000Y), eq(1,2)
- mpmatsum `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)
= mpmatsum __000000 __000013 = __00000W*(digamma(__00000W) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)-1), eq(2)
- }
- matrix `H' = (`d11', `d12' \ `d12'', `d22')
= matrix __00000Q = (__000011, __000012 \ __000012', __000013)
_____
> _____ end nbreg_lf _____
Iteration 1: Log pseudolikelihood = -383.62691
_____
> _____ begin nbreg_lf _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m

```

```

- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }

_____
> _____ end nbreg_lf _____
_____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000U = __00000N, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))

```

```

> - piq_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }
    _____
> _____ end nbreg_lf _____
    _____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000U = __00000N, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piq_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 2 == 0 | __000000==. { exit }
    - tempname alpha
    - tempvar mu p
    - quietly {
    - gen double `mu' = exp(`xb') if $ML_samp
    = gen double __00000Y = exp(__00000U) if __000006
    - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
    = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
    - if `lnalpha'<-20 {
    = if __00000V<-20 {
        replace `sc1' = `y'-`mu' if $ML_samp
        replace `sc2' = 0 if $ML_samp
    }
    - else {

```



```

- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p')
> ) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
= mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)- 1), eq(2)
- }
- matrix `H' = (`d11',`d12' \ `d12'',`d22')

```

```

= matrix __00000Q = (__000011,__000012 \ __000012',__000013)
> ----- end nbreg_lf -----
Iteration 2: Log pseudolikelihood = -372.84857
> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsum __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __000000==. { exit }
> ----- end nbreg_lf -----
> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')

```

```

= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }

> _____ end nbreg_lf _____
> _____ begin nbreg_lf _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }

> _____ end nbreg_lf _____

```

```

> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
mlsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
- mlsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
= mlsum __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __000000==. { exit }
- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
- if `lnalpha'<-20 {
= if __00000V<-20 {
replace `sc1' = `y'-`mu' if $ML_samp
replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))
> ) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
= mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)- 1), eq(2)
- }
- matrix `H' = (`d11', `d12' \ `d12'', `d22')
= matrix __00000Q = (__000011, __000012 \ __000012', __000013)

> _____ end nbreg_lf _____
Iteration 3: Log pseudolikelihood = -370.69355
> _____ begin nbreg_lf _____
- version 6.0

```

```

- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }
}

> _____ end nbreg_lf _____

> _____ begin nbreg_lf _____

- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')

```

```

> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 0 == 0 | __000000==. { exit }
      _____
> _____ end nbreg_lf _____
      _____
> _____ begin nbreg_lf _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempname lnalpha m
      - mlevel `xb' = `b', eq(1)
      = mlevel __00000U = __00000N, eq(1)
      - mlevel `lnalpha' = `b', eq(2) scalar
      = mlevel __00000V = __00000N, eq(2) scalar
      - local y "$ML_y1"
      = local y "piq_timing_max"
      - scalar `m' = exp(-`lnalpha')
      = scalar __00000W = exp(-__00000V)
      - if `lnalpha' < -20 {
      = if __00000V < -20 {
          mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
      - else {
          - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 2 == 0 | __000000==. { exit }
      - tempname alpha
      - tempvar mu p
      - quietly {
      - gen double `mu' = exp(`xb') if $ML_samp
      = gen double __00000Y = exp(__00000U) if __000006
      - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
      = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
      - if `lnalpha'<-20 {
      = if __00000V<-20 {
          replace `sc1' = `y'-`mu' if $ML_samp

```

```

        replace `sc2' = 0 if $ML_samp
    }
    - else {
    - replace `sc1' = `p'*(`y'-'mu') if $ML_samp
    = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
        - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p')
> ) + `p'*(`y'-'mu') if $ML_samp
        = replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
        - mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-'mu'), eq(1,2)
        = mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z

```



```

> *(piq_timing_max-__00000Y)- 1), eq(2)
    - }
    - matrix `H' = (`d11',`d12' \ `d12'',`d22')
    = matrix __00000Q = (__000011,__000012 \ __000012',__000013)
    _____
> _____ end nbreg_lf _____
Iteration 4:  Log pseudolikelihood = -367.38186
    _____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000U = __00000N, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000V = __00000N, eq(2) scalar
    - local y "$ML_y1"
    = local y "piq_timing_max"
    - scalar `m' = exp(-`lnalpha')
    = scalar __00000W = exp(-__00000V)
    - if `lnalpha' < -20 {
    = if __00000V < -20 {
        mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
    }
    - else {
        mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }
    _____
> _____ end nbreg_lf _____
    _____
> _____ begin nbreg_lf _____
    - version 6.0
    - args todo b lnf g H sc1 sc2
    - tempvar xb
    - tempname lnalpha m
    - mlevel `xb' = `b', eq(1)
    = mlevel __00000U = __00000N, eq(1)
    - mlevel `lnalpha' = `b', eq(2) scalar
    = mlevel __00000V = __00000N, eq(2) scalar

```

```

- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piq_timing_max*ln1p(exp(-__00000U-__00000V))
  - }
- if `todo' == 0 | `lnf'==. { exit }
= if 0 == 0 | __000000==. { exit }

> _____ end nbreg_lf _____
> _____ begin nbreg_lf _____

- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piq_timing_max*ln1p(exp(-__00000U-__00000V))
  - }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __000000==. { exit }

```

```

- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
- if `lnalpha'<-20 {
= if __00000V<-20 {
  replace `sc1' = `y'-`mu' if $ML_samp
  replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))
> ) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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*__000

```

```

> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
      - mلماتsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
      = mلماتsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _timing_max-__00000Y), eq(1,2)
      - mلماتsum `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)
      = mلماتsum __000000 __000013 = __00000W*(digamma(__00000W) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)- 1), eq(2)
      - }
      - matrix `H' = (`d11',`d12' \ `d12'',`d22')
      = matrix __00000Q = (__000011,__000012 \ __000012',__000013)
_____
> _____ end nbreg_lf _____
Iteration 5:  Log pseudolikelihood = -367.12521
_____
> _____ begin nbreg_lf _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempname lnalpha m
      - mlevel `xb' = `b', eq(1)
      = mlevel __00000U = __00000N, eq(1)
      - mlevel `lnalpha' = `b', eq(2) scalar
      = mlevel __00000V = __00000N, eq(2) scalar
      - local y "$ML_y1"
      = local y "piq_timing_max"
      - scalar `m' = exp(-`lnalpha')
      = scalar __00000W = exp(-__00000V)
      - if `lnalpha' < -20 {
      = if __00000V < -20 {
          mلماتsum `lnf' =-lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
      - else {
          - mلماتsum `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
          = mلماتsum __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piq_timing_max*ln1p(exp(-__00000U-__00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 0 == 0 | __000000==. { exit }
_____
> _____ end nbreg_lf _____

```

```

> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lalpha')
= scalar __00000W = exp(-__00000V)
- if `lalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
  }
- else {
    - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lalpha')) - `y'*ln1p(exp(-`xb'-`lalpha'))
    = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
    - }
    - if `todo' == 0 | `lnf'==. { exit }
    = if 0 == 0 | __000000==. { exit }

> ----- end nbreg_lf -----

> ----- begin nbreg_lf -----
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lalpha')
= scalar __00000W = exp(-__00000V)
- if `lalpha' < -20 {
= if __00000V < -20 {
    mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'

```

```

    }
    - else {
        - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
        = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
        - }
        - if `todo' == 0 | `lnf'==. { exit }
        = if 2 == 0 | __000000==. { exit }
        - tempname alpha
        - tempvar mu p
        - quietly {
            - gen double `mu' = exp(`xb') if $ML_samp
            = gen double __00000Y = exp(__00000U) if __000006
            - gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
            = gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
            - if `lnalpha'<-20 {
            = if __00000V<-20 {
                replace `sc1' = `y'-`mu' if $ML_samp
                replace `sc2' = 0 if $ML_samp
            }
            - else {
            - replace `sc1' = `p'*(`y'-`mu') if $ML_samp
            = replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
            - replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))
> ) + `p'*(`y'-`mu') if $ML_samp
            = replace __00000S = __00000W*(digamma(__00000W) - digamma(piqt
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_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 {
  mلماتsum `lnf' `d11' = `mu', eq(1)
  mلماتsum `lnf' `d12' = 0, eq(1,2)
  mلماتsum `lnf' `d22' = 0, eq(2)
}
- else {
- mلماتsum `lnf' `d11' = `mu'*`p*(`alpha'*`p*(`y'-`mu')+1), eq
> (1)
  = mلماتsum __000000 __000011 = __00000Y*__00000Z*(__000010*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
  - mلماتsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
  = mلماتsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _timing_max-__00000Y), eq(1,2)
  - mلماتsum `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)
  = mلماتsum __000000 __000013 = __00000W*(digamma(__00000W) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)- 1), eq(2)
  - }
  - matrix `H' = (`d11',`d12' \ `d12'',`d22')
  = matrix __00000Q = (__000011,__000012 \ __000012',__000013)
}
> _____ end nbreg_lf _____
Iteration 6: Log pseudolikelihood = -367.12428
> _____ begin nbreg_lf _____
- version 6.0
- args todo b lnf g H sc1 sc2
- tempvar xb
- tempname lnalpha m
- mlevel `xb' = `b', eq(1)
= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
  mلماتsum `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {

```

```

- mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 0 == 0 | __000000==. { exit }
_____
> _____ end nbreg_lf _____
_____
> _____ begin nbreg_lf _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempname lnalpha m
      - mlevel `xb' = `b', eq(1)
      = mlevel __00000U = __00000N, eq(1)
      - mlevel `lnalpha' = `b', eq(2) scalar
      = mlevel __00000V = __00000N, eq(2) scalar
      - local y "$ML_y1"
      = local y "piq_timing_max"
      - scalar `m' = exp(-`lnalpha')
      = scalar __00000W = exp(-__00000V)
      - if `lnalpha' < -20 {
      = if __00000V < -20 {
          mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
      }
      - else {
      - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
      = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
      - }
      - if `todo' == 0 | `lnf'==. { exit }
      = if 0 == 0 | __000000==. { exit }
_____
> _____ end nbreg_lf _____
_____
> _____ begin nbreg_lf _____
      - version 6.0
      - args todo b lnf g H sc1 sc2
      - tempvar xb
      - tempname lnalpha m
      - mlevel `xb' = `b', eq(1)

```



```

= mlevel __00000U = __00000N, eq(1)
- mlevel `lnalpha' = `b', eq(2) scalar
= mlevel __00000V = __00000N, eq(2) scalar
- local y "$ML_y1"
= local y "piq_timing_max"
- scalar `m' = exp(-`lnalpha')
= scalar __00000W = exp(-__00000V)
- if `lnalpha' < -20 {
= if __00000V < -20 {
  mlsun `lnf' = -lngamma(`y'+1) - exp(`xb') + `y'*`xb'
}
- else {
  - mlsun `lnf' = lngamma(`m'+`y') - lngamma(`y'+1) - lngamma(`m')
> - `m'*ln1p(exp(`xb'+`lnalpha')) - `y'*ln1p(exp(-`xb'-`lnalpha'))
  = mlsun __000000 = lngamma(__00000W+piq_timing_max) - lngamma(pi
> q_timing_max+1) - lngamma(__00000W) - __00000W*ln1p(exp(__00000U+__00000V))
> - piqu_timing_max*ln1p(exp(-__00000U-__00000V))
- }
- if `todo' == 0 | `lnf'==. { exit }
= if 2 == 0 | __000000==. { exit }
- tempname alpha
- tempvar mu p
- quietly {
- gen double `mu' = exp(`xb') if $ML_samp
= gen double __00000Y = exp(__00000U) if __000006
- gen double `p' = 1/(1+exp(`xb'+`lnalpha')) if $ML_samp
= gen double __00000Z = 1/(1+exp(__00000U+__00000V)) if __000006
- if `lnalpha'<-20 {
= if __00000V<-20 {
  replace `sc1' = `y'-`mu' if $ML_samp
  replace `sc2' = 0 if $ML_samp
}
- else {
- replace `sc1' = `p'*(`y'-`mu') if $ML_samp
= replace __00000R = __00000Z*(piq_timing_max-__00000Y) if __000
> 006
- replace `sc2' = `m'*(digamma(`m') - digamma(`y'+`m') - ln(`p'))
> ) + `p'*(`y'-`mu') if $ML_samp
= replace __00000S = __00000W*(digamma(__00000W) - digamma(piq_t
> iming_max+__00000W) - ln(__00000Z)) + __00000Z*(piq_timing_max-__00000Y) if
> __000006
- }
- }
- $ML_ec tempname g1 g2
= * tempname g1 g2
- $ML_ec mlvecsum `lnf' `g1' = `sc1', eq(1)

```

```

= * mlvectsum __000000 = __00000R, eq(1)
- $ML_ec mlvectsum `lnf' `g2' = `sc2', eq(2)
= * mlvectsum __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*__000
> 00Z*(piq_timing_max-__00000Y)+1), eq(1)
- mlmatsum `lnf' `d12' = `alpha'*`mu'*`p'^2*(`y'-`mu'), eq(1,2)
= mlmatsum __000000 __000012 = __000010*__00000Y*__00000Z^2*(piq
> _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) - dig
> amma(piq_timing_max+__00000W) - ln(__00000Z) - __00000W*(trigamma(piq_timing
> _max+__00000W) - trigamma(__00000W))) + __00000Y*__00000Z*(__000010*__00000Z
> *(piq_timing_max-__00000Y)- 1), eq(2)
- }
- matrix `H' = (`d11', `d12' \ `d12'', `d22')
= matrix __00000Q = (__000011, __000012 \ __000012', __000013)

> _____ end nbreg_lf _____
Iteration 7: Log pseudolikelihood = -367.12428

> _____ begin mopt_post _____
- 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(`depv
> ar') buildfvinfo
- ereturn post __00000U __00000V [], esample(__00000W) depname(
> piq_timing_max) buildfvinfo


---


> 

---

 end mopt_post 

---


- ereturn scalar k_eq_model = abs($ML_waldtest)
= ereturn scalar k_eq_model = abs(-1)
- if `:length global ML_ll_0' {
= if 18 {
- ereturn scalar ll_0 = $ML_ll_0
= ereturn scalar ll_0 = -442.7295221007071
- if `:length global ML_rank0' {
= if 1 {
- ereturn scalar rank0 = $ML_rank0
= ereturn scalar rank0 = 2
- ereturn scalar df_m = e(rank) - $ML_rank0
= ereturn scalar df_m = e(rank) - 2
- }
- else ereturn scalar df_m = e(rank) - $ML_k0
= else ereturn scalar df_m = e(rank) - 2
- }
- if !`:length global ML_ll_0' | inlist(e(vce), "robust", "cluster
> ", "linearized") {
= if !18 | inlist(e(vce), "robust", "cluster", "linearized") {
- if "$ML_svy" == "" {
= if "" == "" {
- _prefix_model_test, minimum


---


> 

---

 begin _prefix_model_test 

---


- 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 test -----
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
  AnovaTestChooser `0'
  return add
  exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
  MixedTestChooser `0'
  return add
  exit
}
- if _caller() < 8 {
  _test `0'
  return add
  exit
}
- is_svy

> ----- begin is_svy -----
- 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 -----
- 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.WaldTest -----
- 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" "" "optio
> n before using this command"
    exit 301
  }
}
- gettoken tok : 0, parse(" (,") bind
- local single single
- local zero ``0'
= local zero `` ([#1]), ""
- if ``tok' == "(" {
= if ``('' == "(" {
- local single
- while ``tok' == "(" {
= while ``('' == "(" {
- gettoken tok 0 : 0, parse(" (,") match(paren) bind
- local eqns ``eqns' ``tok'
= local eqns `` [#1]
- gettoken tok : 0, parse(" (,") bind
- }
- while ``tok' == "(" {
= while ``",' == "(" {
  gettoken tok 0 : 0, parse(" (,") match(paren) bind
  local eqns ``eqns' ``tok'
  gettoken tok : 0, parse(" (,") bind
}
- if ``tok' != "," & ``tok' != "" {
= if ``",' != "," & ``",' != "" {
  local single single
}
- }
- if "`single'"=="single" {
= if ""=="single" {
  local eqns

```

```

        local 0 ``zero''
        while ``tok'' != "" & ``tok'' != "," {
        gettoken tok 0 : 0, parse(" ,") bind
        local eqns ``eqns' `tok''
        gettoken tok : 0, parse(" ,") bind
        }
        local eqns ``''eqns''''
    }
    - syntax [, Accumulate noSVYadjust common CONStant MINimum M
> test 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 combine
> d"

    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 dat
> a"

    exit 198
    }
- local svy_adjust = `is_svy' & ``svyadjust' == ""
= local svy_adjust = 0 & "" == ""
- if `svy_adjust' & missing(`dof') & (missing(e(N_psu)) | mi
> ssing(e(N_strata))) {
= if 0 & missing(.) & (missing(e(N_psu)) | missing(e(N_strat
> a))) {

    di as err "impossible to adjust p-values"
    exit 198
    }
- if `is_svy' & ``test' == "" {
= if 0 & ``' == "" {
    if ``svyadjust' == "" {
    di _n as txt "Adjusted Wald test"
    }
    else di _n as txt "Unadjusted Wald test"
    }
- local tmp : subinstr local eqns "==" "", all count(local
> nch)

- if `nch' > 0 {
= if 0 > 0 {
    di as err "==" invalid operator"
    exit 198
    }
- local eqns : subinstr local eqns "=" "=", all
- ExpandExpns ``eqns' ``common' ``constant'
= ExpandExpns ``[#1]'' "" ""



---


> 

---

 begin test.ExpandExpns 

---


- args expns common constant
- gettoken exp expns : expns
- while ``exp' != "" {
= while ``[#1]' != "" {

```



```

- Expand ``exp''' ``common'' ``constant''
= Expand ``[#1]''' '' ''

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

> ----- end test.Expand -----
- 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.ExpandExpns -----
- 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 %8.2f
> `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 __000010
- }
- 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:`d'
> ip'}"

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 ``testtype'
> ' _col(22) %6.0f `df1' _col(33) %6.4f `p'
di as txt "{hline 7}{c BT}{hline 30}"
_mtest footer 1 ``mtmethod'" "*" "
}
- if "`coef'" != "" {
= if "" != "" {
Table
}
- return scalar p = `p'
= return scalar p = __000010
- return scalar df = `df1'
= return scalar df = __00000Z
- if ``testtype'" == "F" {
= if "chi2" == "F" {
return scalar F = `F'
return scalar df_r = `df2'
}
- else return scalar chi2 = `chi2'
= else return scalar chi2 = __00000Y
- return scalar drop = `drop'
= return scalar drop = __000011
- local i 1
- while ``dropped_`i'" != "" {
= while "" != "" {
return scalar dropped_`i' = `dropped_`i'
local ++i
}
- if ``mtmethod'" != "" {
= if "" != "" {
return matrix mtest `tm'
return local mtmethod `mtmethod'
}
}

> ----- end test.WaldTest -----

- return add

```

```

> ----- end test -----
- if !c(rc) {
- if `:length local minimum' {
= if 7 {
- quietly test, min

> ----- begin test -----
- if "`e(cmd)'" == "anova" | "`e(cmd)'" == "manova" {
= if "mopt" == "anova" | "mopt" == "manova" {
  AnovaTestChooser `0'
  return add
  exit
}
- if "`e(cmd)'" == "mixed" {
= if "mopt" == "mixed" {
  MixedTestChooser `0'
  return add
  exit
}
- if _caller() < 8 {
  _test `0'
  return add
  exit
}
- is_svy

> ----- begin is_svy -----
- 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 -----

```

```

- local is_svy = r(is_svy)
- if replay() & `is_svy' == 0 {
= if replay() & 0 == 0 {
- _test `0'
= _test , min
- return add
- exit

```

---

```

> ----- end test -----
- }
- 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_test -----
- }
- else {
  _prefix_model_test, $ML_svy $ML_noadj
}
- }
- else if `:length global ML_ll_0' {
= else if 18 {
  if ``"maxmin"' == "minimize" {
    ereturn scalar chi2 = -2*(e(ll)-e(ll_0))
  }
  else {
    ereturn scalar chi2 = 2*(e(ll)-e(ll_0))
  }
  ereturn scalar p = chi2tail(e(df_m), e(chi2))
  ereturn local chi2type "LR"
}
- if `:length global ML_wexp' {
= if 0 {
  ereturn local wtype ``$ML_wtyp"'
  ereturn local wexp ``$ML_wexp"'
}
- if `:length global ML_group' {
= if 0 {
  ereturn local group ``$ML_group"'
  if ``"e(clustvar)'" == "$ML_grp" & "$ML_grp" != "" {
    ereturn local clustvar ``$ML_group"'
  }
}
- ereturn local cmd "ml"
- if `:length local score' {
= if 0 {
  mata: Mopt_score(0)
  ereturn local scorevars `scores'
}
- if "$ML_preserve" != "no" {
= if "no" != "no" {
  restore

```



```

        if "`e(prefix)'" == "svy" & e(N_strata_omit) {
            tempname v
            quietly _svy2 $ML_sample if $ML_sample, type(total) svy v(`v') s
> ubpop(`e(subpop)') touse($ML_sample)
        }
        ereturn repost, esample($ML_sample)
    }
    - if ``moptobj'" != "" {
= if `"' != "" {
        local clear noclear
    }
    - if `:length local clear' {
= if !0 {
    - Clear
}

> ----- begin mopt.Clear -----
    - 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.Clear -----
    - }
    - else {
        capture confirmvar $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.MaxMin -----
    - }
}

```

```

> ----- end mopt.Model -----
    - if c(rc) {
      local rc = c(rc)
      Clear
      exit `rc'
    }
  - exit
-----

> ----- end mopt -----
  - exit
-----

> ----- end ml -----
  - est local cmd
  - if "`score'"!="" {
= if ""!=" {
    label var `scvar1' "Score index for x*b from nbreg"
    rename `scvar1' `sname1'
    label var `scvar2' "Score index for /ln`parm' from nbreg"
    rename `scvar2' `sname2'
    est local scorevars `sname1' `sname2'
  }
  - _b_pclass PCDEF : default
-----

> ----- begin _b_pclass -----
  - version 15
  - args c_value COLON key
  - _on_colon_parse `0'
  = _on_colon_parse PCDEF : default
-----

> ----- begin _on_colon_parse -----
  - 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_parse _____

- 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_pclass _____

```

```

- _b_pclass PCAUX : aux


---


> 

---

 begin _b_pclass 

---


- version 15
- args c_value COLON key
- _on_colon_parse `0'
= _on_colon_parse PCAUX : aux


---


> 

---

 begin _on_colon_parse 

---


- 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_parse -----
    - 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_pclass -----
    - 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(1,10,0)
    - matrix `pclass`[1,`dim`] = `PCAUX`
    = matrix __000006[1,10] = 2
    - est hidden matrix b_pclass `pclass`
    = est hidden matrix b_pclass __000006
    - if ``llp`` != "" {
    = if "" != "" {
        est local chi2_ct "LR"
        est scalar ll_c = `llp`
        if (e(ll) < e(ll_c)) | (_b[/ln`parm`] < -20) {
            est scalar chi2_c = 0
        }
        else est scalar chi2_c = 2*(e(ll)-e(ll_c))
    }
    - est scalar r2_p = 1 - e(ll)/e(ll_0)

```

```

- est scalar k_aux = 1
- est hidden local diparm_opt2 noprob
- 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 -442.7295221007071
- global S_E_llc `e(ll_c)'
= global S_E_llc
- global S_1 `e(chi2_c)'
= global S_1
- global S_E_chi2 = e(chi2)
- global S_E_mdf = e(df_m)
- global S_E_pr2 `e(r2_p)'
= global S_E_pr2 .170770720234017
- global S_E_nobs = e(N)
- global S_E_tdf = e(N)
- global S_E_off `e(offset)'
= global S_E_off
- global S_E_depv `e(depvar)'
= global S_E_depv piq_timing_max
- global S_E_cmd `e(cmd)'
= global S_E_cmd nbreg
- if ``display'""=="" {
= if ""=="" {
- Display, `irr' level(`level') `diopts'
= Display, level(95)

```

---

```

> ----- begin nbreg.Display -----
- syntax [, Level(cilevel) IRr *]
- _get_diopts diopts, `options'
= _get_diopts diopts,

```

---

```

> ----- begin _get_diopts -----
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist

```

```

- GetDiopts diopts options, `options'
= GetDiopts diopts options,

```

---

```

> ----- begin _get_diopts.GetDiopts -----
- 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""opts"" != "" {
= while `"" != "" {
local ++n
gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""opts"" != "" {

```

```

= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels` `nobaselevels`"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells` `noemptycells`"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

```



```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- 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.Wrapon

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
di as err "invalid fvwrapon() option;"
syntax [, W0rd WIdth]
exit 198
}
- opts_exclusive ``word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

> begin opts\_exclusive

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts''' != "" {
= while `''' != "" {
local ++n
gettoken item`n' opts : opts, bind

```

```

    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}


---


> 

---

 end opts_exclusive 

---


    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}


---


> 

---

 end _get_diopts.Wrapon 

---


    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwr
> ap' `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.GetDiopts 

---


    - 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.GetDiopts -----
- 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_exclusive -----
- version 8.2
- args opts optname errcode optslab

```



```

- local opts `opts'
= local opts
- local n 0
- while `""`opts'"" != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts'"" != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts'"" != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

```

```

- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ""`coding' `compare'""
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive ""`versus' `compare'""
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `""`opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive ""`abbrev' `noabbrev'""
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon -----
- capture syntax [, W0rd WIdth]
- if c(rc) {
  di as err "invalid fvwrapon() option;"
  syntax [, W0rd WIdth]
  exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
  c_local fvwrapon fvwrapon(`fvwrapon')
}

```

---

```

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwr
> ap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
= c_local DEFAULT

```



```

- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts' ``options'
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

```

---

```

> ----- end _get_diopts.GetDiopts -----
- if ``name2' == "" {
= if ``' == "" {
- GetDiopts DUPS, `options'
= GetDiopts DUPS,

```

---

```

> ----- begin _get_diopts.GetDiopts -----
- 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while ``' != "" {
  local ++n
  gettoken item`n' opts : opts, bind

```

```

    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----
    - opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {

```

```

= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch` `nolstretch`"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

```

```

> ----- end opts_exclusive -----
- opts_exclusive ``coeflegend' `selegend'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive ``noci' `nopvalues'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"'`opts`"' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"'`opts`"' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while `"'`opts`"' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - 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.Wrapon -----
- capture syntax [, W0rd WIdth]
- if c(rc) {
  di as err "invalid fvwrapon() option;"

```



```

syntax [, W0rd WIdth]
exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
  c_local fvwrapon fvwrapon(`fvwrapon')
}

```

---

```

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwr
> ap' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
- }
- else {
  GetDiopts DUPS options, `options'
  c_local `name2' ``options'
  }
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if ``DUPS' != "" {
= if `"' != "" {
  if (strpos(`DUPS', "(")) {
    gettoken DUPS : DUPS, parse("(")
    local DUPS `DUPS'()'
  }
  di as err "duplicate {bf:`DUPS'} option not allowed"
  exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = ``S_`sname'
= sreturn local level = `95'
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local after = `aux'
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local before = `PCAUX '
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local log = `log'
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local deriv = `0'
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local namelist = `cluster'
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local optlist = `CLuster'
- }

```

```

- sreturn local `sname' = ``S_`sname''''
= sreturn local k_fill = ``10''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local k = ``10''
- }

```

---

```

> ----- end _get_diopts -----
- 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 ml -----
- 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
> tr("mlout", 1,max(3,`l')) {
  = if ``di'' == bsubstr("display",1,max(2,2)) | ``di'' == bsubstr("mlou

```

```

> t", 1,max(3,2)) {
- if "`e(opt)'" == "moptimize" {
= if "moptimize" == "moptimize" {
- mopt display `0'
= mopt display , level(95) nofootnote

```

---

```

> ----- begin mopt -----

```

```

- 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 -----
- 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) PPlus noHeader First SHOWEQns NEQ(intege
> r -1) noFOOTnote NOSKIP TTitle(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_diopts -----
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options,

```

---

```

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

---

```

> ----- end opts_exclusive -----

```

```

- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```



```

- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

- exit
> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`nocl' `nopvalues'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

    - opts_exclusive "`versus' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
    }

> ----- end opts_exclusive -----

    - opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
    }

> ----- end opts_exclusive -----

```

```

- 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.Wrapon

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
di as err "invalid fvwrapon() option;"
syntax [, W0rd WIdth]
exit 198
}
- opts_exclusive ``word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

```

---

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

    = 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.GetDiopts 

---


- 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.GetDiopts 

---


- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEl
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLABEL FVLABEL NOCI NOPvalues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle

```



```

> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITTED OMITTED NOLSTRETCH LSTRETCH COEFLegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(
> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(
> passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclusive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____

```

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`emptycells' `noemptycells'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

    - opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
    }

> ----- end opts_exclusive -----

    - opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
    }

> ----- end opts_exclusive -----

```

```

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- 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.Wrapon -----
- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd WIdth]
    exit 198
}
- opts_exclusive ``word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts''' != "" {
= while `''' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}

```



```

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'
  }
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

= 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.GetDiopts -----
- if ``name2'' == "" {
= if ``options'' == "" {
    GetDiopts DUPS, `options'
  }
- else {
- GetDiopts DUPS options, `options'
= GetDiopts DUPS options,

> ----- begin _get_diopts.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASEL
> evels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYce
> lls NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string
> ) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVW
> RAPON(string) NOFVLAbel FVLAbel NOCI NOPValues MARKDOWN CITYPE(passthru) NOA
> BBREV ABBREV

- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEle
> vels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTY
> cells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND c
> format(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(

```

```

> passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPVALUES MARKDOWN CITYTYPE(
> passthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

    - opts_exclusive "`versus' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

```

```

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- 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.Wrapon -----
- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd WIdth]
    exit 198
}
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {

```

```

= if "" != "" {
    FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

```

```

= 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.GetDiopts -----
- c_local `name2' ``options''
= c_local options ``''
- }
- local DUPS : list DUPS - DEFAULT
- gettoken DUPS : DUPS
- if ``DUPS'' != "" {
= if ``'' != "" {
    if (strpos(`DUPS', "(")) {
        gettoken DUPS : DUPS, parse("(")
        local DUPS `DUPS'()'
    }
    di as err "duplicate {bf:`DUPS'} option not allowed"
    exit 198
}
- sreturn clear
- foreach sname of local snames {
- sreturn local `sname' = ``S_`sname''
= sreturn local level = `95'
- }
- sreturn local `sname' = ``S_`sname''
= sreturn local k = `10'
- }

```

```

- sreturn local `sname' = ``S_`sname''''
= sreturn local k_fill = ``10''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local optlist = ``CLuster''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local namelist = ``cluster''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local deriv = ``0''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local log = ``log''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local before = ``PCAUX ''
- }
- sreturn local `sname' = ``S_`sname''''
= sreturn local after = ``aux''
- }

> ----- end _get_diopts -----
- _get_eformopts , eformopts(`options') soptions allowed(__all__)
= _get_eformopts , eformopts() soptions allowed(__all__)

> ----- begin _get_eformopts -----
- 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 RRr tr
> TRatio ]
- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
- }

```

```

- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- 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_eformopts _____
- 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_diparmopts -----
- 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.SpliceGlobals -----
- 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.SpliceGlobals -----
- 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' `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 ``'' == "" {
- 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_diparmopts -----

- if "`header'"==" " {
= if ""==" " {
- _coef_table_header, `title'
= _coef_table_header,

```

---

```

> ----- begin _coef_table_header -----
- 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 i
> nteger >=0) head2right(numlist max=1 integer >=0) head2start(numlist max=1 i
> nteger >=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_iselected = 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.new 

---


- version 16
- syntax [, rclass noDVHeader noMODELtest TITLE(string asis) n
> ocluster 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.New4e 

---


- 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_svysum -----
- 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_svysum -----
- .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"

> ))

= .is_multclust = ((0>1) & ("=="matrix"))
- if `.is_multclust' {
= if 0 {

```

```

        .prop_pushtitle = 1
    }
    - local c2pfix 20
    - if `.is_sem' | `.is_gsem_group' {
= if 0 | 0 {
    local crlen ``e(crittype)'''
    local crlen : smcllength local crlen
    if `crlen' >= `c2pfix' {
        local c2pfix = `crlen' + 2
    }
}
    - if `.is_sum' {
= if 0 {
    if `.linesize' > 62 {
        local offset = `.linesize' - 62
    }
    else local offset 0
    .width = 62 + `offset'
    .c2 = 18
    .c3 = 35 + `offset'
    .c4 = 51 + `offset'
    .c2wfmt = 7
    .c4wfmt = 10
    .scheme = "compact"
}
    - else if `.is_prefix' | `.is_sem' | `.is_gsem_group' {
= else if 0 | 0 | 0 {
    .width = 78
    .c2 = `c2pfix'
    .c3 = 49
    .c4 = 67
    .c2wfmt = 9
    .c4wfmt = 10
    .scheme = "svy"
}
    - if `.is_svy' {
= if 0 {
    local maxlen = `.width' - `.c2' - (`c2wfmt' + 2) - 2 - (`c4' - `.c3'

> )-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 list intreg tobit cpoisson ivtobit eintreg xtintreg xt
> tobit
    - local list2 meintreg metobit stintreg
    - if `:list posof ``.cmd'" in list' | `:list posof ``.cmd2'" i
> n list2' | `:list posof "censored" in props' {
    = if 0 | 0 | 0 {
        .prop_censored = !missing(e(N_unc))
    }
    - if `:list posof "nuncensored" in props' {
    = if 0 {
        .prop_nuncensored = 1
    }
    - local list eintreg
    - if `:list posof ``.cmd'" in list' | `:list posof "iselected"
> in props' {
    = if 0 | 0 {
        .prop_iselected = 1
    }
    - local list eregress eprobit eoprobit
    - if `:list posof ``.cmd'" in list' | `:list posof "selected"
> in props' {
    = if 0 | 0 {
        .prop_selected = 1
    }
    - if `:list posof "groups" in props' {
    = if 0 {
        .prop_groups = 1
        .groupvar = ``e(repanvar)'"
        .intmethod = ``e(reintmethod)'"
        .intpoints = e(reintpoints)
    }
    - local list xtreg xtprobit xtlogit xtcloglog xtfrontier xtint
> reg xtnbreg
    - local list `list' xtpoisson xttobit xtmlogit xtrc
    = local list xtreg xtprobit xtlogit xtcloglog xtfrontier xtint
> reg xtnbreg xtpoisson xttobit xtmlogit xtrc
    - local list2 xtlogit xtprobit xtologit xtmlogit
    - if `:list posof ``.cmd'" in list' | `:list posof ``.cmd2'" i
> n 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.new -----
- 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.build -----
- version 16
- if "`".title'" == "" {
= if `""' == "" {
- .title = "`".Macro title'"
}

```

```

> ----- begin _coef_table__header.Macro -----
    - version 16
    - class exit ```.result'(`0')'''
    = class exit ```Negative binomial regression```

> ----- end _coef_table__header.Macro -----
    = .title = ```Negative binomial regression```
    - .title2 = ```.Macro title2'''

> ----- begin _coef_table__header.Macro -----
    - version 16
    - class exit ```.result'(`0')'''
    = class exit ```

> ----- end _coef_table__header.Macro -----
    = .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'" == "xtmlogit
> " | ``.cmd2'" == "xtmlogit") {
    }
    else if `.is_stintcox' | `.is_bmareg' {
        .PushLeft ```.title'''
        .PushLeft ```.title2'''
        .title = ""
        .title2 = ""
    }
    else {
        .PushLeft ```.title'''
        if `.is_areg' {
            .PushLeft ```.title2'''
        }
        .title = ""
        .title2 = ""
    }
    }
    - if `.prop_groupvar' | `.is_gsem_group' {
    = if 0 | 0 {
        local groupvar ```.Macro groupvar'''
        if (``groupvar''' != "" & `.is_stintcox') {

```

```

local s = cond(`:word count `groupvar'>1, "s","")
local grpvar = abbrev("`groupvar'",`.ablen')
.PushLeft "Strata variable`s': {res}`grpvar'"
}
else if ```groupvar'"" != "" {
local grpvar = abbrev("`groupvar'",`.ablen')
.PushLeft "Grouping variable: {res}`grpvar'"
}
}
- if (`.is_stintcox') {
= if (0) {
.PushLeft ""
local ndep = e(k_dv)
if (`ndep'==2) {
tokenize `e(depvar)'
local ltime `1'
local rtime `2'
.PushLeft "Event-time interval:"
.PushLeft " Lower endpoint: {res}`ltime'"
.PushLeft " Upper endpoint: {res}`rtime'"
if ``e(strata)"" != "" {
.PushLeft ""
}
}
else {
.PushLeft "ID variable: {res}`e(id)'"
.PushLeft "Examination time: {res}`e(depvar)'"
.PushLeft "Status indicator: {res}`e(status)'"
}
}
- if `is_svy' {
= if 0 {
.BuildLeft4svy
}
- else if `is_prefix' {
= else if 0 {
if !`.is_margins' {
.Build4strata
}
}
- if (`.is_tab' | `is_sum') & !missing(`.result'(N_stdize)) {
= if (0 | 0) & !missing(e(N_stdize)) {
.PushLeft "N. of std strata" " = " "as res" %`.c2wfmt'.0fc `
> .result'(N_stdize)
}
- .Build4tvar

```

```

> ----- begin _coef_table__header.Build4tvar -----
- version 16
- if `.opt_tvar' == 0 {
= if 1 == 0 {
  exit
}
- if ``.Macro tvar'' == "" {

> ----- begin _coef_table__header.Macro -----
- version 16
- class exit ```.result'(`0')'''
= class exit `'''

> ----- end _coef_table__header.Macro -----
= if "" == "" {
- exit

> ----- end _coef_table__header.Build4tvar -----
- if (!missing(`.Scalar N') & `.is_demandn'==0 & !`.is_bmareg'
> ) {

> ----- begin _coef_table__header.Scalar -----
- version 16
- class exit ```= `.result'(`0')'''
= class exit `"218"'

> ----- end _coef_table__header.Scalar -----
= if (!missing(218) & 0==0 & !0) {
- .PushRight "Number of obs" " = " "as res" %`.c4wfmt'.0fc `.S
> calar N'

> ----- begin _coef_table__header.Scalar -----
- version 16
- class exit ```= `.result'(`0')'''
= class exit `"218"'

> ----- end _coef_table__header.Scalar -----
= .PushRight "Number of obs" " = " "as res" %10.0fc 218

> ----- begin _coef_table__header.PushRight -----
- version 16
- gettoken tok rest : 0
- gettoken eq rest : rest
- gettoken dias rest : rest
- if `:length local rest' {

```

```

= if 12 {
- local direst = ustrltrim("` : di `rest'")
= local direst = ustrltrim("      218")
- .ralignr = max(`.ralignr', udstrlen("`direst'"))
= .ralignr = max(0, udstrlen("218"))
- local len : di ``tok'""
= local len : di ``Number of obs'
- local len : smcllength local len
- .lalignr = max(`.lalignr', `len')
= .lalignr = max(0, 13)
- .right.Arrpush `'.C3' ``{lalign `'.lalignr':`tok'}"" `'.C4
> ' ``eq'"" `dias' "{ralign `'.ralignr':`direst'}"
= .right.Arrpush `'.C3' ``{lalign `'.lalignr':Number of obs}""
> `'.C4' " = " as res "{ralign `'.ralignr':218}"
- }
- else if `:length local tok' {
= else if 13 {
. right.Arrpush `'.C3' ``tok'""
}
- else {
. right.Arrpush
}
}

> ----- end _coef_table__header.PushRight -----
- }
- if `.is_demandn' {
= if 0 {
if (e(N_estat_dsys)==.`e(N_estat_dsys)'""=="") {
.PushRight "Number of obs" " = " "as res" %`.c4wfmt'.0fc `.S
> calar N'
}
else {
.PushRight "Number of obs" " = " "as res" %`.c4wfmt'.0fc e(N
> _estat_dsys)
}
}
- if `.is_demand' {
= if 0 {
.PushRight "Number of goods" " = " "as res" %`.c4wfmt'.0fc e
> (n_goods)
.PushLeft "Expenditure variable: {result:`e(expenditures)}"
}
- if `.is_demand' {
= if 0 {
if (``e(piconstant)'""!="") {
.PushRight "Price index constant" " = " "as res" %`.c2wfmt'.

```

```

> 4gc e(piconstant)
    .PushLeft ""
    }
    if (e(n_demos)>0) {
    local scaling = strproper("`e(demo_type)'")
    .PushLeft `"Demographic method: {text:`scaling'}"'
    .PushRight "Number of demographics" " = " "as res" %`.c2wfmt
> '.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'.0fc
> `e(N_groups)'
    .PushRight "Number of cohorts" " = " "as res" %`.c4wfmt'.0fc
> `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 correl
> ation}" " = " "as res" %`.c4wfmt'.4f e(sampcorr)
    }
    .PushRight "No. of obs" " = " "as res" %`.c4wfmt'.0fc `.Scal
> ar N'
    .PushRight "No. of predictors" " = " "as res" %`.c4wfmt'.0fc
> 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(burnin)
      .PushRight "MCMC sample size" " = " "as res" %`.c4wfmt'.0fc
> e(mcmcsample)
      .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'.0fc
> e(N_panels)
    }
- if !missing(`.Scalar N_sub') & `.is_stintcox' {


---


> 

---

 begin _coef_table__header.Scalar 

---


    - version 16
    - class exit ``'= `.result'(`0')''
    = class exit `".''


---


> 

---

 end _coef_table__header.Scalar 

---


    = if !missing(.) & 0 {
        .PushRight "Number of subjects" " = " "as res" %`.c4wfmt'.0fc
> c `.Scalar N_sub'
    }
    - if `.is_areg' {
    = if 0 {
        .PushRight "No. of categories" " = " "as res" %`.c4wfmt'.0fc
> e(k_absorb)
    }
    - if `.is_sem' | `.is_gsem_group' {
    = if 0 | 0 {
        if ```.Macro groupvar''' != "" {
            .PushRight "Number of groups" " = " "as res" %`.c4wfmt'.0fc
> `.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_iselected' {
= if 0 {
    .Build4title
    .Build4iselected
    }
- if `.prop_censored' {
= if 0 {
    .Build4title
    .Build4censobs
    if !`.is_prefix' {
    .PushRight
    }
    }
- .Build4cluster
}

> ----- begin _coef_table__header.Build4cluster -----
- version 16
- if `.is_multclust' {
= if 0 {
    .Build4mclust
    exit
    }
- if missing(`.Scalar N_clust') {
}

> ----- begin _coef_table__header.Scalar -----
- version 16
- class exit ```= `.result'(`0')''''
= class exit ``".''

> ----- end _coef_table__header.Scalar -----
= if missing(.) {

```

```

- exit
> ----- end _coef_table__header.Build4cluster -----
- .Build4reps
> ----- begin _coef_table__header.Build4reps -----
- version 16
- if !missing(`.Scalar N_reps') {
> ----- begin _coef_table__header.Scalar -----
- version 16
- class exit ```= `.result'(`0')''''
= class exit ``.``'
> ----- end _coef_table__header.Scalar -----
= if !missing(.) {
.PushRight "Replications" " = " "as res" %`.c4wfmt'.0fc `.`
> Scalar N_reps'
if `.prop_censored' & !`.is_svy' {
.PushRight
}
}
> ----- end _coef_table__header.Build4reps -----
- }
- if `.prop_groups' {
= if 0 {
.Build4groups
}
- if `.is_stintcox' & ``e(strata)'' != "" {
= if 0 & "" != "" {
if `ndep' == 2 {
.PushRight
}
}
- .Build4modeltest
> ----- begin _coef_table__header.Build4modeltest -----
- 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.Macro _____
      - version 16
      - class exit ```.result'(`0')'''
      = class exit ``1'''
      _____
> _____ end _coef_table__header.Macro _____
      = if ``1''' == "0" {
        exit
      }
      - if missing(`.Scalar df_m') {
        _____
> _____ begin _coef_table__header.Scalar _____
        - version 16
        - class exit ```= `.result'(`0')'''
        = class exit ``8'''
        _____
> _____ end _coef_table__header.Scalar _____
        = if missing(8) {
          exit
        }
        - if ```.Macro chi2''' != "" | ```.Macro df_r''' == "" {
          _____
> _____ begin _coef_table__header.Macro _____
          - version 16
          - class exit ```.result'(`0')'''
          = class exit ``238.8689440704896'''
          _____
> _____ end _coef_table__header.Macro _____
          _____
> _____ begin _coef_table__header.Macro _____
          - version 16
          - class exit ```.result'(`0')'''
          = class exit `'''
          _____
> _____ end _coef_table__header.Macro _____
          = if ``238.8689440704896''' != "" | `''' == "" {
            - .Build4chi2test
            _____
> _____ begin _coef_table__header.Build4chi2test _____
            - version 16
            - local type `e(chi2type)'
            = local type Wald
            - if ``type''' == "" {

```

```

= if `"Wald"' == "" {
  local type Wald
}
- local didf = strtrim("` : di e(df_m)'")
= local didf = strtrim("8")
- if !missing(e(chi2)) {
- .PushRight "`type' chi2({res:`didf'})" " = " "as res" %`
> .c4wfmt'.2f e(chi2)
= .PushRight "Wald chi2({res:8})" " = " "as res" %10.2f e(
> chi2)

> ----- begin _coef_table__header.PushRight -----
- 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(" 238.87")
- .ralignr = max(`.ralignr', udstrlen("`direst'"))
= .ralignr = max(3, udstrlen("238.87"))
- local len : di ``tok'""
= local len : di `"Wald chi2({res:8})"'
- local len : smcllength local len
- .lalignr = max(`.lalignr', `len')
= .lalignr = max(13, 12)
- .right.Arrpush `\.C3' ``{lalign `\.lalignr':`tok}'" \
> `\.C4' ``eq' ``dias' "{ralign `\.ralignr':`direst}'"
= .right.Arrpush `\.C3' ``{lalign `\.lalignr':Wald chi2({r
> es:8}})" `\.C4' " = " as res "{ralign `\.ralignr':238.87}"
- }
- else if `:length local tok' {
= else if 18 {
  .right.Arrpush `\.C3' ``tok'""
}
- else {
  .right.Arrpush
}

> ----- end _coef_table__header.PushRight -----
- .PushRight "Prob > chi2" " = " "as res" %`.c4wfmt'.4f ch
> i2tail(e(df_m),e(chi2))
= .PushRight "Prob > chi2" " = " "as res" %10.4f chi2tail(
> e(df_m),e(chi2))

```

```

> ----- begin _coef_table__header.PushRight -----
    - 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 > chi2}
> "" `\.C4' " = " as res "{ralign `\.ralignr':0.0000}"
    - }
    - else if `:length local tok' {
    = else if 11 {
    .right.Arrpush `\.C3' `""tok'""
    }
    - else {
    .right.Arrpush
    }
    }

> ----- end _coef_table__header.PushRight -----
    - }
    - else {
    local j_robust "{help j_robustsingular##|_new:`type' chi
> 2(`didf')}""

    .PushRight "`j_robust'" " = " "as res" %`.c4wfmt's "."
    .PushRight "Prob > chi2" " = " "as res" %`.c4wfmt's "."
    }

> ----- end _coef_table__header.Build4chi2test -----
    - }
    - else {
    .Build4Ftest
    }

> ----- end _coef_table__header.Build4modeltest -----
    - .Build4r2

```

```

> ----- begin _coef_table__header.Build4r2 -----
- 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.PushRight -----
- 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(" 0.1708")
- .ralignr = max(`.ralignr', udstrlen("`direst"))
= .ralignr = max(6, udstrlen("0.1708"))
- local len : di ``tok'""
= local len : di ``Pseudo R2'""
- local len : smcllength local len
- .lalignr = max(`.lalignr', `len')
= .lalignr = max(13, 9)
- .right.Arrpush `C3' ``{lalign `lalignr':`tok}'"" `.`
> C4' ``eq'"" `dias' "{ralign `lalignr':`direst'}"
= .right.Arrpush `C3' ``{lalign `lalignr':Pseudo R2}'"" `
> .C4' " = " as res "{ralign `lalignr':0.1708}"
- }
- else if `:length local tok' {
= else if 9 {
  .right.Arrpush `C3' ``tok'""
}
- else {
  .right.Arrpush
}
> ----- end _coef_table__header.PushRight -----

```



```

- }
- 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(rmse)
  }
}
}
> ----- end _coef_table__header.Build4r2 -----
- .Build4title
}
> ----- begin _coef_table__header.Build4title -----
- version 16
- if `'.opt_septitle' {
= if 0 {
  exit
}
- if `'.title' == "" {
= if `"Negative binomial regression" == "" {
  exit
}
- if `'.left.arnels' {
= if 0 {
  exit
}
- local title `'.title'
= local title Negative binomial regression
- local title2 `'.title2'
= local title2
- local len : smcllength local title
- local len2 : smcllength local title2
- if `len2' > `len' {
= if 0 > 28 {
  local len = `len2'
}
- if `len' < (`c3' - 2) - (`c1' - 1) {
= if 28 < (49 - 2) - (1 - 1) {
- PushLeft `'.title'
= PushLeft `"Negative binomial regression"
}
}
> ----- begin _coef_table__header.PushLeft -----
- 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'}"'" `\.C
> 2' ""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 _____

- .title = ""
- if `len2' {
= if 0 {
  PushLeft `""title2'""
  .title2 = ""
  }
- }
- .opt_septitle = 1

> _____ end _coef_table__header.Build4title _____

- 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.objke

```

```

> y') c3(`.c3') c4(`.c4') c4wfmt(`.c4wfmt')
    }
    }
- .Build4crit

```

---

```

> ----- begin _coef_table__header.Build4crit -----
- version 16
- if "`result'" != "e" {
= if "e" != "e" {
    exit
    }
- local offset 1
- local hascrit = !missing("`e(ll)'"') & !missing("`e(crit
> type)'"')
= local hascrit = !missing("`-367.1242827427072'"') & !missin
> g("`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.FillLeft -----
- version 16
- args offset
- local kr = `.right.arnels'
= local kr = 4
- local kl = `.left.arnels'
= 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.FillLeft -----
- if `""DISPERS"" != "" {
= if `""Dispersion: {res:mean}"" != "" {
- .PushLeft `DISPERS'
= .PushLeft "Dispersion: {res:mean}"

```

---

```

> ----- begin _coef_table__header.PushLeft -----
- 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'}" ` \.C
> 2' ""eq"" `dias' "{ralign `'.ralignl':`direst'}"
  }
- else if `:length local tok' {
= else if 22 {
- .left.Arrpush `'.C1' `""tok'""
= .left.Arrpush `'.C1' `""Dispersion: {res:mean}""
- }
- else {
  .left.Arrpush
  }

```

---

```

> ----- end _coef_table__header.PushLeft -----
- }
- local crtype = upper(bsubstr("`e(crittype)'",1,1)) + bsu
> bstr("`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 "`crtype" " = " "as res" %10.0g e(critval
> ue)

```

```

    }
    - else if `hascrit' {
    = else if 1 {
    - if `.is_gsem_group' {
    = if 0 {
        local dill = strtrim("` : di %10.0g e(ll)'")
        .PushLeft "`crtype' = {res:`dill'}"
    }
    - else {
    - .PushLeftRalign "`crtype" " = " "as res" %10.0g e(ll)
    = .PushLeftRalign "Log pseudolikelihood" " = " "as res" %10.
> 0g e(ll)

-----
> ----- begin _coef_table__header.PushLeftRalign -----
    - version 16
    - gettoken tok rest : 0
    - gettoken eq rest : rest
    - gettoken dias rest : rest
    - if `:length local rest' {
    = if 13 {
    - local direst : di `rest'
    = local direst : di %10.0g e(ll)
    - local direst = strtrim("`direst'")
    = local direst = strtrim("-367.12428")
    - local len : smcllength local direst
    - .ralignla = max(`.ralignla', `len')
    = .ralignla = max(0, 10)
    - local len : di ``tok'""
    = local len : di ``Log pseudolikelihood""
    - local len : smcllength local len
    - .lalignla = max(`.lalignla', `len')
    = .lalignla = max(0, 20)
    - .left.Arrpush `C1' ``{lalign`.lalignla':`tok'}"" `\.
> C2a' ``eq'"" `dias' "{ralign`.lalignla':`direst'}"
    = .left.Arrpush `C1' ``{lalign`.lalignla':Log pseudolike
> lihood}"" `C2a' " = " as res "{ralign`.lalignla':-367.12428}"
    - }
    - else if `:length local tok' {
    = else if 20 {
        .left.Arrpush `C1' ``tok'""
    }
    - else {
        .left.Arrpush
    }
-----
> ----- end _coef_table__header.PushLeftRalign -----

```

```

- }
- }

```

---

```

> ----- end _coef_table__header.Build4crit -----
- .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.build -----
- if ("`head2start'" != "") {
= if ("'" != "") {
  .`obj'.c3 = `head2start'
  .`obj'.c4 = `head2start' + `.`obj'.lalignr'
  .`obj'.width = `head2start' + `.`obj'.lalignr' + `.`obj'.ralig
> nr' + 2
  }
- if (`has_obj' == 0) {
= if (0 == 0) {
  - .`obj'.display
= .__000007.display

```

---

```

> ----- begin _coef_table__header.display -----
- version 16
- .ShowRules

```

---

```

> ----- begin _coef_table__header.ShowRules -----
- 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.ShowRules -----
- local nl = `.left.arnels'

```

```

= local nl = 4
- local nr = `.right.arnels'
= 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.C1 -----
- version 16
- class exit `"_col(`.c1')"'
= class exit `"_col(1)"'

> ----- end _coef_table__header.C1 -----

> ----- begin _coef_table__header.C3 -----
- version 16
- class exit `"_col(`.c3')"'
= class exit `"_col(57)"'

> ----- end _coef_table__header.C3 -----

> ----- begin _coef_table__header.C4 -----
- version 16
- class exit `"_col(`.c4')"'
= class exit `"_col(70)"'

> ----- end _coef_table__header.C4 -----
= display as smcl as txt _col(1) `Negative binomial regressio
> n"' as txt _col(57) `{lalign 13:Number of obs}' _col(70) " = " as res "{ra
> lign 6:218}"
Negative binomial regression                                Number of obs =      218

```

```

- }
- display as smcl as txt `.left['i']' as txt `.right['i']'
_____
> _____ begin _coef_table__header.C3 _____
- version 16
- class exit `"_col(`.c3')"'
= class exit `"_col(57)"'
_____
> _____ end _coef_table__header.C3 _____
_____
> _____ begin _coef_table__header.C4 _____
- version 16
- class exit `"_col(`.c4')"'
= class exit `"_col(70)"'
_____
> _____ end _coef_table__header.C4 _____
= display as smcl as txt as txt _col(57) ``{lalign 13:Wald ch
> i2({res:8})}"" _col(70) " = " as res "{ralign 6:238.87}"
Wald chi2(8) = 238.87
- }
- display as smcl as txt `.left['i']' as txt `.right['i']'
_____
> _____ begin _coef_table__header.C1 _____
- version 16
- class exit `"_col(`.c1')"'
= class exit `"_col(1)"'
_____
> _____ end _coef_table__header.C1 _____
_____
> _____ begin _coef_table__header.C3 _____
- version 16
- class exit `"_col(`.c3')"'
= class exit `"_col(57)"'
_____
> _____ end _coef_table__header.C3 _____
_____
> _____ begin _coef_table__header.C4 _____
- version 16
- class exit `"_col(`.c4')"'
= class exit `"_col(70)"'
_____
> _____ end _coef_table__header.C4 _____
= 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.C1 _____
- version 16
- class exit `"_col(`.c1')"'
= class exit `"_col(1)"'
_____
> _____ end _coef_table__header.C1 _____
_____
> _____ begin _coef_table__header.C2a _____
- version 16
- class exit `"_col(`.c2a')"'
= class exit `"_col(21)"'
_____
> _____ end _coef_table__header.C2a _____
_____
> _____ begin _coef_table__header.C3 _____
- version 16
- class exit `"_col(`.c3')"'
= class exit `"_col(57)"'
_____
> _____ end _coef_table__header.C3 _____
_____
> _____ begin _coef_table__header.C4 _____
- version 16
- class exit `"_col(`.c4')"'
= class exit `"_col(70)"'
_____
> _____ end _coef_table__header.C4 _____
= display as smcl as txt _col(1) `{lalign 20:Log pseudolikeli
> hood}' _col(21) " = " as res "{ralign 10:-367.12428}" as txt _col(57) `{lalign 13:Pseudo R2}' _col(70) " = " as res "{ralign 6:0.1708}"
Log pseudolikelihood = -367.12428 Pseudo R2 = 0.1708
- }
_____
> _____ end _coef_table__header.display _____
- }
- 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_header -----
- di

- }
- _coef_table, `first' level(`level') `neqopt' `plus' `noskip' `sh
> oweqns' `diopts' `options' `notest'
= _coef_table, level(95)

```

---

```

> ----- begin _coef_table -----
- version 11
- local vv : di "version " string(max(11,_caller())) ", missing:
> "

- if (!c(noisily) & c(coeftabresults) == "off") {
  exit
}
- _check_eclasse
- syntax [, BMATrix(passthru) VMATrix(passthru) * ]
- if "`e(b)'" == "" & "`e(V)'" == "" & "`bmatrix'`vmatrix'" == ""
> {

= if "matrix" == "" & "matrix" == "" & "" == "" {
  exit
}
- local mc_cmds contrast margins pwcompare pwmean
- local cmd "`e(cmd)'"
= local cmd "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(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) R
> OWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(stri
> ng) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string) P
> CLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(stri
> ng asis) `beta' `standardized' NOCI NOPValues `dftable' `dfonly' dfci DFPVal
> ues dfmissing `groups' COEFLegend selegend `fvignore' `flignore' `showginvar
> iant' `nolabel' `nofootnote' `wrap' sort `pisematrix' depname(string) COEFTi
> tle(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEgend noC
> NSReport FULLCNSReport `noclustreport' cformat(passthru) sformat(passthru) p
> format(passthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SEPa
> rator(integer 0) NOSKIP OFFSETONLY1 PPlus NOEQCHECK EFORMALL CITYPE(string) e
> qselect(string) noEFORMNOTE * ]

= syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) R
> OWCFormat(string) ROWPFormat(string) ROWSFormat(string) NOROWCI MMATrix(stri
> ng) MVMATrix(string) MEMATrix(string) BSTDMATrix(string) CNSMATrix(string) P
> CLASSMATrix(string) Level(cilevel) prefix(name) suffix(name) OFFSETlist(stri
> ng asis) NOCI NOPValues dfci DFPValues dfmissing COEFLegend selegend
> sort depname(string) COEFTitle(string) coeftitle2(string) ptitle(string)
> ) cititle(string) NOMCLEgend noCNSReport FULLCNSReport cformat(passthru) sf
> ormat(passthru) pformat(passthru) NOFirst First SHOWEQns neq(integer -1) NOD
> IPARM NOTEST SEPARATOR(integer 0) NOSKIP OFFSETONLY1 PPlus NOEQCHECK EFORMALL
> 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- if (``rowmatrix'=="" & "`norowci'!="") {
= if (``'=="" & ""!="") {
  di as err "{bf:norowci} requires {bf:rowmatrix()}"
  exit 198
}
- if (``dftable'!="" & "`norowci'!="") {
= if (""!="" & ""!="") {
  di as err "{bf:norowci} is not allowed with {bf:`dftable'}"
  exit 198
}
- if (``dfonly'!="" & "`norowci'!="") {
= if (""!="" & ""!="") {

```

```

        di as err "{bf:norowci} is not allowed with {bf:`dfonly'}"
        exit 198
    }
- if ("`noci'" != "" & "`norowci'" != "") {
= if ("'" != "" & "'" != "") {
    di as err "{bf:norowci} is not allowed with {bf:`noci'}"
    exit 198
}
- if "`standardized'" != "" & "`bstdmatrix'" != "" {
= if "" != "" & "" != "" {
    local beta beta
    local standardized
}
- if `:length local type' == 0 {
= if 0 == 0 {
- local type `beta' `noci' `nopvalues' `dftable' `dfonly' `group
> s' `dfci' `dfpvalues'
    = local type
    - }
    - opts_exclusive "`type'"
    = opts_exclusive ""
}

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`first' `nofirst'"
= opts_exclusive " "
}

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`first' `showeqns'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- local cnsreport `cnsreport' `fullcnsreport'
= local cnsreport
- opts_exclusive "`cnsreport'"
= opts_exclusive ""

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- 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_mcompare -----
- version 11
- local cmd ``e(cmd)'''
= local cmd `nbreg'
- syntax [name(name=caller)] [, *]
- local is_pwc = inlist("pwcompare", "`cmd'", "`caller'") | in
> list("pwmean", "`cmd'", "`caller'")
= local is_pwc = inlist("pwcompare", "nbreg", "") | inlist("pw
> mean", "nbreg", "")
- local is_marg = inlist("margins", "`cmd'", "`e(cmd2)'", "`ca
> ller'")
= local is_marg = inlist("margins", "nbreg", "", "")
- 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 `''''
- 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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'"" != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - 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_exclusive -----
- 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_exclusive -----
- 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_mcompare _____
>
        - 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- if "`method'" == "dunnett" {
= if "noadjust" == "dunnett" {
    opts_exclusive "`method' `groups'"
}
- _get_diopts diopts options, `options' `fvwrap' `fvlabel'
= _get_diopts diopts options,

> ----- begin _get_diopts -----
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options,

> ----- begin _get_diopts.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(str
> ing) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP

```

```

> E(passthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding' `compare'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`versus' `compare'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
}

```



```

> ----- end opts_exclusive -----
    - opts_exclusive ``abbrev' `noabbrev'
    = opts_exclusive " "
    -----

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    -----

> ----- end opts_exclusive -----
    - 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.Wrapon -----
- 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
}

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {

```

```

        FWWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

    = c_local diopts
    - if `K' == 2 {
    = if 2 == 2 {
    - c_local `c_opts' ``options''
    = c_local options `''
    - }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95



---


> 

---

 end _get_diopts.GetDiopts 

---


    - 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.GetDiopts 

---


    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(strin
> g) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV

    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP

```

```

> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
    }
}
> ----- end opts_exclusive -----
    - opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit
    }
}
> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"

```

```

= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> 

---

 end opts_exclusive 

---


    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> 

---

 end opts_exclusive 

---


    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0

```



```

- while ``opts'' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {

```

```

        = if 0 < 2 {
        - exit
    }
> ----- end opts_exclusive -----
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while "`opts'" != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }
> ----- end opts_exclusive -----
    - 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.Wrapon -----
    - 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_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit

> ----- end opts_exclusive -----
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

```

```

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
      FVWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2'' == "" {
    = if ``options'' == "" {
      GetDiopts DUPS, `options'
    }
    - else {
    - GetDiopts DUPS options, `options'
    = GetDiopts DUPS options,
  -----

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV

    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP

```

```

> E(passthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {

```

```

= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

```



```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding' `compare'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`versus' `compare'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
}

```

```

> ----- end opts_exclusive -----
    - opts_exclusive ``abbrev' `noabbrev'
    = opts_exclusive " "
    -----

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    -----

> ----- end opts_exclusive -----
    - 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.Wrapon -----
- 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
  c_local fvwrapon fvwrapon(`fvwrapon')
}

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {

```

```

        FWWrap, `fvwrap'
    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts 

---


    - c_local `name2' ``options'''
    = c_local options `'''
    - }
    - local DUPS : list DUPS - DEFAULT
    - gettoken DUPS : DUPS
    - if ``DUPS''' != "" {
    = if `''' != "" {
        if (strpos(`DUPS'', "(")) {
            gettoken DUPS : DUPS, parse("(")
            local DUPS `DUPS'()'
        }
        di as err "duplicate {bf:`DUPS'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
    - sreturn local `sname' = ``S_`sname'''
    = sreturn local level = `95'
    - }
    - sreturn local `sname' = ``S_`sname'''
    = sreturn local method = `noadjust'
    - }

```

---

```

> ----- end _get_diopts -----
    - 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_diopts -----
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options,
    -----

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(strin
> g) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    -----

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

```



```

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> 

---

 end opts_exclusive 

---


- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> 

---

 end opts_exclusive 

---


- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {

```

```

- exit


---


> 

---

 end opts_exclusive 

---


- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
local ++n
gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> 

---

 end opts_exclusive 

---


- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
local ++n
gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> 

---

 end opts_exclusive 

---


- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "


---



```

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon _____
- capture syntax [, W0rd 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
  c_local fvwrapon fvwrapon(`fvwrapon')
}

```

---

```

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- 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' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abb
> rev'

= c_local diopts
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' ``options'
= c_local options `"'

```

```

- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

```

---

```

> ----- end _get_diopts.GetDiopts -----
- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(str
> ing) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```



```

- local n 0
- while ``opts'' != "" {
= while `'' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {

```

```

- exit
> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist

```

```

- opts_exclusive "`coding' `compare'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
  }
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- 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')
}
- Wraon , `fvwraon'
= Wraon ,

```

```

> ----- begin _get_diopts.Wrapon -----
- 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_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
-----

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
  c_local fvwrapon fvwrapon(`fvwrapon')
}
-----

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2' == "" {
= if ``' == "" {
    - GetDiopts DUPS, `options'
= GetDiopts DUPS,

```

---

```

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels'
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while ``' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclusive -----

```

```

- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> 

---

 end opts_exclusive 

---


- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit


---


> 

---

 end opts_exclusive 

---


- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "


---


> 

---

 begin opts_exclusive 

---


- version 8.2
- args opts optname errcode optslab

```

```

- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }

```

```

- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon \_\_\_\_\_

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
  di as err "invalid fvwrapon() option;"
  syntax [, W0rd WIdth]
}

```



```

        exit 198
    }
    - opts_exclusive "`word' `width'" fwrapon
= opts_exclusive " " fwrapon


---


> 

---

 begin opts_exclusive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> 

---

 end opts_exclusive 

---


    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }


---


> 

---

 end _get_diopts.Wrapon 

---


    - if "`fwrap'" != "" {
    = if "" != "" {
        FVWrap, `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' `nocl' `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.GetDiopts -----
    - }
    - else {
        GetDiopts DUPS options, `options'
        c_local `name2' ``options'
    }
    - local DUPS : list DUPS - DEFAULT
    - gettoken DUPS : DUPS
    - if ``DUPS' != "" {
= if `"' != "" {
        if (strpos(`DUPS', "(")) {
            gettoken DUPS : DUPS, parse("(")
            local DUPS `DUPS'()'
        }
        di as err "duplicate {bf:`DUPS'} option not allowed"
        exit 198
    }
    - sreturn clear
    - foreach sname of local snames {
        - sreturn local `sname' = ``S_`sname'
= sreturn local level = `95'
    }
    - sreturn local `sname' = ``S_`sname'
= sreturn local method = `noadjust'
    - }
}
> ----- end _get_diopts -----
    - local cformat ``s(cformat)'
= local cformat `"'
    - local sformat ``s(sformat)'
= local sformat `"'
    - local pformat ``s(pformat)'
= local pformat `"'
    - _get_eformopts , eformopts(`options') allowed(__all__) option
> s
= _get_eformopts , eformopts() allowed(__all__) options
}
> ----- begin _get_eformopts -----
    - 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
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- if ```eform1''`'=="Odds ratio" {
= if `""'=="Odds ratio" {
  local eform_cons_ti = "Odds"
  local eform_cons_note = "odds ratios"
}

```

```

- else if ``eform1''=="Haz. ratio" {
= else if `"'=="Haz. ratio" {
    local eform_cons_ti = "Hazard"
    local eform_cons_note = "hazard ratios"
}
- else if ``eform1''=="Time ratio" {
= else if `"'=="Time ratio" {
    local eform_cons_ti = "Time"
    local eform_cons_note = "time ratios"
}
- else if ``eform1''=="IRR" {
= else if `"'=="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_ti2 = "incidence rate"
}
- else if ``eform1''=="Risk ratio" {
= else if `"'=="Risk ratio" {
    local eform_cons_ti = "Risk"
    local eform_cons_note = "risk ratios"
}
- else if ``eform1''=="Hlth ratio" {
= else if `"'=="Hlth ratio" {
    local eform_cons_ti = "Health"
    local eform_cons_note = "health ratios"
}
- local k : list sizeof eform
- if `k' {
= if 0 {
    opts_exclusive ``eform'
    if `:length local eform1' {
    opts_exclusive "eform() `eform'"
    }
}
- if `k' {
= if 0 {
    if (``eform'=="eform") local eform1 = "exp(b)"
    else if (``eform'=="hr") {
        local eform1 = "Haz. ratio"
        local eform_cons_ti = "Hazard"
        local eform_cons_note = "hazard ratios"
    }
    else if (``eform'=="shr") {
        local eform1 = "SHR"
        local eform_cons_ti = "Subhazard"
        local eform_cons_note = "subhazard ratios"
    }
}

```

```

}
else if ("`eform`"=="tr") {
  local eform1 = "Time ratio"
  local eform_cons_ti = "Time"
  local eform_cons_note = "time ratios"
}
else if ("`eform`"=="tratio") {
  local eform1 = "Time ratio"
  local eform_cons_ti = "Time"
  local eform_cons_note = "time ratios"
}
else if ("`eform`"=="or") {
  local eform1 = "Odds ratio"
  if ("`e(cmd)`"=="asclogit" | "`e(cmd)`"=="cmclogit" | "`e(cm
> d)`"=="cmmixlogit" | "`e(cmd)`"=="cmxtmixlogit" ) {
    local eform_cons_ti = "Rel. risk"
    local eform_cons_note = "relative-risk ratios"
    local eform_cons_ti2 = "relative risk"
  }
  else {
    local eform_cons_ti = "Odds"
    local eform_cons_note = "odds ratios"
  }
}
else if ("`eform`"=="irr") {
  local eform1 = "IRR"
  local eform_cons_ti = "Inc. rate"
  local eform_cons_note = "incidence-rate ratios"
  local eform_cons_ti2 = "incidence rate"
}
else if ("`eform`"=="rrr") {
  local eform1 = "RRR"
  local eform_cons_ti = "Rel. risk"
  local eform_cons_note = "relative-risk ratios"
  local eform_cons_ti2 = "relative risk"
}
else if ("`eform`"!="nohr") & ("`eform`"!="noshr") {
  local eform1 = upper("`eform`")
}
}

- sreturn clear
- sreturn local options ```opts`''
= sreturn local options `""`
- sreturn local opt `eform'
= sreturn local opt
- sreturn local str `eform1'

```

```

= sreturn local str
- if ``eform1'' != "" {
= if ``'' != "" {
    sreturn local eform eform(`eform1'')
  }
- else sreturn local eform ""
- sreturn local eform_cons_ti `eform_cons_ti'
= sreturn local eform_cons_ti
- sreturn local eform_cons_note `eform_cons_note'
= sreturn local eform_cons_note
- sreturn local eform_cons_ti2 `eform_cons_ti2'
= sreturn local eform_cons_ti2

```

---

```

> ----- end _get_eformopts -----
- 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'', ``ef
> ormdi'')
= local coefttl = cond(`""=="", ``'', ``'')
- local options ``s(options)''
= local options ``''
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)

```

---

```

> ----- begin _get_diparmopts -----
- 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.SpliceGlobals -----
    - 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.SpliceGlobals -----
    - local 0 `", `diparmopts'''
    = local 0 `", ""
    - local diparmopts
    - local k 0
    - syntax [, diparm(string asis) * ]
    - while ``diparm''' != "" {
    = while `''' != "" {
        local ++k
        local single 1
        local after
        capture _on_colon_parse `diparm'
        if !c(rc) {
            local single 0

```

```

local diparm ``s(before)'''
local after ``s(after)'''
}
capture
SpliceGlobals diparm , diparm(`diparm') `syntaxonly' `goptio

> ns'

local diparm`k' ``diparm'''
local diparmopts ``diparmopts' : `diparm'''
if `single' | ``:list retok after''' == "" {
local 0 `", `options'''
syntax [, diparm(string asis) * ]
}
else {
local diparm ``after'''
}
}
- if ``soptions''' == "" {
= if `''' == "" {
- syntax [, diparm(string asis) ]
- }
- if (`execute' == "") {
= if ("" == "") {
- sreturn clear
- sreturn local options ``options'''
= sreturn local options `'''
- sreturn local diparm ``diparmopts'''
= sreturn local diparm `'''
- forval i = 1/`k' {
= forval i = 1/0 {
sreturn local diparm`i' ``diparm`i''''
}
- sreturn local k `k'
= sreturn local k 0
- exit
}

----- end _get_diparmopts -----
>
- local NODIPARM : length local nodiparm
- if `NODIPARM' {
= if 0 {
local options
}
- local GTOPTS parse(":") bind quotes
- local k 0
- if !`NODIPARM' {
= if !0 {
- if ``e(diparm)''' != "" {

```

```

= if `""' != "" {
    local i 0
    local diparm ``e(diparm)''
}
- else if ``e(diparm1)'' != "" {
= else if ``lnalpha, exp label("alpha")'' != "" {
- local i 1
- local diparm ``e(diparm1)''
= local diparm ``lnalpha, exp label("alpha")''
- }
- while `:length local diparm' {
= while 27 {
- gettoken diparm rest : diparm, `GTOPTS'
= gettoken diparm rest : diparm, parse(":") bind quotes
- while `:length local rest' {
= while 0 {
    local ++k
    local diparm`k' : copy local diparm
    gettoken COLON rest : rest, `GTOPTS'
    gettoken diparm rest : rest, `GTOPTS'
}
- local ++k
- local diparm`k' : copy local diparm
= local diparm1 : copy local diparm
- local ++i
- local diparm ``e(diparm`i)''
= local diparm ``''
- }
- while `:length local diparm' {
= while 0 {
    gettoken diparm rest : diparm, `GTOPTS'
    while `:length local rest' {
        local ++k
        local diparm`k' : copy local diparm
        gettoken COLON rest : rest, `GTOPTS'
        gettoken diparm rest : rest, `GTOPTS'
    }
    local ++k
    local diparm`k' : copy local diparm
    local ++i
    local diparm ``e(diparm`i)''
}
- }
- if `:length local options' {
= if 0 {
    local 0 `", `options''

```

```

syntax [, diparm(string asis) *]
if `k' & `:length local diparm' {
local ++k
local diparm`k' __sep__
}
while `:length local diparm' {
gettoken diparm rest : diparm, `GTPTS'
while `:length local rest' {
local ++k
local diparm`k' : copy local diparm
gettoken COLON rest : rest, `GTPTS'
gettoken diparm rest : rest, `GTPTS'
}
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_diopts -----
- version 11
- syntax namelist(max=2) [, *]
- gettoken name1 namelist : namelist
- gettoken name2 namelist : namelist
- GetDiopts diopts options, `options'
= GetDiopts diopts options,

```

---

```

> ----- begin _get_diopts.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPvalues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND

```

```

> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclusive _____
    - version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive ``coeflegend' `selegend'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive ``noci' `nopvalues'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {

```



```

= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding` `compare`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`versus` `compare`"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {

```

```

- exit
> ----- end opts_exclusive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- 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.Wrapon -----
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwrapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
        - exit

> ----- end opts_exclusive -----
    - local fvwrapon `word' `width'
= local fvwrapon
    - if `:length local fvwrapon' {
= if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

> ----- end _get_diopts.Wrapon -----

```

```

- if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'
}
- 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' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abb
> rev'

= c_local diopts
- if `K' == 2 {
= if 2 == 2 {
- c_local `c_opts' ``options'''
= c_local options `'''
- }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95
}

> ----- end _get_diopts.GetDiopts -----

- 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.GetDiopts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV

- syntax namelist(max=2) [, `DIOPTS' *]
```

```

= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]
- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

```

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {

```

```

= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`omitted` `noomitted`"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive "`lstretch` `nolstretch`"
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts`
= local opts
- local n 0
- while `""opts` != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
- if `n` < 2 {
= if 0 < 2 {
- exit
}

```



```

> ----- end opts_exclusive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

> ----- end opts_exclusive -----
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "

> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive ``coding' `compare'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----
- opts_exclusive ``versus' `compare'
= opts_exclusive " "

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}

```

```

    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - 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.Wrapon -----
- capture syntax [, W0rd WIdth]
- if c(rc) {
  di as err "invalid fvwrapon() option;"
  syntax [, W0rd WIdth]
  exit 198
}
- opts_exclusive ``word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts''' != "" {
= while `''' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
  c_local fvwrapon fvwrapon(`fvwrapon')

```

```

    }
}

> ----- end _get_diopts.Wrapon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fvwrap' `fvrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - if ``name2'' == "" {
    = if ``' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,

> ----- begin _get_diopts.GetDiopts -----
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBAS
> Elevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTY
> cells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(stri
> ng) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) F
> VWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) N
> OABBREV ABBREV

    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASE
> levels ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMP
> TYcells EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND
> cformat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRA
> P(passthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYP
> E(passthru) NOABBREV ABBREV *]

```

```

- opts_exclusive "`allbaselevels' `noallbaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclusive -----

- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {

```



```

- exit
> ----- end opts_exclusive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
> ----- end opts_exclusive -----
- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "
> ----- begin opts_exclusive -----
- version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind

```

```

        }
        - if `n' < 2 {
= if 0 < 2 {
        - exit
    }
}
> ----- end opts_exclusive -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding' `compare'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----
    - opts_exclusive "`versus' `compare'"
= opts_exclusive " "
}
> ----- begin opts_exclusive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclusive -----

```

```

- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

```

---

```

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

---

```

> ----- end opts_exclusive -----
- 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.Wrapon -----
- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwrapon() option;"
    syntax [, W0rd WIdth]
    exit 198
    }
- opts_exclusive "`word' `width'" fvwrapon
= opts_exclusive " " fvwrapon

> ----- begin opts_exclusive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'"" != "" {
= while `""' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit

> ----- end opts_exclusive -----
- local fvwrapon `word' `width'
= local fvwrapon
- if `:length local fvwrapon' {
= if 0 {
    c_local fvwrapon fvwrapon(`fvwrapon')
    }

> ----- end _get_diopts.Wrapon -----
- if "`fvwrap'" != "" {
= if "" != "" {
    FVWrap, `fvwrap'

```

```

    }
    - 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' `fvwrapon' `fvlabel' `nocl' `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.GetDiopts -----
    - }
    - 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_diopts -----
> ----- begin _diparm -----
    - version 11
    - if _caller() < 8.2 {
        _diparm_8 `0'
        exit
    }
    - syntax anything(name=eqs) [, Level(cilevel) NOTAB DOF(passth
> ru) BMATrix(passthru) VMATrix(passthru) DFMATrix(passthru) COEFlegend SELEGE
> ND * ]
    - tempname T
    - if `:length local notab' {
    = if 5 {
        - `T' = ._b_diparm.new, level(`level') `dof' `bmatrix' `vmatr
> ix' `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.new -----
    - 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) VMAT
> rix(string) EXTRA(real 1) MCOMPARE(passthru) `ALTOPT' ]
    = syntax [, Level(cilevel) DOF(real -1) BMATrix(string) VMAT

```



```

> rix(string) EXTRA(real 1) MCOMPARE(passthru) ]
      - _get_mcompare, `mcompare'
      = _get_mcompare,


---


> 

---

 begin _get_mcompare 

---


      - version 11
      - local cmd ``e(cmd)'''
      = local cmd ``nbreg'''
      - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", ``cmd'', ``caller'')
> | inlist("pwmean", ``cmd'', ``caller'')
      = local is_pwc = inlist("pwcompare", "nbreg", "") | inlist
> ("pwmean", "nbreg", "")
      - local is_marg = inlist("margins", ``cmd'', ``e(cmd2)''',
> ``caller'')
      = local is_marg = inlist("margins", "nbreg", "", "")
      - local OPTIONS NOADJust BONferroni DUNCAn DUNNett SCHeffe
> 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 SCH
> effe 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_exclusive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'" != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclusive _____
    - if "`METHOD'" == "" {
    = if "" == "" {
    - if "`ALL'" != "" {
    = if "" != "" {
        di as err "multiple comparison method required with the
> adjustall option"
        exit 198
    }
    - local METHOD noadjust
    - local noadjust noadjust
    - }
    - opts_exclusive "`ALL' `noadjust'" `suboption'
    = opts_exclusive " noadjust" mcompare()
    _____
> _____ begin opts_exclusive _____
    - 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_exclusive -----
- 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 fro
> m `cmd''

    exit 322
  }
  if ``e(prefix)'' == "svy" {
    di as err ``method `opt' is not allowed with results usi
> ng the svy prefix''

    exit 322
  }
  local vce ``e(vce)''
  if !inlist("`vce'", "", "ols") {

```

```

di as err ``method `opt' is not allowed with results usi
> ng 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
> `METHOD'""
    exit 198
    }
    }
    - sreturn local method ``METHOD'""
= sreturn local method ``noadjust'
    - sreturn local adjustall ``ALL'""
= sreturn local adjustall ``'

> ----- end _get_mcompare -----
    - if !inlist("`s(method)'", "noadjust", "bonferroni", "sidak
> ") {
= 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 = "piq_timing_max:wlth piq_timing_max:stky_pr_rotem
> berg piq_timing_max:stky_pr_calvo piq_timing_max:wg_ndx piq_timing_max:open
> piq_timing_max:other_channel piq_timing_max:bnkcrdit piq_timing_max:stky_wg
> piq_timing_max:_cons /lnalpha"
- .has_Cns = "`e(Cns)'" == "matrix"
= .has_Cns = "" == "matrix"
- }
- if `:length local vmatrix' {
= if 0 {
    .has_v = 1
    .VMAT = "`vmatrix'"
    }
- if `:length local dfmatrix' {
= if 0 {
    .has_df = 1
    .DFMAT = "`dfmatrix'"
    }
- if `dof' <= 0 {
= if -1 <= 0 {
- local df_r 0
- Chk4PosInt df_r

> ----- begin _b_diparm.Chk4PosInt -----
- 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.Chk4PosInt -----

- if `df_r' {
= if 0 {
    .DF = `df_r'
}
- }
- else {
    .DF = `dof'
}
- if `extra' > 1 {
= if 1 > 1 {
    .EXTRA = `extra'
}

> ----- end _b_diparm.new -----

- .`T'.compute `eqs', `options'
= .__000008.compute lnalpha, exp

> ----- begin _b_diparm.compute -----

- version 11
- version 11
- syntax anything(name=EQS id="equation name(s)") [, NOProb
> Prob EXP TANH ILOGIT INVLOGIT Function(str) Derivative(str) CI(string) ]
- opts_exclusive "`prob' `noprob'"
= opts_exclusive " "

> ----- begin opts_exclusive -----

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> ----- end opts_exclusive -----
    - local probb `probb' `noprobb'
    = local probb
    - 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 specif
> ied"

        exit 198
    }
    - if `fd' {
    = if 0 {
        local fopt "function()"
    }
    - opts_exclusive "`builtin' `fopt'"
    = opts_exclusive "exp "

> ----- begin opts_exclusive -----
    - 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_exclusive -----
    - if `has_b' {
= if 0 {
    local bmat ``.BMAT'''
}
- else {
- local bmat `e(b)'''
- }
- foreach EQ of local EQS {
- if substr(`EQ',1,1) != "/" {
= if substr(`/lnalpha',1,1) != "/" {
- local eq `"/EQ'''
= local eq `/lnalpha'''
- }
- else local eq : copy local EQ
- local el : colnumb `bmat' "`eq'"
= local el : colnumb e(b) "/lnalpha"
- if inlist(`el', "", ".") {
= if inlist(`10', "", ".") {
    di as err "parameter named {bf:`EQ'} not found"
    exit 322
}
- local eqs `eqs' `eq'
= local eqs /lnalpha
- }
- local neq : list sizeof eqs
- if `has_Cns' {
= if 0 {
    tempname Cns C
    matrix `Cns' = e(Cns)
}
- if `neq' != 1 {
= if 1 != 1 {
    local el 0
}
- if `IS_MI' {
= if 0 {
    if `has_df' {
        local df = el(`.DFMAT',1,`el')
    }
}
}
}

```



```

else {
  local df = el(e(df_mi),1,`el')
}
if missing(`df') {
  local df 0
}
}
- else {
- local df = `.DF'
= local df = 0
- }
- tempname z alpha
- scalar `alpha' = (100 - `.LEVEL')/100
= scalar __00000A = (100 - 95)/100
- mata: st_numscalar("`z'", _mc_crit("`METHOD'", `df' == 0
> ? . : `df', st_numscalar("`alpha'", ., `.EXTRA'))
= mata: st_numscalar("__000009", _mc_crit("noadjust", 0 == 0
> ? . : 0, st_numscalar("__00000A"), ., 1))
- local isCns 0
- if `neq' == 1 {
= if 1 == 1 {
- tempname b se
- if `.has_b' {
= if 0 {
  scalar `b' = el(`.BMAT',1,`el')
  if `.has_v' {
    scalar `se' = sqrt(el(`.VMAT',`el',`el'))
  }
  else {
    scalar `se' = 0
  }
}
- else {
- scalar `b' = _b[`eqs']
= scalar __00000B = _b[/lnalpha]
- if "`e(V)'" == "matrix" {
= if "matrix" == "matrix" {
- scalar `se' = _se[`eqs']
= scalar __00000C = _se[/lnalpha]
- }
- else {
  scalar `se' = 0
}
- if `.has_Cns' & `se' == 0 {
= if 0 & __00000C == 0 {
  matrix `C' = `Cns'[1...,`el']

```

```

matrix `C' = `C'*`C'
local isCns = `C'[1,1] != 0
}
- }
- if `se' == 0 {
= if __00000C == 0 {
  scalar `se' = .
}
- if "`function'" != "" {
= if "" != "" {
  .Function `b' `se' `z' "`function'" "`derivative'"
}
- else if "`builtin'" != "" {
= else if "exp" != "" {
- .`builtin' `b' `se' `z'
= .exp __00000B __00000C __000009
}

> ----- begin _b_diparm.exp -----
- 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.exp -----
- }
- 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.AddTest -----
- version 11

```

```

- syntax anything(name=df) [, Prob]
- return add
- if "`prob'" == "" {
= if "" == "" {
- return scalar p = .
- return scalar z = .
- exit
}

> ----- end _b_diparm.AddTest -----

- 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.compute -----

- exit

> ----- end _diparm -----

> -----
piq_timing_max | Coefficient   Robust      z    P>|z|    [95% conf. inte
> rval]
-----
> -----
          wlth |  -.2166013   .1288783   -1.68   0.093   -.4691981   .03
> 59954
stky_pr_rotemberg | -1.893495   .1789645  -10.58   0.000   -2.244259  -1.5
> 42732
          stky_pr_calvo | -1.657868   .1998535   -8.30   0.000   -2.049573  -1.2
> 66162
          wg_ndx |   .7527474   .1360262    5.53   0.000   .4861409   1.0
> 19354
          open |  -.3496494   .1366369   -2.56   0.010   -.6174528  -.08
> 18459
          other_channel | -.5677413   .1600954   -3.55   0.000   -.8815225   -.
> 25396
          bnkcrcdit |   .3182827   .1535038    2.07   0.038   .0174208   .61
> 91446

```

> 43355	stky_wg		-2.2666332	.1382519	-1.93	0.054	-5.376018	.00
> 14507	_cons		2.348141	.1869245	12.56	0.000	1.981776	2.7
<hr/>								
> 48239	/lnalpha		-2.286613	.5297923			-3.324986	-1.2
<hr/>								
> 70098	alpha		.1016101	.0538322			.035973	.28
<hr/>								

```

> _____
- if "`markdown'" != "" {
= if "" != "" {
  set linesize `lsize'
}
- if "`eqselect'" == "" & "`eformnote'" != "noeformnote" {
= if "" == "" & "" != "noeformnote" {
- if ``"eformdi" != "" & ("`e(cmd)'" != "gnbreg" | "`e(prefix)'" ==
> "svy") {
= if ``" != "" & ("nbreg" != "gnbreg" | "" == "svy") {
  local k_eform `r(k_eform)'
  if ("`k_eform'" == "") {
    local k_eform = 1
  }
  local k_eq `e(k_eq)'
  if ("`k_eq'" == "") {
    local k_eq = 1
  }
  if (`k_eform' < `k_eq' & `k_eform') {
    if ("`e(cmd2)'" == "stintreg" | "`e(cmd2)'" == "streg") & ("`e
> (cmd)'" == "weibull" | "`e(cmd)'" == "gompertz") {
    }
    else {
      _eform_multeq_note efnote : `k_eform' ``tr_item'
      di as txt "`efnote'"
    }
  }
}
- if (``"eformdi" != "" & "`e(noconstant)'" == "0" & ``"eform_cons
> _ti" != "" & "`e(consonly)'" != "1") {
= if (``" != "" & "0" == "0" & ``" != "" & "0" != "1") {
  if ("`e(cmd)'" == "asclogit" | "`e(cmd)'" == "cmclogit" | "`e(cmd)
> '" == "cmmixlogit" | "`e(cmd)'" == "cmxtmixlogit" ) {

```

```

local asvar = ``e(ranvars)``e(fixvars)``e(indvars)`` != ""
if ``e(casevars)`` != "" & `asvar' {
local note1 "Exponentiated coefficients represent odds ratios

> for "

local note2 "alternative-specific variables (first equation) a

> nd "

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 = udsustr("`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_cons_
> note'`extranote'`_c
if (``e(cmd)'=="mlogit" | ``e(cmd)'=="asclogit" | ``e(cmd)'
> == "cmclogit" | ``e(cmd)'=="cmmixlogit" | ``e(cmd)'=="cmxtmixlogit" ) {
di as txt " for each outcome" _c
}
di as txt ".{p_end}"
}
- }
- return add
- if !`keepmc' {

```

```

        = if !0 {
        - return local mcmethod
        - return local mctitle
        - }
    }
end _coef_table

>
- if "`footnote'" == "" {
= if "nofootnote" == "" {
    ml_footnote
}
}

end mopt.Display

- exit

end mopt

- exit

end ml

- if "`e(chi2_ct)'"!="LR" { exit }
= if ""!="LR" { exit }

end nbreg.Display

- }
- error `e(rc)'
= error 0

end nbreg.Estimate

- version 10: ereturn local cmdline `"nbreg `0'"
= version 10: ereturn local cmdline `"nbreg piq_timing_max    wlth    stky_pr_
> rotemberg stky_pr_calvo wg_ndx open other_channel bnkcrdit stky_wg    if piq_t
> iming_max<60 , vce(r)'"

end nbreg

- log close
    name: <unnamed>
    log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityof
> fChicago/mmb/output/stepwise_regressions/piq_timing_max_frics_sim.smcl
    log type: smcl
    closed on: 8 May 2025, 20:06:14

```