
```

    name: <unnamed>
    log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/y_timing_max_nonmod_all.smcl
    log type: smcl
    opened on: 12 Sep 2025, 19:25:26
- capture ! rm ./output/stepwise_regressions/`depvar'`type'.pdf
= capture ! rm ./output/stepwise_regressions/y_timing_max_nonmod_all.pdf
- di "*****"
> *****"
*****
> **
- di "Outcomes of bi-directional stepwise regressions with `depvar' (type = `t
> ype'))"
= di "Outcomes of bi-directional stepwise regressions with y_timing_max (type
> = nonmod_all)"
Outcomes of bi-directional stepwise regressions with y_timing_max (type = nonm
> od_all)
- di "*****"
> *****"
*****
> **
- ${reg_`depvar'`type'}
= poisson y_timing_max rule_g rule_itr estimated i.cb_authors_ext#i.vint_mid
> i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_early if y_timing_max
> < 99 , vce(robust) nolog

> _____ begin pois
> son _____
- if _by() {
    local BY ``by `byvars'`byrc0':"
}
- `BY' _vce_parserun poisson, mark(Exposure OFFset CLuster) : `0'
= _vce_parserun poisson, mark(Exposure OFFset CLuster) : y_timing_max rule_
> g rule_itr estimated i.cb_authors_ext#i.vint_mid i.cb_authors_ext#i.vint_
> late i.cb_authors_ext#i.vint_early if y_timing_max < 99 , vce(robust) nolog

> _____ begin _vce_parse
> run _____
- version 9
- local version : di "version " string(_caller()) ":"
- local bycall = _by()
- _on_colon_parse `0'
= _on_colon_parse poisson, mark(Exposure OFFset CLuster) : y_timing_max ru
> le_g rule_itr estimated i.cb_authors_ext#i.vint_mid i.cb_authors_ext#i.vi
> nt_late i.cb_authors_ext#i.vint_early if y_timing_max < 99 , vce(robust) nol

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> og
> _____ begin _on_colon_pa
> rse _____
- version 8.2
- sreturn local before ""
- sreturn local after ""
- gettoken before after : 0, parse(":") bind match(par) quotes
- if "`par'" != "" {
= if "" != "" {
  local before "`('before)'"
}
- if ``"before"' == ":" {
= if ``poisson, mark(Exposure OFFset CLuster) "' == ":" {
  sreturn local after ``"after"'
  exit
}
- while ```COLON'"" != ":" & ``"after'"" != "" {
= while ``"" != ":" & ``: y_timing_max rule_g rule_itr estimated i.cb_a
> uthors_ext#i.vint_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint
> _early if y_timing_max < 99 , vce(robust) nolog"' != "" {
- gettoken COLON after : after, parse(":") bind match(par) quotes
- if "`par'" != "" {
= if "" != "" {
  local before `before' (`COLON')
  local COLON
}
- else if ```COLON'"" != ":" {
= else if ``:"' != ":" {
  local before ``"before' `COLON'""
  local COLON
}
- }
- while ```COLON'"" != ":" & ``"after'"" != "" {
= while ``:"' != ":" & `` y_timing_max rule_g rule_itr estimated i.cb_a
> uthors_ext#i.vint_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint
> _early if y_timing_max < 99 , vce(robust) nolog"' != "" {
  gettoken COLON after : after, parse(":") bind match(par) quotes
  if "`par'" != "" {
    local before `before' (`COLON')
    local COLON
  }
  else if ```COLON'"" != ":" {
    local before ``"before' `COLON'""
    local COLON
  }
}

```

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    }
    - if ``COLON''' != ":" {
= if `":' != ":" {
    di as err "' found where ':' expected"
    exit 198
    }
    - sreturn local before ``before'''
    = sreturn local before `poisson, mark(Exposure OFFset CLuster) '
    - sreturn local after ``after'''
    = sreturn local after ` y_timing_max rule_g rule_itr estimated i.cb_au
> thors_ext#i.vint_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_
> early if y_timing_max < 99 , vce(robust) nolog"

> _____ end _on_colon_pa
> rse _____
    - local ZERO ``s(before)'''
    = local ZERO `poisson, mark(Exposure OFFset CLuster) '
    - local 0 ``s(after)'''
    = local 0 ` y_timing_max rule_g rule_itr estimated i.cb_authors_ext#i.vi
> nt_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_early if y_tim
> ing_max < 99 , vce(robust) nolog"
    - quietly syntax [anything(equalok)] [if] [in] [fw aw pw iw] [, VCE(string
> asis) VCE1(string asis) LRMODEL * ]
    - if ``vce''' == "" {
    = if `robust' == "" {
        MYRESULT
        exit
        }
    - local AFTER ``0'''
    = local AFTER ` y_timing_max rule_g rule_itr estimated i.cb_authors_ext#
> i.vint_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_early if y
> _timing_max < 99 , vce(robust) nolog"
    - local 0 ``ZERO'''
    = local 0 `poisson, 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 {

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        .`reqopts'.addopt `req', passthru
    }
}
- if "`wtypes'" == "" {
= if "" == "" {
- local wtypes fw aw pw iw
- }
- if "`paneldata'" != "" {
= if "" != "" {
    local panelopt "CLuster(varname) I(varname)"
}
- if "`stdata'" != "" {
= if "" != "" {
    local stopt "CLuster(varname) SHared(varname)"
}
- local typelist svy jackknife bootstrap
- if "`stdata'" == "" & replay() & !_by() {
= if "" == "" & replay() & !_by() {
    local ecmd `e(cmd)'
    local ecmdname `e(cmdname)'
    if ``ecmd' == "" {
        error 301
    }
    else if ``ecmd' != ``caller' & ``ecmdname' == ``caller' & `: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 `` y_timing_max rule_g rule_itr estimated i.cb_authors_ext#i.vi
> nt_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_early if y_tim
> ing_max < 99 , vce(robust) nolog"
- 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' {

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= if 0 {
    local vce1
}
- if ``vce1'' != "" & ``multivce'' == "" {
= if ``'' != "" & "" == "" {
    di as err "option vce() specified multiple times"
    exit 198
}
- if ``robust'' != "" & ``robustok'' == "" {
= if "" != "" & "" == "" {
    di as err "options vce() and robust may not be combined"
    exit 198
}
- if ``if'' != "" {
= if ``y_timing_max < 99 '' != "" {
- local if ``if (`if')''
= local if ``if (y_timing_max < 99 )''
- }
- if ``robust'' != "" {
= if "" != "" {
    local options ``robust' `options''
}
- if ``weight'' != "" {
= if "" != "" {
    local wgt [`weight'`exp']
}
- if ``options'' != "" {
= if ``nolog'' != "" {
- local opts ``:list retok options''
= local opts ``nolog''
- }
- gettoken uvcetype vceopts : vce, parse(" ,")
- capture unabVCetype, `uvcetype'
= capture unabVCetype, robust

```

```
> _____ begin _vce_parserun.unabVCet
```

```
> ype _____
- 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'

> _____ end _vce_parserun.unabVCEt
> ype _____
- if c(rc) {
  di as err "invalid vce() option"
  exit c(rc)
}
- local vcetype `s(vcetype)'
= local vcetype robust
- if "`lrmodel'"!=" {
= if ""!=" {
  _check_lrmodel `caller', vcetype(`vcetype')
}
- if ``vce1' != "" & "`multivce'" != "" {
= if `'' != "" & "" != "" {
  gettoken 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 !inlist("`caller'", "areg", "regress", "xtreg") {
            di as err "{p}multiway cluster VCE " "not allowed{p_end}"
            exit 198
        }
        MYRESULT
        exit
    }
}
- }
- if ! `:list vcetype in typelist' {
= if ! 0 {
- if "`vcetype'" != "robust" & "`noothervce'" == "noothervce" {
= if "robust" != "robust" & "" == "noothervce" {
    di as err "option vce(`vcetype') not allowed"
    exit 198
}
- MYRESULT
}

> _____ begin _vce_parserun.MYRES
> ULT _____
    - args exit
    - sreturn local exit ``exit'''
    = sreturn local exit `'''
}

> _____ end _vce_parserun.MYRES
> ULT _____
    - exit
}

> _____ end _vce_parse
> run _____
- 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 18.5: Estimate y_timing_max rule_g rule_itr estimated i.cb_autho
> rs_ext#i.vint_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_ear
> ly if y_timing_max < 99 , vce(robust) nolog

----- begin poisson.Estim
> ate -----
- local vv "version 8.1:"
- local mm d2
- local eval poiss_lf
- version 6, missing
- local awopt = cond(_caller()<7, "aw", "")
- syntax varlist(numeric fv ts) [fw `awopt' pw iw] [if] [in] [, IRr FROM(s
> tring) Level(cilevel) OFFset(varname numeric ts) Exposure(varname numeric ts
> ) noCONstant Robust CLuster(varname) SCore(string) noDISPLAY CRITTYPE(passth
> ru) MATAevaluator 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) noDISPLAY CRITTYPE(passthru) MAT
> Aevaluator moptobj(passthru) * ]
- local fvops = "`s(fvops)'" == "true" | _caller() >= 11
= local fvops = "true" == "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, vce(robust) nolog

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

```

```

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

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

> ----- end opts_exclus
> ive -----
- 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 & 17 {
  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.Wra
> pon _____
    - 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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

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

> _____ end _get_diopts.Wra
> pon _____
    - 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 diopts
    - if `K' == 2 {
    = if 2 == 2 {
    - c_local `c_opts' ``options'''
    = c_local options `vce(robust) nolog''
    - }
    - 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.GetDio
> pts -----
    - 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_fvops = s(fvops)
    - }
    - sreturn clear
    - GetDiopts DEFAULT
}

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____

```

```

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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus

```

```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

> ----- end opts_exclus
> ive -----
- 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 , `fwraon'
= Wraon ,

> _____ begin _get_diopts.Wra
> pon _____
- capture syntax [, W0rd WIdth]
- if c(rc) {
di as err "invalid fwraon() option;"
syntax [, W0rd WIdth]
exit 198

```

```

    }
    - opts_exclusive "`word' `width'" fwrapon
    = opts_exclusive " " fwrapon
}
> ----- begin opts_exclus
> ive
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
    }
}
> ----- end opts_exclus
> ive
    - local fwrapon `word' `width'
    = local fwrapon
    - if `:length local fwrapon' {
    = if 0 {
        c_local fwrapon fwrapon(`fwrapon')
    }
}
> ----- end _get_diopts.Wra
> pon
    - if "`fwrap'" != "" {
    = if "" != "" {
        FVWrap, `fwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevels'
> `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend'
> `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fwrap
> ' `fwrapon' `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.GetDio
> pts -----
- if ``name2''' == "" {
= if `"options"' == "" {
  GetDiopts DUPS, `options'
}
- else {
- GetDiopts DUPS options, `options'
= GetDiopts DUPS options, vce(robust) nolog

```

```

> ----- begin _get_diopts.GetDio
> pts -----
- 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_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts''' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind

```

```

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

```

```

> _____ end opts_exclus
> ive _____
  - opts_exclusive "`emptycells' `noemptycells'"
  = opts_exclusive " "
  _____

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

> _____ end opts_exclus
> ive _____
  - opts_exclusive "`fvlabel' `nofvlabel'"
  = opts_exclusive " "
  _____

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

> _____ end opts_exclus
> ive _____
  - opts_exclusive "`omitted' `noomitted'"

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev` `noabbrev`"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - 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 & 17 {
    syntax namelist(max=2) [, `DIOPTS']
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {
    local levelopt level(`level')
}
- Wraupon , `fvwraupon'
= Wraupon ,

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

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

```

```

        - exit
    }
}
> ----- end opts_exclus
> ive
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}
> ----- end _get_diopts.Wra
> pon
    - 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 DUPS
    - if `K' == 2 {
    = if 2 == 2 {
        - c_local `c_opts' ``options'
    = c_local options `"vce(robust) nolog"
        - }
        - 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.GetDio
> pts
    - c_local `name2' ``options'
    = c_local options `"vce(robust) nolog"
    - }
    - 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 fvops = ``true''
- }
}

> _____ end _get_dio
> pts _____
- mlopts mlopts, `options'
= mlopts mlopts, vce(robust) nolog
}

> _____ begin mlo
> pts _____
- 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                                nolog
- 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 "vce(robust)" != "" {
- ml_technique, `technique' `vce' nodefault
= ml_technique, vce(robust) nodefault
}

> _____ begin ml_technique
> que _____
- version 8.0
- syntax [, TECHnique(string) VCE(passthru) noDEFault ]
- sreturn clear
- _vce_parse, argopt(CLuster) opt(Hessian OIM Opg NATIVE Robust) :, `v
> ce'
= _vce_parse, argopt(CLuster) opt(Hessian OIM Opg NATIVE Robust) :, vc
> e(robust)
_____

```

```

> _____ begin _vce_pa
> rse _____
    - version 10
    - _on_colon_parse `0'
    = _on_colon_parse , argopt(CLuster) opt(Hessian OIM Opg NATIVE Robus
> t) :, vce(robust)
    _____
> _____ begin _on_colon_pa
> rse _____
    - 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(Hessian OIM Opg NATIVE Robust) "' ==
> ":" {
      sreturn local after ``after'"
      exit
    }
    - while ``COLON'" != ":" & ``after'" != "" {
    = while ``'" != ":" & `", vce(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 `":'" != ":" & `", vce(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 `", argopt(CLuster) opt(Hessian OIM Opg NAT
> IVE Robust) ''
        - sreturn local after ``after''
= sreturn local after `", vce(robust)''



---


> _____ end _on_colon_pa
> rse _____
        - local 0 ``s(before)''
= local 0 `", argopt(CLuster) opt(Hessian OIM Opg NATIVE Robust) ''
        - local user ``s(after)''
= local user `", vce(robust)''
        - syntax [varname(default=none)], [ OPTlist(namelist) ARGOPTlist(nam
> elist) PWallowed(namelist) OLD_is_ok NOARGOPT_is_ok ]
        - local touse `varlist'
= local touse
        - tempname o a
        - .`o' = ._optlist.new
= .__000000 = ._optlist.new
        -class {
        -instance:
        -      array options    = {}
        -      array names      = {}
        -}
        - local optlist : list uniq optlist
        - foreach name of local optlist {
        - .`o'.addopt `name'
= .__000000.addopt Hessian



---


> _____ begin _optlist.add
> opt _____
        - version 9
        - syntax name(name=optspec) [, PASSthru]
        - local mname = lower("`optspec'")
= local mname = lower("Hessian")
        - if "`passthru'" != "" {
= if "" != "" {
        local optspec `optspec'(passthru)

```

```

        }
        - .options.Arrpush "`optspec'"
        = .options.Arrpush "Hessian"
        - .names.Arrpush "`mname'"
        = .names.Arrpush "hessian"
    }
end _optlist.add

> opt
    - }
    - .`o'.addopt `name'
    = .__000000.addopt OIM

begin _optlist.add

> opt
    - 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.add

> opt
    - }
    - .`o'.addopt `name'
    = .__000000.addopt Opg

begin _optlist.add

> opt
    - 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.add
> opt _____
    - }
    - .`o'.addopt `name'
    = .__000000.addopt NATIVE
    > _____ begin _optlist.add
> opt _____
    - version 9
    - syntax name(name=optspec) [, PASSthru]
    - local mname = lower("`optspec'")
    = local mname = lower("NATIVE")
    - if "`passthru'" != "" {
    = if "" != "" {
        local optspec `optspec'(passthru)
    }
    - .options.Arrpush "`optspec'"
    = .options.Arrpush "NATIVE"
    - .names.Arrpush "`mname'"
    = .names.Arrpush "native"
    > _____ end _optlist.add
> opt _____
    - }
    - .`o'.addopt `name'
    = .__000000.addopt Robust
    > _____ begin _optlist.add
> opt _____
    - 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.add
> opt _____

```

```

- }
- .`a' = ._optlist.new
= .__000001 = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- .`a'.addopt `name'
= .__000001.addopt CCluster
}

> _____ begin _optlist.add
> opt _____
- 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.add
> opt _____
- }
- local OPTNAMES ```.`o'.dumpnames''''

> _____ begin _optlist.dumpna
> mes _____
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/5 {
- local namelist `namelist' `.names[`i']'
= local namelist hessian
- }
- local namelist `namelist' `.names[`i']'
= local namelist hessian oim
- }
- local namelist `namelist' `.names[`i']'
= local namelist hessian oim opg
- }
- local namelist `namelist' `.names[`i']'
= local namelist hessian oim opg native
- }
- local namelist `namelist' `.names[`i']'

```

```

= local namelist hessian oim opg native robust
- }
- local namelist : list uniq namelist
- sreturn local namelist ``namelist'''
= sreturn local namelist "hessian oim opg native robust"
- class exit ``namelist'''
= class exit "hessian oim opg native robust"

> ----- end _optlist.dumpna
> mes -----
= local OPTNAMES "hessian oim opg native robust"
- local ARGOPTNAMES ``.a'.dumpnames'''

> ----- begin _optlist.dumpna
> mes -----
- 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.dumpna
> mes -----
= 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 "" != "" {
local ROBUST robust
if `:list ROBUST in OPTNAMES' {

```

```

local robust Robust
}
local CLUSTER cluster
if `:list CLUSTER in ARGOPTNAMES' {
local cluster CLuster(varname)
}
}
- local 0 ```user'``
= local 0 `", vce(robust)""
- syntax [fw aw pw iw] [, VCE(string asis) `robust' `cluster' ]
= syntax [fw aw pw iw] [, VCE(string asis)   ]
- if ```vce'`` != "" {
= if ``robust" != "" {
- gettoken name args : vce, parse(" ,")
- local args : list retok args
- capture ParseVCE `o' `a' , `name'
= capture ParseVCE __000000 __000001 , robust
}
}

> ----- begin _vce_parse.Parse
> VCE -----
- gettoken 0 0 : 0, parse(" ,")
- gettoken A 0 : 0, parse(" ,")
- local OPTSPECS ```.`0'.dumpoptions' `.`A'.dumpoptions'``
}

> ----- begin _optlist.dumpopti
> ons -----
- version 9
- forval i = 1/`.options.arnels' {
= forval i = 1/5 {
- local optlist `optlist' `.options['i']'
= local optlist Hessian
- }
- local optlist `optlist' `.options['i']'
= local optlist Hessian OIM
- }
- local optlist `optlist' `.options['i']'
= local optlist Hessian OIM Opg
- }
- local optlist `optlist' `.options['i']'
= local optlist Hessian OIM Opg NATIVE
- }
- local optlist `optlist' `.options['i']'
= local optlist Hessian OIM Opg NATIVE Robust
- }
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'``

```

```

= sreturn local optlist `"Hessian OIM Opg NATIVE Robust"'
- class exit ```optlist'''
= class exit `"Hessian OIM Opg NATIVE Robust"'
_____
> _____ end _optlist.dumpopti
> ons _____
_____
> _____ begin _optlist.dumpopti
> ons _____
- 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.dumpopti
> ons _____
= local OPTSPECS `"Hessian OIM Opg NATIVE Robust CLuster"'
- local OPTNAMES ```.`0'.dumpnames' `.`A'.dumpnames'''
_____
> _____ begin _optlist.dumpna
> mes _____
- version 9
- forval i = 1/`.names.arnels' {
= forval i = 1/5 {
- local namelist `namelist' `.names['i']'
= local namelist hessian
- }
- local namelist `namelist' `.names['i']'
= local namelist hessian oim
- }
- local namelist `namelist' `.names['i']'
= local namelist hessian oim opg
- }
- local namelist `namelist' `.names['i']'
= local namelist hessian oim opg native
- }
- local namelist `namelist' `.names['i']'
= local namelist hessian oim opg native robust
- }

```

```

- local namelist : list uniq namelist
- sreturn local namelist ``namelist'''
= sreturn local namelist "hessian oim opg native robust"
- class exit ``namelist'''
= class exit "hessian oim opg native robust"

> _____ end _optlist.dumpna
> mes _____

> _____ begin _optlist.dumpna
> mes _____
- 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.dumpna
> mes _____
= local OPTNAMES "hessian oim opg native robust cluster"
- syntax [, `OPTSPECS']
= syntax [, Hessian OIM Opg NATIVE 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 `''' != "" {
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.Parse
> VCE _____
- 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 ``' != "" & !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_pa
> rse _____
    - sreturn local vce ``r(vce)'"
    = sreturn local vce `"robust'"
    - sreturn local vceargs ``r(vceargs)'"
    = sreturn local vceargs `"'
    - sreturn local vceopt ``r(vceopt)'"
    = sreturn local vceopt `"vce(robust)'"
    - if "`s(vce)'" == "hessian" {
    = if "robust" == "hessian" {
        sreturn local vce "oim"
        sreturn local vceopt "vce(oim)"
    }
    - if "$ML_vce" == "robust" & !inlist("`s(vce)'", "", "oim", "robust")
> {
    = if "" == "robust" & !inlist("robust", "", "oim", "robust") {
        di as err "options robust and vce(`s(vce)') may not be combined"
        exit 198
    }
    - get_technique `technique', `default'
    = get_technique , nodefault
}

> _____ begin ml_technique.get_techni
> que _____
    - syntax [anything(equalok)] [, noDefault ]
    - local 0 ``anything'"

```

```

= local 0 ``''
- if ``default'' == "" {
= if "nodefault" == "" {
    local default_num 5
  }
- else local default_num 0
- gettoken tname rest : 0, parse(" =")
- while ``tname'' != "" {
= while "" != "" {
    local tname = lower(``tname'')
    capture confirm name `tname'
    if _rc {
      local rc = _rc
      di as err ``tname' is an invalid name in technique() option"
      exit `rc'
    }
    get_tech tech , `tname'
    gettoken num : rest, parse(" =")
    if ``num'' == "" {
      gettoken num rest : rest, parse(" =")
      gettoken num : rest, parse(" =")
    }
    capture confirm integer number `num'
    if !_rc gettoken num rest : rest, parse(" =")
    else local num `default_num'
    if `num' < 0 {
      di as err "negative integers are not allowed in technique() option"
> "

      exit 125
    }
    else if `num' > 0 {
      local techlist `techlist' `tech'
      local numlist `numlist' `num'
      local technique `technique' `tech' `num'
    }
    else if ``default'' != "" {
      local techlist `techlist' `tech'
      local numlist `numlist' `num'
      local technique `technique' `tech'
    }
    gettoken tname rest : rest, parse(" =")
  }
- if ``default'' `techlist'' == "" {
= if "nodefault" == "" {
    local techlist nr
    local numlist `default_num'

```

```

    }
    - if "`default'" == "" {
= if "nodefault" == "" {
    sreturn local techlist `:list retok techlist'
    sreturn local numlist `:list retok numlist'
    }
    - sreturn local technique `:list retok technique'
= sreturn local technique
}

> _____ end ml_technique.get_technique
> que _____

> _____ end ml_technique
> que _____
- if ``s(technique)'' != "" {
= if `'' != "" {
    local technique "technique(`s(technique))"
    }
- if ``s(vce)'' != "" {
= if "robust" != "" {
- local vce ``s(vceopt)''
= local vce "vce(robust)"
- }
- sreturn local technique ``technique''
= sreturn local technique ""
- sreturn local vce ``vce''
= sreturn local vce "vce(robust)"
- }
- 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 nolog vce(robust)
- if ``rest'' != "" {

```

```

= if "" != "" {
  c_local `rest' ``options'''
}



---


> _____ end mlo
> pts _____
- local coll `s(collinear)'
= local coll
- local cns `s(constraints)'
= local cns
- local mlopts `mlopts' `crittype'
= local mlopts nolog          vce(robust)
- 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 y_timing_max
- tsunab y : `y'
= tsunab y : y_timing_max
```

```

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

```

> _____ end tsu
> nab _____
- local yname : subinstr local y "." "_"
- if "`weight'"!=" {
= if ""!=" {
if "`weight'"=="fweight" {
local wt `[fw`exp']"
```

```

}
else if "`weight'"=="iweight" {
```

```

    local wt `[iw`exp']"'
  }
  else local wt `[aw`exp']"'
  }
- summarize `y' `wt' if `touse', meanonly
= summarize y_timing_max if __000000, 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 __000001 = r(mean)
- scalar `nobs' = r(N)
= scalar __000002 = r(N)
- if "`display'"==" " {
= if ""==" " {
- capture assert `y' == int(`y') if `touse'
= capture assert y_timing_max == int(y_timing_max) if __000000
- if _rc {
  __New_Note `0'
}
- }
- if "`display'"==" " & "`weight'"=="aweight" {
= if ""==" " & ""=="aweight" {
  di in blu "note: you are responsible for interpretation " "of analytic w
> eights."
}
- 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 "      could no
> t 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 __000003 = ln(__000001)
- if "`cfail'"==" " {
= if ""==" " {
- LikePois `y' `c' [weight`exp'] if `touse', n(`nobs')
= LikePois y_timing_max __000003 [] if __000000, n(__000002)
}

> ----- begin poisson.LikeP
> ois -----
- 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 __000004 = y_timing_max*(__000003)-exp(__000003)-lgamma
> a(y_timing_max+1) if __000000
- summarize `lnf' `wt' `if', meanonly
= summarize __000004 if __000000, meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __000002 { exit }
- if "`weight'"=="aweight" {
= if ""=="aweight" {
  ret scalar lnf = r(N)*r(mean)
}
- else ret scalar lnf = r(sum)
}

> ----- end poisson.LikeP
> ois -----
- if r(lnf)<. {
- local ll0 "lf0(1 `r(lnf)')"
```

```

= local ll0 "lf0(1 -420.2971615663282)"
- }
- else {
  di in blu "note: could not compute " "constant-only model log likelihood
> ."
  }
- }
- }
- 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 rule_g rule_itr estimated i.cb_authors_ext#i.v
> int_mid i.cb_authors_ext#i.vint_late i.cb_authors_ext#i.vint_early [] if __0
> 00000,
note: 1.cb_authors_ext#1.vint_late omitted because of collinearity.
note: 0.cb_authors_ext#1.vint_early omitted because of collinearity.
note: 1.cb_authors_ext#0.vint_early omitted because of collinearity.
note: 1.cb_authors_ext#1.vint_early omitted because of collinearity.
- local xvars `r(varlist)'
= local xvars rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.c
> b_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vin
> t_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_auth
> ors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vin
> t_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.c
> b_authors_ext#1o.vint_early
- if "`from'"==" {
= if ""==" {
- `vv' Ipois `y' `xvars' [`weight'`exp'] if `touse', n(`nobs') mean(`mean'
> ) `constan' `offopt'
= version 18.5, missing: Ipois y_timing_max rule_g rule_itr estimated 0b.c
> b_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.v
> int_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_aut
> hors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint
> _late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_
> authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early [] if __000000, n(
> __000002) mean(__000001)

> _____ begin poisson.Ip
> ois _____

```

```

- local vv : display "version " string(_caller()) ", missing:"
- version 6, missing
- syntax varlist(fv ts) [fw aw pw iw/] [if] , Nobs(string) Mean(string)
> [ noCONstant OFFset(string) ]
- gettoken y xvars : varlist
- tempvar xb z
- tempname b1 b2 lnf1
- if "`weight'"!="" {
= if ""!="" {
    local awt `[aw=`exp']"
    local wt `"(`exp')*"
    local exp `"'= `exp'"
}
- quietly {
- if "`offset'"!="" {
= if ""!="" {
    tempvar ynew
    gen double `ynew' = `y' - `offset'*`mean' `if'
    local poff "+`offset'"
}
- else local ynew `y'
= else local ynew y_timing_max
- `vv' _regress `ynew' `xvars' `awt' `if', `constan'
= version 18.5, missing: _regress y_timing_max rule_g rule_itr estimate
> d 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ex
> t#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.
> cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1
> o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early
> 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early if __000000
> ,
_____
> _____ begin _ereturn_disp
> lay _____
- version 11
- if "`e(b)'" == "" & "`e(V)'" == "" {
= if "matrix" == "" & "matrix" == "" {
    exit
}
- if "`e(cmd)'" == "regress" {
= if "regress" == "regress" {
- local ALTOPT Beta
- }
- syntax [, eform(passthru) First neq(integer -1) Plus `ALTOPT' *]
= syntax [, eform(passthru) First neq(integer -1) Plus Beta *]
- _get_mcompare, `options'
= _get_mcompare, level(95.00) fvwrap(1)

```

```

> _____ begin _get_mcomp
> are _____
      - version 11
      - local cmd ``e(cmd)''
      = local cmd `regress'
      - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", ``cmd'', ``caller'') | inlist("
> pwmean", ``cmd'', ``caller'')
      = local is_pwc = inlist("pwcompare", "regress", "") | inlist("pwmean
> ", "regress", "")
      - local is_marg = inlist("margins", ``cmd'', ``e(cmd2)'', ``caller''
> )
      = local is_marg = inlist("margins", "regress", "", "")
      - local OPTIONS NOADJUST BONferroni DUNCAn DUNNett SCHeffe 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' `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 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' `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_exclus
> ive _____
        - version 8.2
        - args opts optname errcode optslab
        - local opts `opts'
        = local opts
        - local n 0
        - while ``opts'" != "" {
        = while `"' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit

> _____ end opts_exclus
> ive _____
        - 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_exclus
> ive _____
        - 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_exclus
> ive _____
- 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(`vc
> e')"'
        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_mcomp
> are _____
        - 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_dio
> pts _____
        - 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.GetDio
> pts _____
        - 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_exclus
> ive _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> _____ end opts_exclus
> ive _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus` `compare`"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev` `noabbrev`"
= opts_exclusive " "
}

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

```

```

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

> ----- end opts_exclus
> ive
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

```

```

> _____ begin _get_diopts.Wra
> pon _____

```

```

- capture syntax [, W0rd WIdth]
- if c(rc) {

```

```

        di as err "invalid fwwrapon() option;"
        syntax [, WOrd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fwwrapon
= opts_exclusive " " fwwrapon
_____
> _____ begin opts_exclus
> ive _____
        - version 8.2
        - args opts optname errcode optslab
        - local opts `opts'
        = local opts
        - local n 0
        - while ``opts' != "" {
        = while `"' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
            - exit
        }
        _____
> _____ end opts_exclus
> ive _____
        - local fwwrapon `word' `width'
        = local fwwrapon
        - if `:length local fwwrapon' {
        = if 0 {
            c_local fwwrapon fwwrapon(`fwwrapon')
        }
        _____
> _____ end _get_diopts.Wra
> pon _____
        - if "`fwwrap'" != "" {
        = if "fwwrap(1)" != "" {
            - FWWrap, `fwwrap'
            = FWWrap, fwwrap(1)
        }
        _____
> _____ begin _get_diopts.FWw
> rap _____
        - syntax, fwwrap(integer)
        - if `fwwrap' < 0 {
        = if 1 < 0 {
            di as err "{p}invalid option {bf:fwwrap(`fwwrap')}"; " "nonnega
> tive integer required{p_end}"

```



```

        exit 198
    }
}

> _____ end _get_diopts.FVW
> rap _____
    - }
    - 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          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.GetDio
> pts _____
    - 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.GetDio
> pts _____
    - 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_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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

```

```

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

```

```

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

```

```

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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus

```

```

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

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

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

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

- begin opts_exclus
>
> ive
- version 8.2

```

```

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

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

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

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

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

```

```

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

```

```

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

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

> ----- end _get_diopts.Wra
> pon -----
    - 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 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.GetDio
> pts _____
    - if ``name2'' == "" {
    = if ``'' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,
    _____

> _____ begin _get_diopts.GetDio
> pts _____
    - 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) NOABBREV
> 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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

> ----- begin opts_exclus

```

```

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

> ive
- version 8.2

```



```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

```

> _____ begin _get_diopts.Wra

> pon _____

```

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

```

> _____ begin opts_exclus

> ive _____

```

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

```

```

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

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

> ----- end _get_diopts.Wra
> pon -----
    - 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 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.GetDio
> pts -----
    - }
    - 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_dio
> pts _____
    - 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' `first'
> `neqopt' `plus' `beta' `mcopt' `diopts'
    = _coef_table, nodiparm nocnsreport noeqcheck eformall showeqns neq(1)
> ) mcompare(noadjust ) fvwrap(1)

> _____ begin _coef_ta
> ble _____

```

```

- 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(string
> ) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) PMATR
> ix(string) TSMATrix(string) ROWCFormat(string) ROWPFormat(string) ROWSFormat

```

```

> (string) NOROWCI MMATrix(string) MVMATrix(string) MEMATrix(string) BSTDMATri
> x(string) CNSMATrix(string) PCLASSMATrix(string) Level(cilevel) prefix(name)
> cnszero(string) suffix(name) OFFSETlist(string asis) `beta' `standardized'
> NOCI NOPValues `dftable' `dfonly' dfci DFPValues dfmissing `groups' COEFLege
> nd selegend `fvignore' `flignore' `showginvariant' `nolabel' `nofootnote' `w
> rap' sort `pisematrix' depname(string) COEFTitle(string) coeftitle2(string)
> ptitle(string) cititle(string) NOMCLEGen noCNSReport FULLCNSReport `noclust
> report' cformat(passthru) sformat(passthru) pformat(passthru) NOFirst First
> SHOWEQns neq(integer -1) NODIPARM NOTEST SEPARATOR(integer 0) NOSKIP OFFSET0
> NLY1 Plus NOEQCHECK EFORMALL CITYPE(string) eqselect(string) cidisjoint noEF
> ORMNOTE * ]
    = syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(string)
> ) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) PMATr
> ix(string) TSMATrix(string) ROWCFormat(string) ROWPFormat(string) ROWSFormat
> (string) NOROWCI MMATrix(string) MVMATrix(string) MEMATrix(string) BSTDMATri
> x(string) CNSMATrix(string) PCLASSMATrix(string) Level(cilevel) prefix(name)
> cnszero(string) suffix(name) OFFSETlist(string asis) Beta NOCI NOPValues
> dfci DFPValues dfmissing COEFLegend selegend      sort depname(string) C
> OEFTitle(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEGen
> d noCNSReport FULLCNSReport cformat(passthru) sformat(passthru) pformat(pas
> sthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SEPARATOR(inte
> ger 0) NOSKIP OFFSETONLY1 Plus NOEQCHECK EFORMALL CITYPE(string) eqselect(st
> ring) cidisjoint 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
        }
    }
    - _novce_other_mats, cimatrix("`cimatrix'") pmatrix("`pmatrix'") tsm
> atrix("`tsmatrix'") `noci' `nopvalues' `dfci' `dfpvalues' `cidisjoint'
    = _novce_other_mats, cimatrix("") pmatrix("") tsmatrix("")

```

```

> _____ begin _coef_table._novce_other_m

```

```

> ats
    - syntax [anything], [ CIMATrix(string) PMATrix(string) TSMATrix(s
> tring) NOCI NOPValues dfci DFPValues cidisjoint ]
    - if ("`pmatrx'"==" & "`tsmatrx'"==" & "`e(V)'"==" & "`cimatr
> ix'"!=" & "`noci'"!=") {
        = if ("==" & "==" & "matrix"==" & "!=" & "!=") {
            sreturn local cimatrix "empt"
        }
        - if ("`pmatrx'"==" & "`tsmatrx'"!=" & "`e(V)'"==" & "`cimatr
> ix'"==" & ("`noci'"!="|"`nopvalues'"!=")) {
            = if ("==" & "!=" & "matrix"==" & "==" & ("!="|!=")) {
                sreturn local noci "empt"
                sreturn local nopvalues "empt"
            }
            - if ("`pmatrx'"==" & "`tsmatrx'"==" & "`e(V)'"==" & "`cimatr
> ix'"!=" & "`noci'"!=") {
                = if ("==" & "==" & "matrix"==" & "!=" & "!=") {
                    sreturn local cimatrix "empt"
                }
                - if ("`pmatrx'"!=" & "`tsmatrx'"==" & "`e(V)'"==" & "`cimatr
> ix'"==" & "`nopvalues'"!=") {
                    = if ("!=" & "==" & "matrix"==" & "==" & "!=") {
                        sreturn local pmatrx "empt"
                    }
                    - if ("`pmatrx'"!=" & "`tsmatrx'"==" & "`e(V)'"==" & "`cimatr
> ix'"==" & "`noci'"!=") {
                        = if ("!=" & "==" & "matrix"==" & "==" & "!=") {
                            sreturn local noci "empt"
                        }
                        - if ("`pmatrx'"!=") {
                            = if ("!=") {
                                tempname pmat isvalid
                                capture matrix `pmat' = `pmatrx'
                                local rc = _rc
                                if (`rc') {
                                    display as error "invalid {bf:pmatrx()}"
                                    exit 198
                                }
                                else {
                                    local k: rowsof `pmat'
                                    if (`k'>1 | `k'==0) {
                                        display as error "{bf:pmatrx()} should be a row vector"
                                        exit 198
                                    }
                                }
                                scalar `isvalid' = 1

```



```

mata: _is_in_0_1void("`pmat'", "`isvalid'")
if (`isvalid'==0) {
display as error "invalid {bf:pmatrx()}"
di as txt "{p 4 4 2}"
di as smcl as err "{bf:pmatrx()}"
di as smcl as err "should contain values inside"
di as smcl as err "the interval [0,1]."
di as smcl as err "{p_end}"
exit 198
}
}
- if ("`tsmatrix'"!="") {
= if ("!=") {
tempname tmat
capture matrix `tmat' = `tsmatrix'
local rc = _rc
if (`rc') {
display as error "invalid {bf:tsmatrix()}"
exit 198
}
else {
local k: rowsof `tmat'
if (`k'>1 | `k'==0) {
display as error "{bf:tsmatrix()} should be a row vector"
exit 198
}
}
}
- if ("`cimatrx'"!="") {
= if ("!=") {
tempname cimat isvalid
capture matrix `cimat' = `cimatrx'
local rc = _rc
if (`rc') {
display as error "invalid {bf:cimatrx()}"
exit 198
}
if ("`cidisjoint'"==" & "`e(disjoint)'"=="") {
scalar `isvalid' = 1
mata: _is_in_ci("`cimat'", "`isvalid'")
if (`isvalid'==0) {
display as error "invalid {bf:cimatrx()}"
di as txt "{p 4 4 2}"
di as smcl as err "{bf:cimatrx()}"
di as smcl as err "lower limit should be"
di as smcl as err "smaller than the upper"

```

```

di as smcl as err "limit."
di as smcl as err "{p_end}"
exit 198
}
}
}
- if ("`e(V)'"==" & "`dfci'"!=" & "`pmatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
    opts_exclusive "pmatrix() `dfci'"
}
- if ("`e(V)'"==" & "`dfci'"!=" & "`tsmatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
    opts_exclusive "tsmatrix() `dfci'"
}
- if ("`e(V)'"==" & "`dfci'"!=" & "`cimatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
    opts_exclusive "cimatrix() `dfci'"
}
- if ("`e(V)'"==" & "`dfpvalues'"!=" & "`pmatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
    opts_exclusive "pmatrix() `dfci'"
}
- if ("`e(V)'"==" & "`dfpvalues'"!=" & "`tsmatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
    opts_exclusive "tsmatrix() `dfpvalues'"
}
- if ("`e(V)'"==" & "`dfpvalues'"!=" & "`cimatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
    opts_exclusive "cimatrix() `dfpvalues'"
}
}

```

```
> _____ end _coef_table._novce_other_m
```

```
> ats _____
- if ("`s(cimatrix)'"=="empt") {
= if ("=="empt") {
    local cimatrix ""
}
- if ("`s(pmatrix)'"=="empt") {
= if ("=="empt") {
    local pmatrix ""
}
- if ("`s(noci)'"=="empt") {
= if ("=="empt") {
    local noci ""
}
- if ("`s(nopvalues)'"=="empt") {

```

```

= if (""=="empt") {
  local nopvalues ""
}
- if ("`e(V)'"!=" & "`cidisjoint'"!="") {
= if ("matrix"!=" & ""!="") {
  display in red "option {bf:cidisjoint} not allowed when e(V) is po
> sted"
  exit 198
}
- else local fvlabel `nofvlabel' `fvlabel'
= else local fvlabel
- local type `coeflegend' `selegend'
= local type
- opts_exclusive "`type' `standardized'"
= opts_exclusive " "

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

> _____ end opts_exclus
> ive _____
  - 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 (``donly'!=" & "`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' `groups' `
> dfci' `dfpvalues'
    = local type
    - }
    - opts_exclusive "`type'"
    = opts_exclusive ""
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`first' `nofirst'"
    = opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

```

```

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

```

```

> ----- begin opts_exclus
> ive -----
    - 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_exclus
> ive -----
    - local cnsreport `cnsreport' `fullcnsreport'
    = local cnsreport nocnsreport
    - opts_exclusive "`cnsreport'"
    = opts_exclusive "nocnsreport"

```

```

> ----- begin opts_exclus
> ive
    - 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_exclus
> ive
    - 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_mcomp
> are
    - version 11
    - local cmd ``e(cmd)''
    = local cmd `"regress"
    - syntax [name(name=caller)] [, *]
    - local is_pwc = inlist("pwcompare", "`cmd'", "`caller'") | inlist
> ("pwmean", "`cmd'", "`caller'")

```

```

        = local is_pwc = inlist("pwcompare", "regress", "") | inlist("pwme
> an", "regress", "")
        - local is_marg = inlist("margins", "`cmd'", "`e(cmd2)'", "`caller
> '")
        = local is_marg = inlist("margins", "regress", "", "")
        - local OPTIONS NOADJust BONferroni DUNCAn DUNNett SCHeffe SIDak S
> NK 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' `scheffe
> ' `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 SID
> ak 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 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_exclus
> ive -----
    - 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_exclus
> ive -----
    - if "METHOD" == "" {
    = if "noadjust" == "" {
      if "ALL" != "" {
        di as err "multiple comparison method required with the adjustal
> l option"
        exit 198
      }
      local METHOD noadjust
      local noadjust noadjust
    }
    - opts_exclusive "ALL" `noadjust' `suboption'
    = opts_exclusive "noadjust" mcompare()
    -----

> ----- begin opts_exclus
> ive -----
    - 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_exclus
> ive -----
- 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 s
> vy 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 `METHOD'
> ""
        exit 198
    }
}
- sreturn local method `"'METHOD'"'
= sreturn local method `"noadjust"'
- sreturn local adjustall `"'ALL'"'
= sreturn local adjustall `"''"'

_____  

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

```

```

        - exit
    }
}
> ----- end opts_exclus
> ive
    - 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_dio
> pts
    - 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.GetDio
> pts
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
}
> ----- begin opts_exclus
> ive
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while "`opts'" != "" {

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`allbaselevels` `nobaselevels`"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`baselevels` `nobaselevels`"
= opts_exclusive " "
}

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

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "
}

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

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

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

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

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

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

```



```

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

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

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

> ----- end opts_exclus
> ive -----
    - 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.Wra

> pon _____

```

- 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_exclus

> ive _____

```

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

```

```

        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit
    }
}
> ----- end opts_exclus
> ive -----
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}
> ----- end _get_diopts.Wra
> pon -----
    - if "`fvwrap'" != "" {
    = if "fvwrap(1)" != "" {
    - FVWrap, `fvwrap'
    = FVWrap, fvwrap(1)
}
> ----- begin _get_diopts.FVW
> rap -----
    - syntax, fvwrap(integer)
    - if `fvwrap' < 0 {
    = if 1 < 0 {
        di as err "{p}invalid option {bf:fvwrap(`fvwrap')}"; " "nonne
> gative integer required{p_end}"
        exit 198
    }
}
> ----- end _get_diopts.FVW
> rap -----
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
    = 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.GetDio
> pts _____
- 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.GetDio
> pts _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
- opts_exclusive ``allbaselevels' `noallbaselevels''
= opts_exclusive " "

```

```

> _____ begin opts_exclus
> ive _____
- version 8.2

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

= opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---



```

```

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

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

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

> ----- end opts_exclus
> ive -----
    - 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.Wra
> pon -----

```

```

- 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_exclus
> ive -----

```

```

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

```

```

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

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

> _____ end _get_diopts.Wra
> pon _____
- if ``fvwrap'' != "" {
= if "" != "" {
    FVWrap, `fvwrap'
    }
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
= c_local DEFAULT
- if `K' == 2 {
= if 1 == 2 {
    c_local `c_opts' ``options''
    }
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95
}

> _____ end _get_diopts.GetDio
> pts _____
- if ``name2'' == "" {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`emptycells' `noemptycells'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab

```



```

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

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

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

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

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

```

```

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

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

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "

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

```

```

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

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

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

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

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

```

```

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

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____

```

```

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

```

```

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

```

```

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwraapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwraapon
    = opts_exclusive " " fvwraapon

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

> _____ end opts_exclus
> ive _____
    - local fvwraapon `word' `width'
    = local fvwraapon
    - if `:length local fvwraapon' {
    = if 0 {
        c_local fvwraapon fvwraapon(`fvwraapon')
    }

```

```

> _____ end _get_diopts.Wra
> pon _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
      FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basele
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `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.GetDio
> pts _____
    - 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_dio
> pts _____
- 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_dio
> pts _____
- 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.GetDio
> pts _____
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
- syntax namelist(max=2) [, `DIOPTS' *]
= syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

> ----- begin opts_exclus

```

```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

> _____ begin _get_diopts.Wra
> pon _____

```

```

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

```

```

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

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

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

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

> _____ end _get_diopts.FVW
> rap _____
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel

```

```

> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
      = 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.GetDio
> pts _____
      - 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.GetDio
> pts _____
      - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve

```

```

> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus

```

```

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

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

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

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

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

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`noci` `nopvalues`"
= opts_exclusive " "
}

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

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

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

```



```

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

```

```

- exit
> ----- end opts_exclus
> ive -----
- 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.Wra
> pon _____

```

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwraon() option;"
    syntax [, W0rd WIdth]
}

```

```

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


---


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


---


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


---


> ----- end _get_diopts.Wra
> pon -----
    - if "`fvwrap'" != "" {
= if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `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.GetDio
> pts _____
    - if ``name2''' == '' {
    = if `''' == '' {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab

```



```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
}

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

```

```

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

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

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus` `compare`"
= opts_exclusive " "
}

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

```

```

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

```

> _____ begin _get_diopts.Wra

> pon _____

```

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

```

> _____ begin opts_exclus

> ive _____

```

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

```

```

> _____ end opts_exclus
> ive _____
      - local fwwrapon `word' `width'
      = local fwwrapon
      - if `:length local fwwrapon' {
      = if 0 {
        c_local fwwrapon fwwrapon(`fwwrapon')
      }
      _____

> _____ end _get_diopts.Wra
> pon _____
      - if "`fwwrap'" != "" {
      = if "" != "" {
        FWWrap, `fwwrap'
      }
      - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fwwrap' `fwwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
      = c_local DUPS
      - if `K' == 2 {
      = if 1 == 2 {
        c_local `c_opts' ``options'
      }
      - sreturn local coding `coding'
      = sreturn local coding
      - sreturn local versus `versus'
      = sreturn local versus
      - sreturn local compare `compare'
      = sreturn local compare
      - sreturn local level `level'
      = sreturn local level 95
      _____

> _____ end _get_diopts.GetDio
> pts _____
      - }
      - 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_dio
> pts _____
    - local cformat ``s(cformat)'"
    = local cformat `"'
    - local sformat ``s(sformat)'"
    = local sformat `"'
    - local pformat ``s(pformat)'"
    = local pformat `"'
    - _get_eformopts , eformopts(`options') allowed(__all__) soptions
    = _get_eformopts , eformopts() allowed(__all__) soptions
}

> _____ begin _get_eformo
> pts _____
    - 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 confirmname 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 T
> Ratio ]
    - foreach ef of local efopts {

```



```

    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'"!="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_eformo

```

```

> pts
- 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_
> m_cons_ti'"), ``eform_cons_ti2'")
  }
- local coefttl = cond("`eform'""=="", ``coeftitle'', ``eformd
> i'')
= local coefttl = cond("`'""=="", ``'', ``'')
- local options ``s(options)''
= local options ``''
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)
}

> ----- begin _get_diparmo
> pts
- 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 level(95)
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk , level(95)

```

```

> _____ begin _get_diparmopts.SpliceGlob
> als _____
    - syntax name(id="macro name" name=c_diparm) [, diparm(string as
> is) Level(cilevel) dof(passthru) syntaxonly ]
    - if ``dof''' == '' & ``e(df_r)''' != '' {
    = if `''' == '' & `208''' != '' {
    - capture confirm integer number `e(df_r)'
    = capture confirm integer number 208
    - if !c(rc) {
    - local gdof dof(`e(df_r)')
    = local gdof dof(208)
    - }
    - 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.SpliceGlob
> als _____
    - 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_diparmo

> pts

```

- 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_dio

> pts _____

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

```

```

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

```

```

> _____ end opts_exclus
> ive _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

```

```

> _____ begin opts_exclus

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

> ive
- opts_exclusive "`abbrev' `noabbrev'"

```

```

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

> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwraapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwraapon
= opts_exclusive " " fvwraapon

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

> _____ end opts_exclus
> ive _____
    - local fvwraapon `word' `width'
= local fvwraapon
    - if `:length local fvwraapon' {
= if 0 {
        c_local fvwraapon fvwraapon(`fvwraapon')
    }

```

```

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

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

> _____ end _get_diopts.FVW
> rap _____
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
    = 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.GetDio
> pts _____
    - c_local `name1' ``diopts''
    = c_local __000009 ``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.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "

```

```

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

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "
    }

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
    }

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

```

```

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

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

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

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

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

```

```

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

```

```

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

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "'versus' `compare'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus

```



```

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

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

> ----- end opts_exclus
> ive -----
      - 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')
    }
    - Wraapon , `fvwraapon'
= Wraapon ,

> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwraapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwraapon
= opts_exclusive " " fvwraapon

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

> _____ end opts_exclus
> ive _____
    - local fvwraapon `word' `width'
= local fvwraapon
    - if `:length local fvwraapon' {
= if 0 {
        c_local fvwraapon fvwraapon(`fvwraapon')

```

```

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

```

```

> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYTYPE(pa
> ssthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`baselevels' `nbaselevels'"
    = opts_exclusive " "

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
}

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

```



```

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

```

```

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

```

> ive

```
- 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')
    }
- Wraapon , `fvwraapon'
= Wraapon ,

```

```
> _____ begin _get_diopts.Wra
```

```
> pon _____
```

```

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

```

```

= opts_exclusive " " fvwrapon
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
    _____
> _____ end _get_diopts.Wra
> pon _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `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.GetDio
> pts _____
- }
- 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_dio
> pts _____
- 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) and "
                    local note3 "{help j_cmrisk##|_new:relative-risk ratios} "
                    local note4 "for case-specific variables."
                    di as txt "{p 0 6 2}Note: `note1'`note2'`note3'`note4'{p_end}"
                }
            }
            if "`eform_cons_ti'" == "Inc. rate" {
                local eform_cons_note "incidence rate"
            }
            else if "`eform_cons_ti'" == "Rel. risk" {
                local eform_cons_note "relative risk"
            }
            else if "`eform_cons_ti'" == "Health" {
                local eform_cons_note "health (probability of no disease)"
            }
            else {
                local eform_cons_note = strlower("`eform_cons_ti'")
            }
            local eform_cons_note "baseline `eform_cons_note'"
            if ("`e(cmd2)'"=="") {
                local cmd `e(cmd)'
            }

```

```

        else {
            local cmd `e(cmd2)'
        }
        local f2 = 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)'"=="c
> mclogit" | "`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_ta
> ble _____
> _____ end _ereturn_disp
> lay _____
- mat `b1' = (1/`mean')*e(b)
= mat __000006 = (1/__000001)*e(b)
- mat score double `xb' = `b1' `if'
= mat score double __000004 = __000006 if __000000
- LikePois `y' `xb' `poff' [`weight' `exp'] `if', n(`nobs')
= LikePois y_timing_max __000004 [] if __000000, n(__000002)

> _____ begin poisson.LikeP
> ois _____
- 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 __000009 = y_timing_max*(__000004)-exp(__000004)-lnga
> mma(y_timing_max+1) if __000000
    - summarize `lnf' `wt' `if', meanonly
    = summarize __000009 if __000000, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000002 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)

> _____ end poisson.LikeP
> ois _____
    - scalar `lnf1' = r(lnf)
    = scalar __000008 = r(lnf)
    - }
    - if "`constan'"==" " {
    = if ""==" " {
    - SolveC `y' `xb'`poff' [`weight'`exp'] `if', n(`nobs') mean(`mean')
    = SolveC y_timing_max __000004 [] if __000000, n(__000002) mean(__000001
> )

> _____ begin poisson.Sol
> veC _____
    - 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 __000004
    - if _rc {
        tempvar xbnew
        qui gen double `xbnew' = (`xb') `if'
        local xb `xbnew'
    }

```

```

- summarize `xb' [`weight'`exp'] `if', meanonly
= summarize __000004 [] if __000000, meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __000002 { 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 __000009 = exp(__000004) if __000000
- summarize `expoff' [`weight'`exp'], meanonly
= summarize __000009 [], meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __000002 { exit }
- return scalar _cons = ln(`mean')-ln(r(mean))`shift'
= return scalar _cons = ln(__000001)-ln(r(mean))

```

```

> ----- end poisson.Sol
> veC -----
- tempname c
- scalar `c' = r(_cons)
= scalar __000009 = r(_cons)
- if `c'<. {
= if __000009<. {
- local c "+`c'"
= local c "+__000009"
- }
- else local c
- LikePois `y' `xb'`poff'`c' [`weight'`exp'] `if', n(`nobs')
= LikePois y_timing_max __000004+__000009 [] if __000000, n(__000002)

```

```

> ----- begin poisson.LikeP
> ois -----
- 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 __00000A = y_timing_max*(__000004+__000009)-exp(__000
> 004+__000009)-lgamma(y_timing_max+1) if __000000
    - summarize `lnf' `wt' `if', meanonly
    = summarize __00000A if __000000, meanonly
    - if r(N) != `nobs' { exit }
    = if r(N) != __000002 { exit }
    - if "`weight'"=="aweight" {
    = if ""=="aweight" {
        ret scalar lnf = r(N)*r(mean)
    }
    - else ret scalar lnf = r(sum)

_____  

> _____ end poisson.LikeP
> ois _____
    - tempname lnf1c
    - scalar `lnf1c' = r(lnf)
    = scalar __00000A = r(lnf)
    - }
    - else local lnf1c .
    - capture {
    - gen double `z' = `y'*exp(-(`xb'`poff'`c'))-1 +`xb'`c' `if'
    = gen double __000005 = y_timing_max*exp(-(__000004+__000009))-1 +__0000
> 04+__000009 if __000000
    - `vv' _regress `z' `xvars' [aw=`wt'exp(`xb'`poff'`c')]] `if', `constan'
    = version 18.5, missing: _regress __000005 rule_g rule_itr estimated 0b
> .cb_authors_ext#0b.vint_mid0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b
> .vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_a
> uthors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vi
> nt_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.c
> b_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early [aw=exp(__000004
> +__000009)] if __000000,

_____  

> _____ begin _ereturn_disp
> lay _____
    - 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_mcomp
> are _____
    - version 11
    - local cmd ``e(cmd)'''
    = local cmd ``regress''
    - syntax [name(name=caller)] [, *]
    - local is_pwc = inlist("pwcompare", ``cmd'", ``caller'") | inlist("
> pwmean", ``cmd'", ``caller'")
    = local is_pwc = inlist("pwcompare", "regress", "") | inlist("pwmean
> ", "regress", "")
    - local is_marg = inlist("margins", ``cmd'", ``e(cmd2)'", ``caller'"
> )
    = local is_marg = inlist("margins", "regress", "", "")
    - local OPTIONS NOADJUST BONferroni DUNCAN DUNNett SCHeffe 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' `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 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' `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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'"" != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

> _____ end opts_exclus
> ive _____
    - 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_exclus
> ive
    - 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_exclus
> ive
    - 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(`vc
> e)'"
        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_mcomp
> are -----
    - 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_dio
> pts -----
    - 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.GetDio
> pts _____
    - 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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts

```



```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2

```

```

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

> ----- end opts_exclus
> ive -----
- 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) [, `DI0PTS' ]
}
- if reldif(`level', c(level)) > 1e-3 {
= if reldif(95, c(level)) > 1e-3 {

```

```

        local levelopt level(`level')
    }
    - Wrapon , `fvwrapon'
    = Wrapon ,

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

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

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

```



```

= FWWrap, fvwrap(1)
> _____ begin _get_diopts.FVW
> rap _____
    - syntax, fvwrap(integer)
    - if `fvwrap' < 0 {
    = if 1 < 0 {
        di as err "{p}invalid option {bf:fvwrap(`fvwrap')}"; " "nonnega
> tive integer required{p_end}"
        exit 198
    }
    _____
> _____ end _get_diopts.FVW
> rap _____
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselev
> els' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflege
> nd' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fv
> wrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
    = c_local diopts 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.GetDio
> pts _____
    - 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.GetDio
> pts _____
- 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_exclus
> ive _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {
local ++n
gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclus
> ive _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

```

```

> _____ begin opts_exclus

```

```

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

> ive
- opts_exclusive "`abbrev' `noabbrev'"

```

```

= opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


    - 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwraapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwraapon
= opts_exclusive " " fvwraapon

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

> _____ end opts_exclus
> ive _____
    - local fvwraapon `word' `width'
= local fvwraapon
    - if `:length local fvwraapon' {
= if 0 {
        c_local fvwraapon fvwraapon(`fvwraapon')
    }

```

```

> _____ end _get_diopts.Wra
> pon _____
    - 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 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.GetDio
> pts _____
    - if ``name2'' == "" {
    = if ``' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,
    _____
> _____ begin _get_diopts.GetDio
> pts _____
    - 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_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

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

```

```

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

```

```

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

```

```

> ----- begin opts_exclus

```

```

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

> ----- end opts_exclus

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

> ----- begin opts_exclus

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

```

```

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

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

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

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

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

```

```

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

```

```

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

```



```

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

```

```

> _____ begin _get_diopts.Wra
> pon _____

```

```

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

```

```

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

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

> _____ end _get_diopts.Wra
> pon _____
    - 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 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.GetDio
> pts
- }
- 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_dio
> pts
- 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' `first'
> `neqopt' `plus' `beta' `mcopt' `diopts'
    = _coef_table, nodiparm nocnsreport noeqcheck eformall showeqns neq(1
> ) mcompare(noadjust ) fvwrap(1)

_____
> _____ begin _coef_ta
> ble _____
    - 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(string)
> ) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) PMATr
> ix(string) TSMATrix(string) ROWCFormat(string) ROWPFormat(string) ROWSFormat
> (string) NOROWCI MMATrix(string) MVMATrix(string) MEMATrix(string) BSTDMATri
> x(string) CNSMATrix(string) PCLASSMATrix(string) Level(cilevel) prefix(name)
> cnszero(string) suffix(name) OFFSETlist(string asis) `beta' `standardized'
> NOCI NOPValues `dftable' `dfonly' dfci DFPValues dfmissing `groups' COEFLege
> nd selegend `fvignore' `flignore' `showginvariant' `nolabel' `nofootnote' `w
> rap' sort `pisematrix' depname(string) COEFTitle(string) coeftitle2(string)
> ptitle(string) cititle(string) NOMCLEGen noCNSReport FULLCNSReport `noclust
> report' cformat(passthru) sformat(passthru) pformat(passthru) NOFirst First
> SHOWEQns neq(integer -1) NODIPARM NOTEST SEParator(integer 0) NOSKIP OFFSETO
> NLY1 Plus NOEQCHECK EFORMALL CITYPE(string) eqselect(string) cidisjoint noEF
> ORMNOTE * ]
= syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(string)
> ) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) PMATr
> ix(string) TSMATrix(string) ROWCFormat(string) ROWPFormat(string) ROWSFormat
> (string) NOROWCI MMATrix(string) MVMATrix(string) MEMATrix(string) BSTDMATri
> x(string) CNSMATrix(string) PCLASSMATrix(string) Level(cilevel) prefix(name)
> cnszero(string) suffix(name) OFFSETlist(string asis) Beta NOCI NOPValues
> dfci DFPValues dfmissing COEFLegend selegend sort depname(string) C
> OEFTitle(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEGen
> d noCNSReport FULLCNSReport cformat(passthru) sformat(passthru) pformat(pas
> sthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SEParator(inte
> ger 0) NOSKIP OFFSETONLY1 Plus NOEQCHECK EFORMALL CITYPE(string) eqselect(st
> ring) cidisjoint 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
        }
    }

    - _novce_other_mats, cimatrix("`cimatrix'") pmatrix("`pmatrix'") tsm
> arix("`tsmatrix'") `noci' `nopvalues' `dfci' `dfpvalues' `cidisjoint'
    = _novce_other_mats, cimatrix("") pmatrix("") tsmatrix("")

_____  

> _____ begin _coef_table._novce_other_m
> ats _____
    - syntax [anything], [ CIMATrix(string) PMATrix(string) TSMATrix(s
> tring) NOCI NOPValues dfci DFPValues cidisjoint ]
    - if("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`cimatr
> ix'"!=" & "`noci'"!=") {
        = if ("==" & "==" & "matrix"==" & "!=" & "!=") {
            sreturn local cimatrix "empt"
        }
        - if("`pmatrix'"=="" & "`tsmatrix'"!=" & "`e(V)'"=="" & "`cimatr
> ix'"=="" & ("`noci'"!="|"`nopvalues'"!=")) {
            = if ("==" & "!=" & "matrix"==" & "==" & ("!="|!=")) {
                sreturn local noci "empt"
                sreturn local nopvalues "empt"
            }
            - if("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`cimatr
> ix'"!=" & "`noci'"!=") {
                = if ("==" & "==" & "matrix"==" & "!=" & "!=") {
                    sreturn local cimatrix "empt"
                }
                - if("`pmatrix'"!=" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`cimatr
> ix'"=="" & "`nopvalues'"!=") {
                    = if ("!=" & "==" & "matrix"==" & "==" & "!=") {
                        sreturn local pmatrix "empt"
                    }
                    - if("`pmatrix'"!=" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`cimatr
> ix'"=="" & "`noci'"!=") {
                        = if ("!=" & "==" & "matrix"==" & "==" & "!=") {
                            sreturn local noci "empt"
                        }
                        - if("`pmatrix'"!=") {
                            = if ("!=") {
                                tempname pmat invalid
                                capture matrix `pmat' = `pmatrix'
                                local rc = _rc
                                if (`rc') {
                                    display as error "invalid {bf:pmatrix()}"
                                    exit 198
                                }
                            }
                        }
                    }
                }
            }
        }
    }

```



```

}
else {
    local k: rowsof `pmat'
    if (`k'>1 | `k'==0) {
        display as error "{bf:pmatrx()}" should be a row vector"
        exit 198
    }
}
scalar `isvalid' = 1
mata: _is_in_0_1void("`pmat'", "`isvalid'")
if (`isvalid'==0) {
    display as error "invalid {bf:pmatrx()}"
    di as txt "{p 4 4 2}"
    di as smcl as err "{bf:pmatrx()}"
    di as smcl as err "should contain values inside"
    di as smcl as err "the interval [0,1]."
    di as smcl as err "{p_end}"
    exit 198
}
}
- if("`tsmatrix'"!="") {
= if ("!=") {
    tempname tmat
    capture matrix `tmat' = `tsmatrix'
    local rc = _rc
    if (`rc') {
        display as error "invalid {bf:tsmatrix()}"
        exit 198
    }
    else {
        local k: rowsof `tmat'
        if (`k'>1 | `k'==0) {
            display as error "{bf:tsmatrix()}" should be a row vector"
            exit 198
        }
    }
}
- if("`cimatrx'"!="") {
= if ("!=") {
    tempname cimat isvalid
    capture matrix `cimat' = `cimatrx'
    local rc = _rc
    if (`rc') {
        display as error "invalid {bf:cimatrx()}"
        exit 198
    }
}

```

```

if ("`cidisjoint'"=="" & "`e(disjoint)'"=="") {
  scalar `isvalid' = 1
  mata: _is_in_ci("`cimat'", "`isvalid'")
  if (`isvalid'==0) {
    display as error "invalid {bf:cimatrix()}"
    di as txt "{p 4 4 2}"
    di as smcl as err "{bf:cimatrix()}"
    di as smcl as err "lower limit should be"
    di as smcl as err "smaller than the upper"
    di as smcl as err "limit."
    di as smcl as err "{p_end}"
    exit 198
  }
}
}
}
- if ("`e(V)'"=="" & "`dfci'"!="" & "`pmatrx'"!="") {
= if ("matrix"=="" & ""!="" & ""!="") {
  opts_exclusive "pmatrx() `dfci'"
}
- if ("`e(V)'"=="" & "`dfci'"!="" & "`tsmatrix'"!="") {
= if ("matrix"=="" & ""!="" & ""!="") {
  opts_exclusive "tsmatrix() `dfci'"
}
- if ("`e(V)'"=="" & "`dfci'"!="" & "`cimatrix'"!="") {
= if ("matrix"=="" & ""!="" & ""!="") {
  opts_exclusive "cimatrix() `dfci'"
}
- if ("`e(V)'"=="" & "`dfpvalues'"!="" & "`pmatrx'"!="") {
= if ("matrix"=="" & ""!="" & ""!="") {
  opts_exclusive "pmatrx() `dfci'"
}
- if ("`e(V)'"=="" & "`dfpvalues'"!="" & "`tsmatrix'"!="") {
= if ("matrix"=="" & ""!="" & ""!="") {
  opts_exclusive "tsmatrix() `dfpvalues'"
}
- if ("`e(V)'"=="" & "`dfpvalues'"!="" & "`cimatrix'"!="") {
= if ("matrix"=="" & ""!="" & ""!="") {
  opts_exclusive "cimatrix() `dfpvalues'"
}
}

```

```
> _____ end _coef_table._novce_other_m
```

```
> ats _____
- if ("`s(cimatrix)'"=="empt") {
= if ("=="empt") {
  local cimatrix ""
}

```

```

- if ("`s(pmatrix)'"=="empt") {
= if ("'"=="empt") {
  local pmatrix ""
}
- if ("`s(noci)'"=="empt") {
= if ("'"=="empt") {
  local noci ""
}
- if ("`s(nopvalues)'"=="empt") {
= if ("'"=="empt") {
  local nopvalues ""
}
- if ("`e(V)'"!=" & "`cidisjoint'"!="") {
= if ("matrix"!=" & ""!="") {
  display in red "option {bf:cidisjoint} not allowed when e(V) is po
> sted"
  exit 198
}
- else local fvlabel `nofvlabel' `fvlabel'
= else local fvlabel
- local type `coeflegend' `selegend'
= local type
- opts_exclusive "`type' `standardized'"
= opts_exclusive " "

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

> ----- end opts_exclus
> ive -----
  - 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' `groups' `
> dfci' `dfpvalues'
        = local type
        - }
        - opts_exclusive "`type'"
        = opts_exclusive ""
    }

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

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`first' `nofirst'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'`` != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`first' `showeqns'"
    = opts_exclusive " showeqns"
    _____
> _____ begin opts_exclus
> ive _____
    - 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_exclus
> ive -----
    - local cnsreport `cnsreport' `fullcnsreport'
    = local cnsreport nocnsreport
    - opts_exclusive "`cnsreport'"
    = opts_exclusive "nocnsreport"
}
> ----- begin opts_exclus
> ive -----
    - 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_exclus
> ive -----
    - 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_mcomp
> are _____
      - version 11
      - local cmd ``e(cmd)''
      = local cmd `regress'
      - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", "`cmd'", "`caller'") | inlist
> ("pwmean", "`cmd'", "`caller'")
      = local is_pwc = inlist("pwcompare", "regress", "") | inlist("pwme
> an", "regress", "")
      - local is_marg = inlist("margins", "`cmd'", "e(cmd2)'", "`caller
> '")
      = local is_marg = inlist("margins", "regress", "", "")
      - local OPTIONS NOADJUST BONferroni DUNCAN DUNNett SCHeffe SIDak S
> NK 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' `scheffe
> ' `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 SID
> ak 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 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_exclus
> ive _____
    - 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_exclus
> ive _____
    - if "`METHOD'" == "" {
    = if "noadjust" == "" {
        if "`ALL'" != "" {
            di as err "multiple comparison method required with the adjustal
> l option"
            exit 198
        }
        local METHOD noadjust
        local noadjust noadjust
    }
    - opts_exclusive "`ALL' `noadjust'" `suboption'
    = opts_exclusive " noadjust" mcompare()

```



```

> ----- begin opts_exclus
> ive -----
    - 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_exclus
> ive -----
    - 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 s
> vy 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 `METHOD'
> ""
        exit 198
        }
        }
        - sreturn local method ``METHOD''
        = sreturn local method "noadjust"
        - sreturn local adjustall ``ALL''
        = sreturn local adjustall ""

        _____
> _____ end _get_mcomp
> are _____
        - 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_exclus
> ive _____
        - version 8.2
        - args opts optname errcode optslab
        - local opts `opts'

```

```

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

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

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

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

```

```

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

```



```

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

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

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

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

> ----- end opts_exclus
> ive -----
    - 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')
}
- Wraupon , `fvwraupon'
= Wraupon ,

```

> _____ begin _get_diopts.Wra

> pon _____

```

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

```

> _____ begin opts_exclus

> ive _____

```

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

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

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

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

> _____ end _get_diopts.FVW
> rap _____
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `

```

```

> fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
    = 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.GetDio
> pts _____
    - 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.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FWWRAP(passthru) FWRA
> PON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cfo

```

```

> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *)
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
        }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
        }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`baselevels' `nobaselevels'"

```

```

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
}

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

```



```

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

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

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

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

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

```

```

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

```

```

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

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

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

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

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

```

```

> ----- end opts_exclus
> ive -----
- 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.Wra
> pon _____

```

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwraon() option;"
    syntax [, W0rd WIdth]
    exit 198
    }

```

```

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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 end _get_diopts.Wra
> pon 

---


- if "`fvwrap'" != "" {
= if "" != "" {
  FVWrap, `fvwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwraupon' `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.GetDio
> pts _____
- if ``name2''' == "" {
= if ``options''' == "" {
  GetDiopts DUPS, `options'
}
- else {
- GetDiopts DUPS options, `options'
= GetDiopts DUPS options,

```

```

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

```

```

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

```

```

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

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

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

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

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

```



```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`emptycells' `noemptycells'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2

```

```

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

> ----- end opts_exclus
> ive -----
    - 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.Wra

> pon _____

```

- 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_exclus

> ive _____

```

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

```

```

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

> _____ end _get_diopts.Wra
> pon _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
    = c_local 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.GetDio
> pts _____
    - 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_dio
> pts _____
    - 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_dio
> pts _____
    - 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.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFlegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA

```

```

> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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

```

```

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

```

```

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

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab

```

```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}
> ----- end opts_exclus
> ive -----
    - 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.Wra
> pon _____

```

```

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

```

```

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

```

```

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

```

```

> ----- begin _get_diopts.FVW
> rap -----
    - syntax, fvwrap(integer)
    - if `fvwrap' < 0 {
    = if 1 < 0 {

```

```

        di as err "{p}invalid option {bf:fvwrap(`fvwrap')}); " "nonne
> gative integer required{p_end}"
        exit 198
    }
}

-----
> ----- end _get_diopts.FVW
> rap -----
    - }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
    = c_local 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.GetDio
> pts -----
    - 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.GetDio

```

```

> pts -----
      - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
      - syntax namelist(max=2) [, `DIOPTS' *]
      = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> sssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> sssthru) NOABBREV ABBREV *]
      - opts_exclusive "`allbaselevels' `noallbaselevels'"
      = opts_exclusive " "
-----
> ----- begin opts_exclus
> ive -----
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while `""opts"" != "" {
      = while `"" != "" {
        local ++n
        gettoken item`n' opts : opts, bind
      }
      - if `n' < 2 {
      = if 0 < 2 {
      - exit
-----
> ----- end opts_exclus
> ive -----
      - opts_exclusive "`allbaselevels' `nobaselevels'"
      = opts_exclusive " "
-----
> ----- begin opts_exclus
> ive -----
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while `""opts"" != "" {

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`baselevels` `nobaselevels`"
= opts_exclusive " "

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`emptycells` `noemptycells`"
= opts_exclusive " "

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

```

```

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

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

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

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

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

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "

```

```

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

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

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

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

> ----- begin opts_exclus

```



```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
- 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')
  }
}

```

```

- Wraapon , `fvwraapon'
= Wraapon ,

```

```

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

```

```

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

```

```

> ----- end _get_diopts.Wra
> pon -----
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel

```

```

> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `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.GetDio
> pts _____
    - if ``name2'' == '' {
    = if ``' == '' {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,
    _____
> _____ begin _get_diopts.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`emptycells` `noemptycells`"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`fvlabel` `nofvlabel`"
= opts_exclusive " "
}

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

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
}

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

```



```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "

```

```

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

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

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

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

> ----- begin opts_exclus

```

```

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

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

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

>
> end opts_exclus
> ive
    - 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.Wra

> pon _____

```

- 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_exclus

> ive _____

```

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

```

```

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

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

> _____ end _get_diopts.Wra
> pon _____
    - if ``fvwrap'' != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `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.GetDio
> pts _____
    - }
    - 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_dio
> pts _____
    - local cformat ``s(cformat)''
    = local cformat `''
    - local sformat ``s(sformat)''
    = local sformat `''
    - local pformat ``s(pformat)''
    = local pformat `''
    - _get_eformopts , eformopts(`options') allowed(__all__) soptions
    = _get_eformopts , eformopts() allowed(__all__) soptions

> _____ begin _get_eformo
> pts _____
    - 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 confirmname `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 confirmname 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 T
> Ratio ]
    - 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_eformo
> pts -----
- 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_
> m_cons_ti'"), ``eform_cons_ti2'')
}
- local coefttl = cond("`eform'"=="", ``coeftitle'', ``eformd
> i'')
= local coefttl = cond(`'"=="", `'', `')
- local options ``s(options)'''
= local options `'''
- _get_diparmopts, diparmopts(`options') level(`level')
= _get_diparmopts, diparmopts() level(95)

```

```

> ----- begin _get_diparmo
> pts -----
- 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 level(95)
- SpliceGlobals junk , `goptions'
= SpliceGlobals junk , level(95)

> _____ begin _get_diparmopts.SpliceGlob
> als _____
- syntax name(id="macro name" name=c_diparm) [, diparm(string as
> is) Level(cilevel) dof(passthru) syntaxonly ]
- if ```dof''' == "" & ```e(df_r)''' != "" {
= if `''' == "" & ``208''' != "" {
- capture confirm integer number `e(df_r) '
= capture confirm integer number 208
- if !c(rc) {
- local gdof dof(`e(df_r) ' )
= local gdof dof(208)
- }
- 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.SpliceGlob
> als _____
- 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_diparmo

> pts

```

- 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_dio
> pts _____
    - 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.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "
}
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```

```

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

```

```

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

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
}

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

```

```

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

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

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus` `compare`"
= opts_exclusive " "
}

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

```

```

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

> pon _____

```

- 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_exclus

> ive _____

```

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

```

```

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

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

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

> _____ end _get_diopts.FVW
> rap _____
      - }
      - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
      = 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.GetDio
> pts _____
    - 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.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell
> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABEL FVLABEL NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive ``allbaselevels' `noallbaselevels''
    = opts_exclusive " "
    _____

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

```

```

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

```

```

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

```

```

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "
}

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

```

```

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

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

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

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

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

```



```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev` `noabbrev`"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - 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.Wra

> pon _____

```

- 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_exclus

> ive _____

```

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

```

```

        - exit
    _____
> _____ end opts_exclus
> ive _____
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
    _____
> _____ end _get_diopts.Wra
> pon _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `noci' `nopvalues' `markdown' `citype' `abbrev'
    = c_local DEFAULT
    - if `K' == 2 {
    = if 1 == 2 {
        c_local `c_opts' ``options''
    }
    - sreturn local coding `coding'
    = sreturn local coding
    - sreturn local versus `versus'
    = sreturn local versus
    - sreturn local compare `compare'
    = sreturn local compare
    - sreturn local level `level'
    = sreturn local level 95
    _____
> _____ end _get_diopts.GetDio
> pts _____
    - if ``name2'' == "" {
    = if ``' == "" {
        GetDiopts DUPS, `options'
    = GetDiopts DUPS,
    _____
> _____ begin _get_diopts.GetDio
> pts _____
    - local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElev
> els NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcell

```

```

> s NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cformat(string)
> sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(passthru) FVWRA
> PON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(passthru) NOABB
> REV ABBREV
    - syntax namelist(max=2) [, `DIOPTS' *]
    = syntax namelist(max=2) [, Level(cilevel) vsquish NOALLBASEleve
> ls ALLBASElevels NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYce
> lls EMPTYcells NOOMITted OMITted NOLSTRETCH LSTRETCH COEFLegend SELEGEND cfo
> rmat(string) sformat(string) pformat(string) CODING VERSUS COMPARE FVWRAP(pa
> ssthru) FVWRAPON(string) NOFVLABel FVLABel NOCI NOPValues MARKDOWN CITYPE(pa
> ssthru) NOABBREV ABBREV *]
    - opts_exclusive "`allbaselevels' `noallbaselevels'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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

```

```

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

```

```

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

```

```

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

```



```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "
}

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab

```

```

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

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

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

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

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

```

```

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

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

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

> _____ end _get_diopts.Wra
> pon _____
    - if "`fvwrap'" != "" {
    = if "" != "" {
        FVWrap, `fvwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fvwrap' `fvwrapon' `fvlabel' `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.GetDio
> pts _____
    - }
    - 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_dio
> pts _____
    - 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) and "
            local note3 "{help j_cmrisk##|_new:relative-risk ratios} "
            local note4 "for case-specific variables."
            di as txt "{p 0 6 2}Note: `note1'`note2'`note3'`note4'{p_end}"
          }
        }
        if "`eform_cons_ti'" == "Inc. rate" {
          local eform_cons_note "incidence rate"
        }
        else if "`eform_cons_ti'" == "Rel. risk" {
          local eform_cons_note "relative risk"
        }
        else if "`eform_cons_ti'" == "Health" {

```

```

        local eform_cons_note "health (probability of no disease)"
    }
    else {
        local eform_cons_note = strlower("`eform_cons_ti'")
    }
    local eform_cons_note "baseline `eform_cons_note'"
    if ("`e(cmd2)'"=="") {
        local cmd `e(cmd)'
    }
    else {
        local cmd `e(cmd2)'
    }
    local f2 = 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)'"=="c
> mclogit" | "`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_ta  

> ble _____  

_____  

> _____ end _ereturn_disp  

> lay _____
- mat `b2' = e(b)
= mat __000007 = e(b)
- drop `xb'
= drop __000004
- _predict double `xb' `if'
= _predict double __000004 if __000000
- LikePois `y' `xb'`poff' [`weight'`exp'] `if', n(`nobs')
= LikePois y_timing_max __000004 [] if __000000, n(__000002)

```

```

> ----- begin poisson.LikeP
> ois
- gettoken y 0 : 0
- gettoken xb 0 : 0
- syntax [fw aw pw iw] [if] , Nobs(string)
- if "`weight'"!="" {
= if ""!="" {
  if "`weight'"=="fweight" {
    local wt `[fw`exp']
  }
  else if "`weight'"=="iweight" {
    local wt `[iw`exp']
  }
  else local wt `[aw`exp']
}
- tempvar lnf
- qui gen double `lnf' = `y'*(`xb')-exp(`xb')-lngamma(`y'+1) `if'
= qui gen double __00000B = y_timing_max*(__000004)-exp(__000004)-lnga
> mma(y_timing_max+1) if __000000
- summarize `lnf' `wt' `if', meanonly
= summarize __00000B if __000000, meanonly
- if r(N) != `nobs' { exit }
= if r(N) != __000002 { exit }
- if "`weight'"=="aweight" {
= if ""=="aweight" {
  ret scalar lnf = r(N)*r(mean)
}
- else ret scalar lnf = r(sum)

> ----- end poisson.LikeP
> ois
- tempname lnf2
- scalar `lnf2' = r(lnf)
= scalar __00000B = r(lnf)
- }
- if _rc { local lnf2 . }
- if `lnf1'>=. & `lnf1c'>=. & `lnf2'>=. { exit }
= if __000008>=. & __00000A>=. & __00000B>=. { exit }
- if `lnf2'<.(`lnf2'>`lnf1'|`lnf1'>=.)&(`lnf2'>`lnf1c'|`lnf1c'>=.) {
= if __00000B<.(__00000B>__000008|__000008>=.)&(__00000B>__00000A|__000
> 00A>=.) {
- ret matrix b0 `b2'
= ret matrix b0 __000007
- exit

```

```

> ----- end poisson.Ip
> ois -----
- if "`r(b0)'"!="" {
= if "matrix"!=" " {
- tempname from
- mat `from' = r(b0)
= mat __000004 = r(b0)
- }
- }
- if "`from'"!="" {
= if "__000004"!=" " {
- local initopt `"init(`from') search(off)'"
= local initopt `"init(__000004) 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 `mlopts
> ' title(Poisson regression) `scopt' `robust' `clopt' `initopt' `ll0' `negh'
> `moptobj'
= version 18.5, missing: ml model e2 poiss_lf (y_timing_max: y_timing_max
> = rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#
> 1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_au
> thors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vin
> t_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_
> authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#
> 1o.vint_early, ) [] if __000000, collinear missing max nooutput nopreserve
> nolog vce(robust) title(Poisson regression) init(__000004) searc
> h(off) lf0(1 -420.2971615663282) negh

> ----- begin
> ml -----
- if _caller()>=11 {
- mopt `0'
= mopt model e2 poiss_lf (y_timing_max: y_timing_max = rule_g rule_itr e
> stimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_aut
> hors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_l
> ate 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_author
> s_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint
> _early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early, ) [
> ] if __000000, collinear missing max nooutput nopreserve nolog vce(
> robust) title(Poisson regression) init(__000004) search(off) lf0(1 -420.2
> 971615663282) negh

> ----- begin m
> opt -----
- 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 18.5: capture noi Model e2 poiss_lf (y_timing_max: y_timing
> _max = rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors
> _ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.
> cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0
> b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0
> b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors
> _ext#1o.vint_early, ) [] if __000000, collinear missing max nooutput nopres
> erve nolog vce(robust) title(Poisson regression) init(__000004)
> search(off) lf0(1 -420.2971615663282) negh

> _____ begin mopt.Mo
> del _____
- local version = string(_caller())

```

```

- local vv : di "version `version':"
= local vv : di "version 18.5:"
- 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.Cl
> ear
- 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.Cl
> ear
- }
- local maxmin `minimize' `maximize'
= local maxmin maximize
- opts_exclusive ``maxmin''
= opts_exclusive "maximize"

```

```

> ----- begin opts_exclus
> ive
- 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_exclus
> ive -----
- if `:length local maxmin' {
= if 8 {
- local interactive 0
- }
- else local interactive 1
- _get_diparmopts, diparmopts(`options') soptions syntaxonly
= _get_diparmopts, diparmopts(nolog search(off)) soptions syntaxonly
}

> ----- begin _get_diparmo
> pts -----
- 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.SpliceGlob
> als -----
- syntax name(id="macro name" name=c_diparm) [, diparm(string as
> is) Level(cilevel) dof(passthru) syntaxonly ]
- if ``dof'' == "" & ``e(df_r)'' != "" {

```

```

= if `""` == "" & ``208`` != "" {
- capture confirm integer number `e(df_r)`
= capture confirm integer number 208
- if !c(rc) {
- local gdof dof(`e(df_r)`)
= local gdof dof(208)
- }
- 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.SpliceGlob
> als _____
- local 0 `", `diparmopts``
= local 0 `", nolog 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 ``options'' == "" {
= if "options" == "" {
    syntax [, diparm(string asis) ]
  }
  - if ("execute" == "") {
= if (" " == " ") {
  - sreturn clear
  - sreturn local options ``options''
= sreturn local options "nolog 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_diparmo

> pts

```

  - 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 "nolog search(off)"
  - if `interactive' & `:length local options' {
= if 0 & 17 {
    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 429 {
- local ++ieq
- gettoken eq eqspec : eqspec, bind
- if bsubstr(trim("`eq'"),1,1) == "/" {
    = if bsubstr(trim("(y_timing_max: y_timing_max = rule_g rule_itr est
> imated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_autho
> rs_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_lat
> e 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_
> ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_e
> arly 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early,  )"),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("`y_timing_max: y_timing_max = rule_g rule_itr est
> imated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_autho

```

```

> rs_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_lat
> e 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_
> ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_e
> arly 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early, )"')
    - if bsubstr("`p2'",1,1) == "," {
        = if bsubstr("y_timing_max: y_timing_max = rule_g rule_itr estimated
> 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext
> #0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.c
> b_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o
> .vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1
> o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early, )" ,1,1) ==
> "," {
        gettoken comma p2 : p2, parse(",")
        local p2 = trim("`p2'")
    }
    - if "`p1'`p2'" == "()" {
        = if `(y_timing_max: y_timing_max = rule_g rule_itr estimated 0b.cb
> _authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vi
> nt_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_auth
> ors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_
> late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_a
> uthors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early, )"'" == "()" {
        local spec : subinstr local spec "`eq'" "(eq`ieq':)", word
    }
    - }
    - }
    - while `:length local eqspec' {
    = while 3 {
    - local ++ieq
    - gettoken eq eqspec : eqspec, bind
    - if bsubstr(trim("`eq'"),1,1) == "/" {
    = if bsubstr(trim("[]"),1,1) == "/" {
        local eq = bsubstr(trim("`eq'"),2,.)
        local spec : subinstr local spec "/"`eq'" `("eq":`fparm')"' , wor
> d
    }
    - 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')'", 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 18.5: 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._i
> nit _____
    - version 9.2
    - .n_eq = 0

```

```

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

```

```

> _____ end _eqlist._i
> nit _____
- ._setup `0'
  = ._setup , eqopts(NOCONSTant FREEParM) eqargopts(OFFset EXPosure)
> noneedvarlist numdepvars(0) needequal

```

```

> _____ begin _eqlist._se
> tup _____
- version 9.2
- .mark_list = {}
- .mark_name = {}
- .mark_opts.reset

```

```

> _____ begin _optlist.re
> set _____
- version 9
- .options = {}
- .names = {}

```

```

> _____ end _optlist.re
> set _____
- .smark_list = {}
- .smark_name = {}
- .smark_opts.reset

```

```

> _____ begin _optlist.re
> set _____
- version 9
- .options = {}
- .names = {}

```

```

> _____ end _optlist.re
> set _____
- .rmcoll_list = {}
- .rmcoll_name = {}
- .rmcoll_opts.reset

```

```

> _____ begin _optlist.re
> set _____
- version 9

```

```

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

> ----- end _optlist.re
> set -----
    - .rmdcoll_list = {}
    - .rmdcoll_name = {}
    - .rmdcoll_opts.reset
}

> ----- begin _optlist.re
> set -----
    - version 9
    - .options = {}
    - .names = {}
}

> ----- end _optlist.re
> set -----
    - 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.re
> set -----
    - version 9
    - .options = {}
    - .names = {}
}

> ----- end _optlist.re
> set -----
    - foreach opt of local eqopts {
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt NOCONStant
}

> ----- begin _optlist.add
> opt -----
    - 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.add
> opt
    - }
    - .eq_opts_allowed.addopt `opt'
    = .eq_opts_allowed.addopt FREEParm
}

> ----- begin _optlist.add
> opt
    - 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.add
> opt
    - }
    - foreach opt of local eqargopts {
    - .eq_opts_allowed.addopt `opt', passthru
    = .eq_opts_allowed.addopt OFFset, passthru
}

> ----- begin _optlist.add
> opt
    - 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.add

> opt
    - }
    - .eq_opts_allowed.addopt `opt', passthru
    = .eq_opts_allowed.addopt EXPosure, passthru

> begin _optlist.add
> opt
    - 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.add
> opt
    - }
    - 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._se
> tup _____
_____
> _____ end _eqlist.
> new _____
- .`eqlist'.parse `spec'
= .__000006.parse (y_timing_max: y_timing_max = rule_g rule_itr est
> imated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_autho
> rs_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_lat
> e 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_
> ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_e
> arly 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early, ) []
_____
> _____ begin _eqlist.pa
> rse _____
- version 9.2
- .__init
_____
> _____ begin _eqlist._i
> nit _____
- version 9.2
- .n_eq = 0
- .gl_if = ""
- .gl_in = ""
- .gl_wgt = ""
- .gl_options = ""
- .eq_list = {}
_____
> _____ end _eqlist._i
> nit _____
- local MARKOPTLIST ```.mark_opts.dumpoptions'''

```

```

> _____ begin _optlist.dumpopti
> ons _____
    - 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.dumpopti
> ons _____
    = local MARKOPTLIST `'''
    - local SMARKOPTLIST ```.smark_opts.dumpoptions'''
    _____

> _____ begin _optlist.dumpopti
> ons _____
    - 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.dumpopti
> ons _____
    = local SMARKOPTLIST `'''
    - local RMCOLLOPTLIST ```.rmcoll_opts.dumpoptions'''
    _____

> _____ begin _optlist.dumpopti
> ons _____
    - 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.dumpopti
> ons _____
= local RMCOLLOPTLIST `""'
- local RMDCOLLOPTLIST ```.rmdcoll_opts.dumpoptions'''

> _____ begin _optlist.dumpopti
> ons _____
- 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.dumpopti
> ons _____
= 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 1 == 0 & "noneedvarlist" == "" {
  syntax varlist
}
- local rebind = `EQ_n' == 1
= local rebind = 1 == 1
- if `rebind' {
= if 1 {
- tokenize ```0'''', parse(",()[]")
= tokenize ``(y_timing_max: y_timing_max = rule_g rule_itr estimat
> ed 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_e
> xt#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b
> .cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#
> 1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early
> 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early, ) []"', p
> arse(",()[]")
- local rebind = ```1''' != "(" & ```2''' == "("
= local rebind = ``( "' != "(" & ``y_timing_max: y_timing_max = rul

```

```

> e_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vin
> t_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors
> _ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_lat
> e 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_autho
> rs_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vi
> nt_early"" == "("
- }
- 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 = 1/1 {
  - 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 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(60000026ec40):y_timing_max: y_timing_max
> = rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext
> #1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_a
> uthors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vi
> nt_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb
> _authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext
> #1o.vint_early

```

```

> ----- begin _eqspec.pa
> rse -----
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(60000026ec40):y_timing_max: y_timing_max
> = rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext
> #1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_a
> uthors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vi
> nt_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb
> _authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext
> #1o.vint_early

```

```

> ----- begin _on_colon_pa
> rse -----
    - 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(60000026ec40)' == ":" {
        sreturn local after ``after'"
        exit
    }
    - while ``COLON'" != ":" & ``after'" != "" {
    = while `"' != ":" & `":y_timing_max: y_timing_max = rule_g r
> ule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid
> 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#
> 0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.
> cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ex
> t#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_ea
> rly'" != "" {
        - 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 `":' != ":" & `y_timing_max: y_timing_max = rule_g r
> ule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid
> 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#
> 0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.
> cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ex
> t#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_ea
> rly'' != "" {
    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(60000026ec40)''
- sreturn local after ```after''''
= sreturn local after ``y_timing_max: y_timing_max = rule_g ru
> le_itr estimated 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid
> 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0
> b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.c
> b_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext
> #1o.vint_early 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_ear
> ly''

```

```

> _____ end _on_colon_pa

```

```

> rse -----
      - local ol `s(before)'
      = local ol __key(60000026ec40)
      - if `:list sizeof ol' {
      = if 1 {
      - local OPTLIST ```.`ol'.dumpoptions'''
      -----
> ----- begin _optlist.dumpopti
> ons -----
      - 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.dumpopti
> ons -----
      = local OPTLIST ``NOCONSTant FREEParam OFFSET(passthru) EXPosure(
> passthru)'''
      - local OPTNAMES ```.`ol'.dumpnames'''
      -----
> ----- begin _optlist.dumpna
> mes -----
      - 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.dumpna
> mes _____

= local OPTNAMES `noconstant freeparm offset exposure'
- local NOCONS constant noconstant
- if ``:list NOCONS & OPTNAMES''' == "" {
= if `noconstant''' == "" {
  local NOCONS noCONStant
}
- else local NOCONS
- }
- local 0 ``s(after)'''
= local 0 ``y_timing_max: y_timing_max = rule_g rule_itr estimat
> ed 0b.cb_authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_e
> xt#0b.vint_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b
> .cb_authors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#
> 1o.vint_late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early
> 1o.cb_authors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early'''
- 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("y_timing_max") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
}
- if `:list sizeof REST' {
= if 18 {
- if strpos("`NAME'", ":") {
= if strpos("y_timing_max", ":") {
    capture _msparse `NAME'
    if c(rc) {
        di as err "{bf:`NAME'} invalid equation specification"
        exit 198
    }
}
- else {
- . _confirm_eqname `NAME'
= . _confirm_eqname y_timing_max
}

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

> _____ end _eqspec._confirm_eqn
> ame _____
    - }
    - local NAME : list retok NAME
    - gettoken COLON anything : REST, parse(":")
    - }

```

```

- else {
    local NAME
  }
- gettoken DEPVARs REST : anything, parse("=") bind
- if "`DEPVARs'" == "=" {
= if "y_timing_max " == "=" {
    local REST : copy local anything
    local DEPVARs
  }
- if (`:length local DEPVARs' == 0 & `.n_depvars') {
= if (13 == 0 & 0) {
    di as err "nothing found where depvar expected"
    exit 198
  }
- if ``"REST"' == "" {
= if ``" = rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid
> 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#
> 1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb
> _authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0
> b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early
> 1o.cb_authors_ext#1o.vint_early"' == "" {
    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 y_timing_max
- tsunab DEPVARS : `DEPVARS'
= tsunab DEPVARS : y_timing_max
}

> _____ begin tsu
> nab _____
- 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 y_timing_max
- local n : word count `varlist'
= local n : word count y_timing_max
- if `n'>=`min' & `n'<=`max' { exit }
= if 1>=1 & 1<=32000 { exit }

> _____ end tsu
> nab _____
- }
- if `:list sizeof INDEPVARS' {
= if 15 {
- fvunab INDEPVARS : `INDEPVARS'
= fvunab INDEPVARS : rule_g rule_itr estimated 0b.cb_authors_ex
> t#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb
> _authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.v
> int_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_
> authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#
> 0b.vint_early 1o.cb_authors_ext#1o.vint_early

> _____ begin fvu
> nab _____
- version 11
- _on_colon_parse `0'
= _on_colon_parse INDEPVARS : rule_g rule_itr estimated 0b.cb
> _authors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vi
> nt_mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_auth
> ors_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_
> late 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_a

```

```

> uthors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early
> _____ begin _on_colon_pa
> rse _____
    - 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 ``" != ":" & ``" rule_g rule_itr estimated 0b.cb_a
> uthors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint
> _mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_autho
> s_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_la
> te 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_aut
> hors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early" != "" {
    - 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 `":'" != ":" & ``" rule_g rule_itr estimated 0b.cb_a
> uthors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint
> _mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_autho
> s_ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_la
> te 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_aut
> hors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early" != "" {
    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 ` rule_g rule_itr estimated 0b.cb_au
> thors_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_
> mid 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors
> _ext#1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_lat
> e 0b.cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_auth
> ors_ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early"'

----- end _on_colon_pa
> rse -----
- local 0 ``"s(before)'"
= local 0 `INDEPVARs "'
- syntax name(id="macro name" name=user)
- local 0 ``"s(after)'"
= local 0 ` rule_g rule_itr estimated 0b.cb_authors_ext#0b.v
> int_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_autho
> rs_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_la
> te 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_autho
> s_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vin
> t_early 1o.cb_authors_ext#1o.vint_early"'
- syntax [varlist(ts fv default=none)] [, MIN(integer 1) MAX(i
> nteger 32000) NAME(string) ]
- c_local `user' `varlist'
= c_local INDEPVARs rule_g rule_itr estimated 0b.cb_authors_ex
> t#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb
> _authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.v
> int_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_
> authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#
> 0b.vint_early 1o.cb_authors_ext#1o.vint_early
```

```

- local n : list sizeof varlist
- if (`min' <= `n' & `n' <= `max') exit
= if (1 <= 15 & 15 <= 32000) exit

> ----- end fvu
> nab -----
- }
- 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 = `""' != ""
- local OPTIONS
- local SPACE
- foreach OPTNAME of local OPTNAMES {
- if ``OPTNAME'"" != "" {
= if `""' != "" {
  local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'""
  local SPACE " "
}
- }
- if ``OPTNAME'"" != "" {
= if `""' != "" {
  local OPTIONS ``OPTIONS'`SPACE'`OPTNAME'""
  local SPACE " "
}
- }
- if ``OPTNAME'"" != "" {

```

```

= if `""' != "" {
  local OPTIONS ``OPTIONS``SPACE``OPTNAME''''
  local SPACE " "
}
- }
- if `""`OPTNAME'''' != "" {
= if `""' != "" {
  local OPTIONS ``OPTIONS``SPACE``OPTNAME''''
  local SPACE " "
}
- }
- if ``options'''' != "" {
= if `""' != "" {
  local OPTIONS ``OPTIONS``SPACE``options''''
}
- .name = ``NAME''''
= .name = `y_timing_max''
- .depvars = ``DEPVARs''''
= .depvars = `y_timing_max''
- .hasequal = `hasequal'
= .hasequal = 1
- .indepvars = ``:list retok INDEPVARs''''
= .indepvars = `rule_g rule_itr estimated 0b.cb_authors_ext#0b.
> vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_auth
> ors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_l
> ate 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_autho
> rs_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vi
> nt_early 1o.cb_authors_ext#1o.vint_early''
- .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.pa
> rse _____
    - }
    - local MARKOPTLIST ```.mark_opts.dumpoptions'''
    _____
> _____ begin _optlist.dumpopti
> ons _____
    - 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.dumpopti
> ons _____
    = local MARKOPTLIST `'''
    - local MARKOPTNAMES ```.mark_opts.dumpnames'''
    _____
> _____ begin _optlist.dumpna
> mes _____
    - 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.dumpna
> mes _____
    = local MARKOPTNAMES `'''
    - local OPTLIST1 : substr local MARKOPTLIST "(passthru)" "(strin
> g asis)", all
    - local SMARKOPTLIST ```.smark_opts.dumpoptions'''
    _____
> _____ begin _optlist.dumpopti
> ons _____

```

```

- 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.dumpopti
> ons _____
    = local SMARKOPTLIST `'''
    - local SMARKOPTNAMES ```.smark_opts.dumpnames'''

> _____ begin _optlist.dumpna
> mes _____
    - 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.dumpna
> mes _____
    = local SMARKOPTNAMES `'''
    - local OPTLIST1s : substr local SMARKOPTLIST "(passthru)" "(str
> ing asis)", all
    - local RMCOLLOPTLIST ```.rmcoll_opts.dumpoptions'''

> _____ begin _optlist.dumpopti
> ons _____
    - 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.dumpopti
> ons _____
        = local RMCOLLOPTLIST `'''
        - local RMCOLLOPTNAMES ```.rmcoll_opts.dumpnames'''
    _____
> _____ begin _optlist.dumpna
> mes _____
        - 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.dumpna
> mes _____
        = local RMCOLLOPTNAMES `'''
        - local OPTLIST2 : substr local RMCOLLOPTLIST "(passthru)" "(str
> ing asis)", all
        - local RMDCOLLOPTLIST ```.rmdcoll_opts.dumpoptions'''
    _____
> _____ begin _optlist.dumpopti
> ons _____
        - 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.dumpopti
> ons _____
        = local RMDCOLLOPTLIST `'''
        - local RMDCOLLOPTNAMES ```.rmdcoll_opts.dumpnames'''
    _____

```

```

> ----- begin _optlist.dumpna
> mes -----
    - 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.dumpna
> mes -----
    = 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 = 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.pa

> rse _____

```

- 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 `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.i
> tem _____
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, indepvars
}

> _____ begin _eqspec._check_eq_item_n
> ame _____
- 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_n
> ame _____
        - local value ```.item'''
        = local value ``rule_g rule_itr estimated 0b.cb_authors_ext#0b
> .vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_auth
> hors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_
> late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_auth
> ors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.v
> int_early 1o.cb_authors_ext#1o.vint_early'''
        - sreturn local value ``value'''
        = sreturn local value ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid
> s_ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid
> 1.cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext
> #1.vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b
> .cb_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_
> ext#0b.vint_early 1o.cb_authors_ext#1o.vint_early'''
        - class exit ``value'''
        = class exit ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.
> vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_auth
> ors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_l
> ate 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_autho
> rs_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vi
> nt_early 1o.cb_authors_ext#1o.vint_early'''
    }
}

> _____ end _eqspec.i
> tem _____
        - class exit ``s(value)'''
        = class exit ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.vi
> nt_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors
> s_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late
> e 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors
> _ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint
> _early 1o.cb_authors_ext#1o.vint_early'''
    }
}

> _____ end _eqlist
> .eq _____

```



```

= local xvarsi `rule_g rule_itr estimated 0b.cb_authors_ext#0b.vi
> nt_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_author
> s_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_lat
> e 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors
> _ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint
> _early 1o.cb_authors_ext#1o.vint_early"
    - 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.i
> tem _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
= .check_eq_item_name item, nocons
    _____
> _____ begin _eqspec._check_eq_item_n
> ame _____
    - 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_n
> ame _____
        - local value ```.`item'"""
        = local value ``0"""
        - sreturn local value ```.`value'"""
        = sreturn local value ``0"""
        - class exit ```.`value'"""
        = class exit ``0"""
    _____

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

> _____ end _eqlist
> .eq _____
        = local noconsi ``0"""
        - local dim = `dim' + `:list sizeof xvarsi'
        = local dim = + 15
        - if ``noconsi' == "0" {
        = if "0" == "0" {
        - local ++dim
        - }
        - }
        - sreturn local value ```.dim'"""
        = sreturn local value ``16"""
        - class exit ```.s(value)"""
        = class exit ``16"""
    _____

> _____ end _eqlist.
> dim _____
        = global ML_dim = 16
        - 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.i
> tem _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, depvars
    }
}

> _____ begin _eqspec._check_eq_item_n
> ame _____
    - 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_n
> ame _____
    - local value ``.`item''''
    = local value ``y_timing_max'''
    - sreturn local value ``value'''
    = sreturn local value ``y_timing_max'''
    - class exit ``value'''
    = class exit ``y_timing_max'''
    }
}

> _____ end _eqspec.i
> tem _____
    - class exit ``s(value)'''

```

```

        = class exit `"y_timing_max"'
    _____
> _____ end _eqlist
> .eq _____
    = local depvars y_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.i
> tem _____
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, name
    _____
> _____ begin _eqspec._check_eq_item_n
> ame _____
    - 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_n
> ame _____
    - local value ```.`item'"""
    = local value `"y_timing_max"
    - sreturn local value ```.`value'"""
    = sreturn local value `"y_timing_max"
    - class exit ```.`value'"""
    = class exit `"y_timing_max"
    _____
> _____ end _eqspec.i
> tem _____
    - class exit ```.s(value)"""
    = class exit `"y_timing_max"
    _____
> _____ end _eqlist
> .eq _____
    = local eq y_timing_max
    - if !`:length local eq' {
    = if !12 {
        local eq eq`i'
    }
    - if `:list eq in eqnames' {
    = if 0 {
        di as err "equation ``eq'' multiply defined"
        exit 110
    }
    - local eqnames `eqnames' `eq'
    = local eqnames y_timing_max
    - fvexpand `.`eqlist'.eq indepvars `i' if $ML_samp
    _____
> _____ begin _eqlist
> .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.i
> tem _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, indepvars
    _____

> _____ begin _eqspec._check_eq_item_n
> ame _____
    - 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_n
> ame _____
    - local value ```.`item'```
    = local value ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.v
> int_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_autho
> rs_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_la
> te 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_autho
> s_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vin
> t_early 1o.cb_authors_ext#1o.vint_early```
    - sreturn local value ```.value```
    = sreturn local value ``rule_g rule_itr estimated 0b.cb_authors_
> ext#0b.vint_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.
> cb_authors_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1
> .vint_late 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.c
> b_authors_ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ex
> t#0b.vint_early 1o.cb_authors_ext#1o.vint_early```
    - class exit ```.value```
    = class exit ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.vi
> nt_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_autho

```

```

> s_ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late
> e 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors
> _ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint
> _early 1o.cb_authors_ext#1o.vint_early"

_____ end _eqspec.i

> tem _____
      - class exit ``s(value)'''
      = class exit ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint
> _mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_
> ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late
> 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_e
> xt#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_e
> arly 1o.cb_authors_ext#1o.vint_early"

_____ end _eqlist

> .eq _____
      = fvexpand rule_g rule_itr estimated 0b.cb_authors_ext#0b.vint_mid 0
> b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors_ext#1.
> vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late 1.cb_a
> uthors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_ext#0b.
> vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_early 1
> o.cb_authors_ext#1o.vint_early if __000005
      - if ``r(tsops)'' == "true" {
      = if "" == "true" {
        global ML_preserve no
      }
      - local eq_rhs`i' ``r(varlist)'''
      = local eq_rhs1 ``rule_g rule_itr estimated 0b.cb_authors_ext#0b.vin
> t_mid 0b.cb_authors_ext#1.vint_mid 1.cb_authors_ext#0b.vint_mid 1.cb_authors
> _ext#1.vint_mid 0b.cb_authors_ext#0b.vint_late 0b.cb_authors_ext#1.vint_late
> 1.cb_authors_ext#0b.vint_late 1o.cb_authors_ext#1o.vint_late 0b.cb_authors_
> ext#0b.vint_early 0b.cb_authors_ext#1o.vint_early 1o.cb_authors_ext#0b.vint_
> early 1o.cb_authors_ext#1o.vint_early"
      - 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.i
> tem _____
- version 9.2
- args item
- .check_eq_item_name item, `item'
= .check_eq_item_name item, nocons
}

> _____ begin _eqspec._check_eq_item_n
> ame _____
- 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_n
> ame _____
- local value ```.item'''
= local value `0'
- sreturn local value ``value'''
= sreturn local value `0'
- class exit ``value'''
= class exit `0'
}

> _____ end _eqspec.i
> tem _____
- 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.i
> tem
    - version 9.2
    - args item
    - .check_eq_item_name item, `item'
    = .check_eq_item_name item, offset

> _____ begin _eqspec._check_eq_item_n
> ame
    - 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_n

```

```

> ame -----
      - local value ```.`item'"""
      = local value `"""
      - sreturn local value ```.value'"""
      = sreturn local value `"""
      - class exit ```.value'"""
      = class exit `"""
-----

> ----- end _eqspec.i
> tem -----
      - 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.i
> tem -----
      - version 9.2
      - args item
      - .check_eq_item_name item, `item'
      = .check_eq_item_name item, exposure
-----

> ----- begin _eqspec._check_eq_item_n
> ame -----
      - 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_n
> ame _____
        - local value ```.`item'```
        = local value ``0```
        - sreturn local value ```.value```
        = sreturn local value ``0```
        - class exit ```.value```
        = class exit ``0```
    }
}
> _____ end _eqspec.i
> tem _____
        - 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.i
> tem _____
    - version 9.2
    - args item
    - ._check_eq_item_name item, `item'
    = ._check_eq_item_name item, freeparm
    _____

> _____ begin _eqspec._check_eq_item_n
> ame _____
    - 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_n
> ame _____
    - local value ```.`item'```
    = local value ``0```
    - sreturn local value ```value```
    = sreturn local value ``0```
    - class exit ```value```
    = class exit ``0```
    _____

> _____ end _eqspec.i
> tem _____
    - class exit ```s(value)```
    = class exit ``0```
    _____

> _____ end _eqlist
> .eq _____
    = local eq_freeparm1 0
    - local lhs `lhs' `depvars'
    = local lhs y_timing_max

```

```

- local eq_names `eq_names' `eq'
= local eq_names y_timing_max
- local nxvars :list sizeof eq_rhs`i'
= local nxvars :list sizeof eq_rhs1
- local TMP : copy local eq_rhs`i'
= local TMP : copy local eq_rhs1
- forval j = 1/`nxvars' {
= forval j = 1/15 {
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid'''
- }
- gettoken xvar TMP : TMP

```

```

- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late y_timing_max:1o.cb_authors_ext#1o.vint_late'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_autho
> rs_ext#0b.vint_early'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_

```

```

> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_autho
> rs_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_autho
> rs_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early y_timing_m
> ax:1o.cb_authors_ext#0b.vint_early'''
- }
- gettoken xvar TMP : TMP
- local colna ``colna' `eq':`xvar'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_
> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_autho
> rs_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early y_timing_m
> ax:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_ext#1o.vint_ea
> rly'''
- }
- if `eq_freeparm`i' {
= if 0 {
  if `nxvars' {
    di as err "{it:xvars} not allowed with option {bf:freeparm}"
    exit 198
  }
  if strpos(`"eq"', ":") {
    local colna ``colna' /`eq'''
  }
  else {
    local colna ``colna' /:`eq'''
  }
}
- else if !`eq_nocons`i' {
= else if !0 {
- local colna ``colna' `eq':_cons'''
= local colna `` y_timing_max:rule_g y_timing_max:rule_itr y_timing_

```

```

> max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_
> authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_ma
> x:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_
> timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vi
> nt_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_autho
> rs_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early y_timing_m
> ax:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_ext#1o.vint_ea
> rly y_timing_max:_cons''
- }
- if ``moptobj'' != '' {
= if '' != '' {
  if ``eq_offset`i'' != '' {
    if substr(`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 substr(`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 __000007 = J(1,16,0)
- matrix colna `b0' = `colna'
= matrix colna __000007 = y_timing_max:rule_g y_timing_max:rule_itr
> y_timing_max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_
> max:0b.cb_authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y
> _timing_max:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vi
> nt_late y_timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors
> _ext#0b.vint_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0
> b.cb_authors_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early
> y_timing_max:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_ext#
> 1o.vint_early y_timing_max:_cons
- `vv' _mkvec `b0', from(`init') update first error("initial vector"
> )
= version 18.5: _mkvec __000007, from(__000004) update first error("
> initial vector")
> _____ begin _mk
> vec _____
- local vv : display "version " string(_caller()) ":"
- version 6
- gettoken matout0 : 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 `__000004'!='' {
- From `from'
= From __000004

_____  

> _____ begin _mkvec.F
> rom _____
- gettoken from 0 : 0, parse(",") bind
- sret clear
- sret local from `from'
= sret local from __000004
- if ``0'!='' {
= if `''!='' {
  syntax [, COPY SKIP ]
}
- sret local copy `copy'
= sret local copy
- sret local skip `skip'
= sret local skip

_____  

> _____ end _mkvec.F
> rom _____
- 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 18.5: BuildMat __000008 ``initial vector: '' __000004
}

> _____ begin _mkvec.Build
> Mat _____
  - local vv : display "version " string(_caller()) ":"
  - version 6
  - args matall error skip
  - macro shift 3
  - tokenize ``*'', parse(" =")
  = tokenize ``__000004'', parse(" =")
  - tempname matadd
  - local i 1
  - while ``i'!="" {
  = while "__000004"!="" {
    - 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 __000009 __000004 ``initial vector: ''
  }

> _____ begin _mkvec.Chk
> Mat _____
  - args matout matin error
  - capture di matrix(`matin'[1,1])
  = capture di matrix(__000004[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(__000004)!=1 & colsof(__000004)!=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(__000004)) == 1 {
  - mat `matout' = `matin'
= mat __000009 = __000004
  - }
  - else mat `matout' = `matin''
= else mat __000009 = __000004'
}

> _____ end _mkvec.Chk
> Mat _____
- local i = `i' + 1
= local i = 1 + 1
- }
- mat `matall' = nullmat(`matall') , `matadd'
= mat __000008 = nullmat(__000008) , __000009
- }
- 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.Build
> Mat _____
    - if ``colname''!='' {
      = if ``y_timing_max:rule_g y_timing_max:rule_itr y_timing_max:esti
> mated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_authors_
> ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_max:1.cb_a
> uthors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_timing_m
> ax:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vint_late
> y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_authors_ext#0
> b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early y_timing_max:1o.cb
> _authors_ext#0b.vint_early y_timing_max:1o.cb_authors_ext#1o.vint_early y_ti
> ming_max:_cons''!='' {
    - `vv' ChkNames `mat' ``matin'' ``colname'' ``error'' ``skip''
> ``first''
      = version 18.5: ChkNames __000008 ``__000007'' ``y_timing_max:rule_g
> y_timing_max:rule_itr y_timing_max:estimated y_timing_max:0b.cb_authors_ext
> #0b.vint_mid y_timing_max:0b.cb_authors_ext#1.vint_mid y_timing_max:1.cb_aut
> hors_ext#0b.vint_mid y_timing_max:1.cb_authors_ext#1.vint_mid y_timing_max:0
> b.cb_authors_ext#0b.vint_late y_timing_max:0b.cb_authors_ext#1.vint_late y_t
> iming_max:1.cb_authors_ext#0b.vint_late y_timing_max:1o.cb_authors_ext#1o.vi
> nt_late y_timing_max:0b.cb_authors_ext#0b.vint_early y_timing_max:0b.cb_auth
> ors_ext#1o.vint_early y_timing_max:1o.cb_authors_ext#0b.vint_early y_timing_
> max:1o.cb_authors_ext#1o.vint_early y_timing_max:_cons'' ``initial vector: "
> ' "" "first"
    _____
> _____ begin _mkvec.ChkNa
> mes _____
    - local vv : display "version " string(_caller()) ":"
    - version 6
    - args mat matin names error skip first
    - local dim = colsof(matrix(`mat`))
    = local dim = colsof(matrix(__000008))
    - if ``first''!='' {
      = if "first"!='' {
        - gettoken name : names
        - local eq1 = bsubstr(```name'',1,index(```name'',":"))
        = local eq1 = bsubstr(`y_timing_max:rule_g'',1,index(`y_timing
> _max:rule_g'',":"))
        - }
        - tempname new fill x
        - local k : list sizeof names
        - if ``matin''!='' {
          = if "__000007"!='' {
            - mat `new' = `matin'
            = mat __000009 = __000007
            - }

```

```

- else {
  mat `new' = J(1,`k',0)
  `vv' mat colnames `new' = `names'
}
- mat `fill' = J(1,`k',0)
= mat __00000A = J(1,16,0)
- local i 1
- while `i' <= `dim' {
= while 1 <= 16 {
- mat `x' = `mat'[1,`i'..'i']
= mat __00000B = __000008[1,1..1]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
  local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "_:rule_g"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:rule_g"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse rule_g, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,`_:rule_g'')
- if `j' == . & "`oname'" != "" {
= if 1 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 1 == . & "/_:rule_g" != "" {

```

```

        `vv' local j = colnumb(`new',````sspec'')
    }
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 1==. & ``_'""=="_" & ``y_timing_max:'""!="" {
    `vv' local j = colnumb(`new',````eq1'`name'')
    if `j' == . & ``oname'"" != "" {
        `vv' local j = colnumb(`new',````eq1'`oname'')
    }
}
- if `j'!=. {
= if 1!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,1] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,1] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']

```

```

= mat __00000B = __000008[1,2..2]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"
  }
- else {
- local spec "`eq':`name'"
= local spec "._:rule_itr"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "._:rule_itr"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse rule_itr, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)'''
    local ospec "`eq':`oname'"
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:rule_itr'')
- if `j' == . & ``oname'" != "" {
= if 2 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & ``sspec'" != "" {
= if 2 == . & "._:rule_itr" != "" {
    `vv' local j = colnumb(`new',``sspec'')
  }
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 2==. & ``_'""=="_" & ``y_timing_max:'""!="" {
    `vv' local j = colnumb(`new',``eq1``name'')
    if `j' == . & ``oname'" != "" {
      `vv' local j = colnumb(`new',``eq1``oname'')
    }
  }
- if `j'!=. {

```



```

= if 2!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,2] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,2] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,3..3]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
  local spec "/`name'"
}
- else {

```

```

- local spec "`eq':`name'"
= local spec "_:estimated"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:estimated"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse estimated, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,`_:estimated'')
- if `j' == . & ``oname'' != "" {
= if 3 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec'' != "" {
= if 3 == . & "/_:estimated" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq''=="_" & ``eq1''!= "" {
= if 3==. & ``_'=="_" & ``y_timing_max:''!= "" {
  `vv' local j = colnumb(`new',``eq1``name'')
  if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new',``eq1``oname'')
  }
}
- if `j'!=. {
= if 3!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,3] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,3] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,4..4]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:0b.cb_authors_ext#0b.vint_mid"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:0b.cb_authors_ext#0b.vint_mid"
- }
- }
- local oname
- local ospec

```

```

- capture _msparse `name', noomit
= capture _msparse 0b.cb_authors_ext#0b.vint_mid, noomit
- if c(rc) == 0 {
- if r(omit) {
- local oname ``r(stripe)'''
= local oname ``0.cb_authors_ext#0.vint_mid'''
- local ospec ``eq':`oname'''
= local ospec ``_:0.cb_authors_ext#0.vint_mid'''
- }
- }
- `vv' local j = colnumb(`new',``spec''')
= version 18.5: local j = colnumb(__000009,``_:0b.cb_authors_ext
> #0b.vint_mid''')
- if `j' == . & ``oname''' != "" {
= if 4 == . & "0.cb_authors_ext#0.vint_mid" != "" {
`vv' local j = colnumb(`new',``ospec''')
}
- if `j' == . & ``sspec''' != "" {
= if 4 == . & "/_:0b.cb_authors_ext#0b.vint_mid" != "" {
`vv' local j = colnumb(`new',``sspec''')
}
- if `j'==. & ``eq'''=="_" & ``eq1'''!="" {
= if 4==. & ``_'=="_" & ``y_timing_max:'!="" {
`vv' local j = colnumb(`new',``eq1``name''')
if `j' == . & ``oname''' != "" {
`vv' local j = colnumb(`new',``eq1``oname''')
}
}
- if `j'!=. {
= if 4!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,4] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,4] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,5..5]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
  local spec "/`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:0b.cb_authors_ext#1.vint_mid"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:0b.cb_authors_ext#1.vint_mid"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 0b.cb_authors_ext#1.vint_mid, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)'"
  local ospec "`eq':`oname'"
}
}

```

```

- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:0b.cb_authors_ext
> #1.vint_mid'')
- if `j' == . & ``oname' != '' {
= if 5 == . & '' != '' {
  `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & ``sspec' != '' {
= if 5 == . & "/_:0b.cb_authors_ext#1.vint_mid" != '' {
  `vv' local j = colnumb(`new',``sspec'')
  }
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 5==. & ``_'=="_" & ``y_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1`name'')
  if `j' == . & ``oname' != '' {
    `vv' local j = colnumb(`new',``eq1`oname'')
  }
}
- if `j'!=. {
= if 5!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,5] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,5] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,6..6]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_:1.cb_authors_ext#0b.vint_mid"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:1.cb_authors_ext#0b.vint_mid"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 1.cb_authors_ext#0b.vint_mid, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)'"
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,`_:1.cb_authors_ext#
> 0b.vint_mid'')
- if `j' == . & "`oname'" != "" {
= if 6 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "`sspec'" != "" {

```

```

= if 6 == . & "/_ :1.cb_authors_ext#0b.vint_mid" != "" {
  `vv' local j = colnumb(`new',``sspec'``')
}
- if `j'==. & ``eq'``'=="_" & ``eq1'``'!="" {
= if 6==. & ``_'``'=="_" & ``y_timing_max:'``'!="" {
  `vv' local j = colnumb(`new',``eq1'``name'``')
  if `j' == . & ``oname'``' != "" {
    `vv' local j = colnumb(`new',``eq1'``oname'``')
  }
}
- if `j'!=. {
= if 6!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,6] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,6] = __000008[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 <= 16 {

```



```

- mat `x' = `mat'[1,`i'..'i']
= mat __00000B = __000008[1,7..7]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "_:1.cb_authors_ext#1.vint_mid"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:1.cb_authors_ext#1.vint_mid"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 1.cb_authors_ext#1.vint_mid, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:1.cb_authors_ext#
> 1.vint_mid'')
- if `j' == . & "`oname'" != "" {
= if 7 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 7 == . & "/_:1.cb_authors_ext#1.vint_mid" != "" {
    `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 7==. & ``_'=="_" & ``y_timing_max:'!="" {
    `vv' local j = colnumb(`new',``eq1`name'')
    if `j' == . & "`oname'" != "" {
        `vv' local j = colnumb(`new',``eq1`oname'')
    }
}

```

```

    }
- if `j'!=. {
= if 7!=. {
- if `fill'[1,`j'] {
= if __00000A[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 `fill'[1,`j'] = 1
= else mat __00000A[1,7] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,7] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,8..8]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"

```

```

    }
- else {
- local spec "`eq':`name'"
= local spec "_:0b.cb_authors_ext#0b.vint_late"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:0b.cb_authors_ext#0b.vint_late"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 0b.cb_authors_ext#0b.vint_late, noomit
- if c(rc) == 0 {
- if r(omit) {
- local oname ``r(stripe)''
= local oname ``0.cb_authors_ext#0.vint_late"
- local ospec "`eq':`oname'"
= local ospec "_:0.cb_authors_ext#0.vint_late"
- }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:0b.cb_authors_ext
> #0b.vint_late'')
- if `j' == . & ``oname' != "" {
= if 8 == . & "0.cb_authors_ext#0.vint_late" != "" {
`vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec' != "" {
= if 8 == . & "/_:0b.cb_authors_ext#0b.vint_late" != "" {
`vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'=="_" & ``eq1'!='' {
= if 8==. & ``_'=="_" & ``y_timing_max:'!=' {
`vv' local j = colnumb(`new',``eq1`name'')
if `j' == . & ``oname' != "" {
`vv' local j = colnumb(`new',``eq1`oname'')
}
}
- if `j'!=. {
= if 8!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,8] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,8] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,9..9]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
    }
- else {
- local spec "`eq':`name'"
= local spec "_:0b.cb_authors_ext#1.vint_late"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"

```

```

= local sspec "/_:#0b.cb_authors_ext#1.vint_late"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 0b.cb_authors_ext#1.vint_late, noomit
- if c(rc) == 0 {
- if r(omit) {
    local oname ``r(stripe)''
    local ospec ``eq':`name''
  }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:#0b.cb_authors_ext
> #1.vint_late'')
- if `j' == . & ``oname'' != "" {
= if 9 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec'' != "" {
= if 9 == . & "/_:#0b.cb_authors_ext#1.vint_late" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 9==. & ``_''=="_" & ``y_timing_max:''!="" {
  `vv' local j = colnumb(`new',``eq1``name'')
  if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new',``eq1``oname'')
  }
}
- if `j'!=. {
= if 9!=. {
- if `fill'[1,`j'] {
= if __00000A[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'
> found''
  }
  exit 507
}
else if !missing(`new'[1,`j']) {
matrix `mat'[1,`i'] = `new'[1,`j']

```

```

    }
    }
- else mat `fill'[1,`j'] = 1
= else mat __00000A[1,9] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,9] = __000008[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 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,10..10]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'
}
- else {
- local spec "`eq':`name'"
= local spec "_:1.cb_authors_ext#0b.vint_late"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:1.cb_authors_ext#0b.vint_late"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 1.cb_authors_ext#0b.vint_late, noomit
- if c(rc) == 0 {
- if r(omit) {

```

```

        local oname ``r(stripe)''
        local ospec ``eq':`oname''
    }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:1.cb_authors_ext#
> 0b.vint_late'')
- if `j' == . & ``oname'' != "" {
= if 10 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
    }
- if `j' == . & ``sspec'' != "" {
= if 10 == . & "/_:1.cb_authors_ext#0b.vint_late" != "" {
    `vv' local j = colnumb(`new',``sspec'')
    }
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 10==. & ``_'=="_" & ``y_timing_max:''!="" {
    `vv' local j = colnumb(`new',``eq1``name'')
    if `j' == . & ``oname'' != "" {
        `vv' local j = colnumb(`new',``eq1``oname'')
    }
    }
- if `j'!=. {
= if 10!=. {
- if `fill'[1,`j'] {
= if __00000A[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 __00000A[1,10] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,10] = __000008[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 <= 16 {
    - mat `x' = `mat'[1,`i'..`i']
    = mat __00000B = __000008[1,11..11]
    - local eq : coleq `x'
    = local eq : coleq __00000B
    - local name : colname `x'
    = local name : colname __00000B
    - if "`eq'" == "/" {
    = if "_" == "/" {
        local spec "/"`name'"
    }
    - else {
    - local spec "`eq':`name'"
    = local spec "_:10.cb_authors_ext#10.vint_late"
    - if (usubstr("`eq'",1,1) != "/") {
    = if (usubstr("_",1,1) != "/") {
    - local sspec "/"`eq':`name'"
    = local sspec "/_:10.cb_authors_ext#10.vint_late"
    - }
    - }
    - local oname
    - local ospec
    - capture _msparse `name', noomit
    = capture _msparse 10.cb_authors_ext#10.vint_late, noomit
    - if c(rc) == 0 {
    - if r(omit) {
    - local oname ``"r(stripe)'"
    = local oname ``"1.cb_authors_ext#1.vint_late"'
    - local ospec "`eq':`oname'"
    = local ospec "_:1.cb_authors_ext#1.vint_late"
    - }
    - }
    - `vv' local j = colnumb(`new',`"'spec'')
    = version 18.5: local j = colnumb(__000009,`"_:10.cb_authors_ext
> #10.vint_late"')

```



```

- if `j' == . & "`oname'" != "" {
= if 11 == . & "1.cb_authors_ext#1.vint_late" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & "`sspec'" != "" {
= if 11 == . & "/_:10.cb_authors_ext#10.vint_late" != "" {
  `vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'""=="_" & ``eq1'""!="" {
= if 11==. & ``_'""=="_" & ``y_timing_max:'""!="" {
  `vv' local j = colnumb(`new',``eq1'`name'')
  if `j' == . & "`oname'" != "" {
    `vv' local j = colnumb(`new',``eq1'`oname'')
  }
}
- if `j'!=. {
= if 11!=. {
- if `fill'[1,`j'] {
= if __00000A[1,11] {
  _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 __00000A[1,11] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,11] = __000008[1,11]
- }
- 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 = 11 + 1
- }
- while `i' <= `dim' {
= while 12 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,12..12]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
    }
- else {
- local spec "`eq':`name'"
= local spec "_:0b.cb_authors_ext#0b.vint_early"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:0b.cb_authors_ext#0b.vint_early"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 0b.cb_authors_ext#0b.vint_early, noomit
- if c(rc) == 0 {
- if r(omit) {
- local oname ``r(stripe)'"
= local oname ``0.cb_authors_ext#0.vint_early'"
- local ospec "`eq':`oname'"
= local ospec "_:0.cb_authors_ext#0.vint_early"
- }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:0b.cb_authors_ext
> #0b.vint_early'')
- if `j' == . & "`oname'" != "" {
= if 12 == . & "0.cb_authors_ext#0.vint_early" != "" {
    `vv' local j = colnumb(`new',``ospec'')
    }
- if `j' == . & "`sspec'" != "" {
= if 12 == . & "/_:0b.cb_authors_ext#0b.vint_early" != "" {
    `vv' local j = colnumb(`new',``sspec'')

```

```

    }
- if `j'==. & ``eq'=="_" & ``eq1'!="" {
= if 12==. & ``_'=="_" & ``y_timing_max:'!="" {
  `vv' local j = colnumb(`new',``eq1'`name'`)
  if `j' == . & ``oname' != "" {
    `vv' local j = colnumb(`new',``eq1'`oname'`)
  }
}
- if `j'!=. {
= if 12!=. {
- if `fill'[1,`j'] {
= if __00000A[1,12] {
  _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 __00000A[1,12] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,12] = __000008[1,12]
- }
- 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 = 12 + 1
- }
- while `i' <= `dim' {
= while 13 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,13..13]

```

```

- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
  }
- else {
- local spec "`eq':`name'"
= local spec "_:0b.cb_authors_ext#1o.vint_early"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:0b.cb_authors_ext#1o.vint_early"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 0b.cb_authors_ext#1o.vint_early, noomit
- if c(rc) == 0 {
- if r(omit) {
- local oname ``r(stripe)''
= local oname ``0.cb_authors_ext#1.vint_early''
- local ospec ``eq':`oname'"
= local ospec "_:0.cb_authors_ext#1.vint_early"
- }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:0b.cb_authors_ext
> #1o.vint_early'')
- if `j' == . & ``oname' != "" {
= if 13 == . & "0.cb_authors_ext#1.vint_early" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & ``sspec' != "" {
= if 13 == . & "/_:0b.cb_authors_ext#1o.vint_early" != "" {
    `vv' local j = colnumb(`new',``sspec'')
  }
- if `j'==. & ``eq'=="_" & ``eq1'!='' {
= if 13==. & ``_'=="_" & ``y_timing_max:'!='' {
    `vv' local j = colnumb(`new',``eq1``name'')
    if `j' == . & ``oname' != "" {
      `vv' local j = colnumb(`new',``eq1``oname'')
    }
  }
}

```

```

    }
- if `j'!=. {
= if 13!=. {
- if `fill'[1,`j'] {
= if __00000A[1,13] {
    _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 __00000A[1,13] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,13] = __000008[1,13]
- }
- 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 = 13 + 1
- }
- while `i' <= `dim' {
= while 14 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,14..14]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/`name'"

```

```

    }
- else {
- local spec "`eq':`name'"
= local spec "_:10.cb_authors_ext#0b.vint_early"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/`eq':`name'"
= local sspec "/_:10.cb_authors_ext#0b.vint_early"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 10.cb_authors_ext#0b.vint_early, noomit
- if c(rc) == 0 {
- if r(omit) {
- local oname ``r(stripe)'"
= local oname ``1.cb_authors_ext#0.vint_early'"
- local ospec "`eq':`oname'"
= local ospec "_:1.cb_authors_ext#0.vint_early"
- }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:10.cb_authors_ext
> #0b.vint_early'')
- if `j' == . & ``oname'" != "" {
= if 14 == . & "1.cb_authors_ext#0.vint_early" != "" {
`vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec'" != "" {
= if 14 == . & "/_:10.cb_authors_ext#0b.vint_early" != "" {
`vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq'"=="_" & ``eq1'"!="" {
= if 14==. & ``_"=="_" & ``y_timing_max:'"!="" {
`vv' local j = colnumb(`new',``eq1``name'')
if `j' == . & ``oname'" != "" {
`vv' local j = colnumb(`new',``eq1``oname'')
}
}
- if `j'!=. {
= if 14!=. {
- if `filll'[1,`j'] {
= if __00000A[1,14] {
_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 __00000A[1,14] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,14] = __000008[1,14]
- }

- 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 = 14 + 1
- }

- while `i' <= `dim' {
= while 15 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,15..15]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- if "`eq'" == "/" {
= if "_" == "/" {
    local spec "/"`name'"
}
- else {
- local spec "`eq':`name'"
= local spec "_.10.cb_authors_ext#10.vint_early"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"

```

```

= local sspec "/_:10.cb_authors_ext#10.vint_early"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse 10.cb_authors_ext#10.vint_early, noomit
- if c(rc) == 0 {
- if r(omit) {
- local oname ``r(stripe)''
= local oname ``1.cb_authors_ext#1.vint_early''
- local ospec ``eq':`name''
= local ospec "_:1.cb_authors_ext#1.vint_early"
- }
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,``_:10.cb_authors_ext
> #10.vint_early'')
- if `j' == . & ``oname'' != "" {
= if 15 == . & "1.cb_authors_ext#1.vint_early" != "" {
`vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``sspec'' != "" {
= if 15 == . & "/_:10.cb_authors_ext#10.vint_early" != "" {
`vv' local j = colnumb(`new',``sspec'')
}
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 15==. & ``_'=="_" & ``y_timing_max:''!="" {
`vv' local j = colnumb(`new',``eq1`name'')
if `j' == . & ``oname'' != "" {
`vv' local j = colnumb(`new',``eq1`oname'')
}
}
- if `j'!=. {
= if 15!=. {
- if `fill'[1,`j'] {
= if __00000A[1,15] {
_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 __00000A[1,15] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,15] = __000008[1,15]
- }
- 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 = 15 + 1
- }
- while `i' <= `dim' {
= while 16 <= 16 {
- mat `x' = `mat'[1,`i'..`i']
= mat __00000B = __000008[1,16..16]
- local eq : coleq `x'
= local eq : coleq __00000B
- local name : colname `x'
= local name : colname __00000B
- 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 18.5: local j = colnumb(__000009,``_:_cons'')
- if `j' == . & ``oname'' != "" {
= if 16 == . & "" != "" {
  `vv' local j = colnumb(`new',``ospec'')
}
- if `j' == . & ``spec'' != "" {
= if 16 == . & "/_:_cons" != "" {
  `vv' local j = colnumb(`new',``spec'')
}
- if `j'==. & ``eq''=="_" & ``eq1''!="" {
= if 16==. & ``_'=="_" & ``y_timing_max:''!="" {
  `vv' local j = colnumb(`new',``eq1``name'')
  if `j' == . & ``oname'' != "" {
    `vv' local j = colnumb(`new',``eq1``oname'')
  }
}
- if `j'!=. {
= if 16!=. {
- if `fill'[1,`j'] {
= if __00000A[1,16] {
  _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 __00000A[1,16] = 1
- mat `new'[1,`j'] = `mat'[1,`i']
= mat __000009[1,16] = __000008[1,16]
- }
- 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 = 16 + 1
- }
- while `i' <= `dim' {
= while 17 <= 16 {
  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"'

    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 "spe
> cify skip option if necessary"
    exit 111
    }
    local i = `i' + 1
    }
    - mat `fill' = `fill'*`fill''
    = mat __00000A = __00000A*__00000A'
    - sret clear
    - sret local k_fill = `fill'[1,1]
    = sret local k_fill = __00000A[1,1]
    - mat `mat' = `new'
    = mat __000008 = __000009

_____  

> _____ end _mkvec.ChkNa
> mes _____
    - local fill `s(k_fill)'
    = local fill 16
    - }
    - }
    - }
    - 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(__000008))
- if "`fill'"!="" {
= if "16"!="" {
- sret local k_fill `fill'
= sret local k_fill 16
- }
- 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 _mk
> vec _____
- }
- tempname bomit
- matrix `bomit' = J(1,`:list sizeof colna',0)
= matrix __000008 = J(1,16,0)
- matrix colna `bomit' = `colna'
= matrix colna __000008 = y_timing_max:rule_g y_timing_max:rule_itr
> y_timing_max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_
> max:0b.cb_authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y
> _timing_max:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vi
> nt_late y_timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors
> _ext#0b.vint_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0
> b.cb_authors_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early
> y_timing_max:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_ext#
> 1o.vint_early y_timing_max:_cons

```

```

- _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'
= _b_post0 y_timing_max:rule_g y_timing_max:rule_itr y_timing_max:e
> stimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_timing_max:0b.cb_autho
> rs_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_mid y_timing_max:1.c
> b_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0b.vint_late y_timin
> g_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_authors_ext#0b.vint_la
> te y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_max:0b.cb_authors_ex
> t#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_early y_timing_max:1o
> .cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_ext#1o.vint_early y
> _timing_max:_cons

> _____ begin _b_po
> st0 _____
- version 11
- tempname b V
- local dim : list sizeof 0
- matrix `b' = J( 1,`dim',0)
= matrix __000009 = J( 1,16,0)
- matrix `V' = J(`dim',`dim',0)
= matrix __00000A = J(16,16,0)
- matrix colnames `b' = `0'
= matrix colnames __000009 = y_timing_max:rule_g y_timing_max:rule
> _itr y_timing_max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_tim
> ing_max:0b.cb_authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_m
> id y_timing_max:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0
> b.vint_late y_timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_aut
> hors_ext#0b.vint_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_m
> ax:0b.cb_authors_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_ea
> rly y_timing_max:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_
> ext#1o.vint_early y_timing_max:_cons
- matrix colnames `V' = `0'
= matrix colnames __00000A = y_timing_max:rule_g y_timing_max:rule
> _itr y_timing_max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_tim
> ing_max:0b.cb_authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_m
> id y_timing_max:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0
> b.vint_late y_timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_aut
> hors_ext#0b.vint_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_m
> ax:0b.cb_authors_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_ea
> rly y_timing_max:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_
> ext#1o.vint_early y_timing_max:_cons

```

```

        - matrix rownames `V' = `0'
        = matrix rownames __00000A = y_timing_max:rule_g y_timing_max:rule
> _itr y_timing_max:estimated y_timing_max:0b.cb_authors_ext#0b.vint_mid y_tim
> ing_max:0b.cb_authors_ext#1.vint_mid y_timing_max:1.cb_authors_ext#0b.vint_m
> id y_timing_max:1.cb_authors_ext#1.vint_mid y_timing_max:0b.cb_authors_ext#0
> b.vint_late y_timing_max:0b.cb_authors_ext#1.vint_late y_timing_max:1.cb_aut
> hors_ext#0b.vint_late y_timing_max:1o.cb_authors_ext#1o.vint_late y_timing_m
> ax:0b.cb_authors_ext#0b.vint_early y_timing_max:0b.cb_authors_ext#1o.vint_ea
> rly y_timing_max:1o.cb_authors_ext#0b.vint_early y_timing_max:1o.cb_authors_
> ext#1o.vint_early y_timing_max:_cons
        - ereturn post `b' `V'
        = ereturn post __000009 __00000A


---


> _____ end _b_po
> st0 _____
        - local clist : substr local constraints "," " ", all
        - `vv' makecns `clist', `cnsnotes'
        = version 18.5: makecns ,


---


> _____ begin make
> cns _____
        - if _caller() < 11 {
            MakeCns `0'
            exit
        }
        - _makecns `0'
        = _makecns ,


---


> _____ end make
> cns _____
        - local constraints ``r(clist)'''
        = local constraints `'''
        - local k_autoCns = e(k_autoCns)
        - tempname C
        - capture matrix `C' = e(Cns)
        = capture matrix __000009 = e(Cns)
        - local rcc = c(rc)
        - }
        - local rc = c(rc)
        - ereturn clear
        - }
        - if (`rc') exit `rc'
        = if (0) exit 0
        - if (`rcc') {
        = if (0) {
            local C

```

```

        local k_autoCns
    }
- }
- if `:length local constraints' {
= if 0 {
    local lf0
    }
- local vce `vce' `robust' `cluster'
= local vce vce(robust)
- if `:length local vce' {
= if 11 {
- _vce_parse, argoptlist(Cluster) optlist(OIM OPG Robust) old : `wt'
> , `vce'
    = _vce_parse, argoptlist(Cluster) optlist(OIM OPG Robust) old : , vc
> e(robust)
    _____
> _____ begin _vce_pa
> rse _____
    - version 10
    - _on_colon_parse `0'
    = _on_colon_parse , argoptlist(Cluster) optlist(OIM OPG Robust) ol
> d : , vce(robust)
    _____
> _____ begin _on_colon_pa
> rse _____
    - 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)' != "" {
    - 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)''' != "" {
        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(CList) optlist(OIM OPG R
> obust) old ""
    - sreturn local after ``after'''
= sreturn local after `", vce(robust)'''



---


> _____ end _on_colon_pa
> rse _____
    - local 0 ``s(before)'''
= local 0 `", argoptlist(CList) optlist(OIM OPG Robust) old ""
    - local user ``s(after)'''
= local user `", vce(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
= .__00000A = ._optlist.new
    - local optlist : list uniq optlist

```

```

- foreach name of local optlist {
-   .`o'.addopt `name'
=   .__00000A.addopt OIM
}

> _____ begin _optlist.add
> opt _____
- 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.add
> opt _____
- }
- .`o'.addopt `name'
= .__00000A.addopt OPG
}

> _____ begin _optlist.add
> opt _____
- 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.add
> opt _____
- }
- .`o'.addopt `name'
= .__00000A.addopt Robust
}

```

```

> _____ begin _optlist.add
> opt _____
    - 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.add
> opt _____
    - }
    - .`a' = ._optlist.new
    = .__00000B = ._optlist.new
    - local argoptlist : list uniq argoptlist
    - foreach name of local argoptlist {
    - .`a'.addopt `name'
    = .__00000B.addopt CLuster
    _____
> _____ begin _optlist.add
> opt _____
    - 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.add
> opt _____
    - }
    - local OPTNAMES ```.`o'.dumpnames'''
    _____
> _____ begin _optlist.dumpna

```

```

> mes -----
    - 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.dumpna
> mes -----
    = local OPTNAMES `"oim opg robust"'
    - local ARGOPTNAMES ```.`a'.dumpnames'''
-----

> ----- begin _optlist.dumpna
> mes -----
    - 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.dumpna
> mes -----
    = local ARGOPTNAMES `"cluster"'
    - local AND : list OPTNAMES & ARGOPTNAMES
    - if `:list sizeof AND' {
    = if 0 {
    di as err "vctype ``: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)""
    - 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 __00000A __00000B , robust
    }

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

> _____ begin _optlist.dumpopti
> ons _____
    - 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.dumpopti
> ons _____

> _____ begin _optlist.dumpopti
> ons _____

- 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.dumpopti
> ons _____

= local OPTSPECS ``OIM OPG Robust CLuster'''
- local OPTNAMES ```.`0'.dumpnames' `.`A'.dumpnames'''

> _____ begin _optlist.dumpna
> mes _____

- 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.dumpna
> mes _____

> _____ begin _optlist.dumpna
> mes _____
- 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.dumpna
> mes _____
= 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.Parse
> VCE _____
    - 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 `""' != "" & !inlist("robust", "", "robust", "eim", "oim", "cluste
> r") {
        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_pa
> rse _____
- 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 -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 __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 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 -420.2971615663282
- global ML_ll_0 : word 2 of `lf0'
= global ML_ll_0 : word 2 of 1 -420.2971615663282
- confirm integer number $ML_k0
= confirm integer number 1
- confirm number $ML_ll_0
= confirm number -420.2971615663282
- 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 __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.ParseUse
> min -----
    - 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 (``min1'' != "") {
    = else if (``'' != "") {
        if (`len' > length(`min1')) {
            di as err "option {bf:min()} requires that either two numbers or
> a 1X2 matrix be specified"
            exit 198
        }
        local deriv 1
    }
    - else {

```

```

- if (`len' > 0) {
= if (0 > 0) {
  if ("`nomin'" == "") {
    di as err "option {bf:min()} requires that either two numbers or
> a 1X2 matrix be specified"
    exit 198
  }
  else if (`len' > length("`nomin'")) {
    di as err "options {bf:min()} and {bf:nomin} are mutually exclus
> ive"
    exit 198
  }
  else {
    local deriv 0
  }
}
- else {
- local deriv 0
- }
- }
- sreturn local deriv `deriv'
= sreturn local deriv 0

```

```

> ----- end mopt.ParseUse
> min -----
  - local deriv = s(deriv)
  - if `:length local gnwmatrix' {
= if 0 {
  confirm matrix `gnwmatrix'
}
  - `vv' mata: Mopt_model()
= version 18.5: mata: Mopt_model()

```

```

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

```

```

        - exit
    }
}
end mopt_check_prog

ram
    - global ML_stat model
    - if !`interactive' {
    = if !0 {
    - `vv' MaxMin `maxmin', nooutput `score' `options' moptobj(`moptobj'
    )
    = version 18.5: MaxMin maximize, nooutput  nolog search(off) moptobj
    ()

    begin mopt.Max
Min
    - local vv : di "version " string(_caller()) ":"
    - version 12
    - ChkMacros

    begin mopt.ChkMac
ros
    - 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.ChkMac
ros
    - syntax name(name=maxmin) [, NEGH TOLerance(numlist max=1 >=0) LT
> OLerance(numlist max=1 >=0) NONRTOLerance NRTOLerance(numlist max=1 >=0) QTO
> 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
> 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_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
  }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- 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, nolog

```

```

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

```

```

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts  nolog
    - local n 0
    - while ``opts'" != "" {
= while ``nolog'" != "" {
    - 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_exclus
> ive -----
    - }
    - else if ``c(iterlog)'" == "on" {
= else if "on" == "on" {

```

```

        local log log
        }
    - else {
        local nolog nolog
        }
    - sreturn local log `log'
    = sreturn local log
    - sreturn local nolog `nolog'
    = sreturn local nolog nolog

```

```

> end _parse_iter
> log
    - local log "`s(nolog)'"
    = local log "nolog"
    - local tropts `log' `dots' `showtolerance' `showstep' `trace' `co
> efdiffs'
    = local tropts nolog
    - if "`tropts'" != "nolog" {
    = if "nolog" != "nolog" {
        local tropts `tropts' `gradient' `hessian'
        if "`skipline'" == "" {
            if "`iterate'" != "0" | `:length local tropts' {
                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 18.5: mata: Mopt_maxmin()

> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __00000P = __00000J
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000K==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
    = qui replace __00000N = y_timing_max - exp(__00000P) if __00000
> 5
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000K __00000L = __00000N
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000K==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __00000K __00000M = exp(__00000P)

> _____ end poiss
> _lf _____

> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __00000P = __00000J
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)

```

```

- if `todo' == 0 | `lnf'==. {
= if 0 == 0 | __00000K==. {
- exit
}
}

> _____ end poiss
> _lf _____

> _____ begin poiss
> _lf _____
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000P = __00000J
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 0 == 0 | __00000K==. {
- exit
}
}

> _____ end poiss
> _lf _____

> _____ begin poiss
> _lf _____
- version 6
- args todo b lnf g H score
- tempvar xb
- mlevel `xb' = `b'
= mlevel __00000P = __00000J
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000K==. {
exit
}
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __00000N = y_timing_max - exp(__00000P) if __00000
> 5
- $ML_ec mlvecsum `lnf' `g' = `score'
= * mlvecsum __00000K __00000L = __00000N
- if `todo' == 1 | `lnf'==. {
= if 2 == 1 | __00000K==. {
exit
}
}

```

```

    }
    - mlfmatsum `lnf' `H' = exp(`xb')
    = mlfmatsum __00000K __00000M = exp(__00000P)
    _____
> _____ end poiss
> _lf _____
    _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __00000P = __00000J
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000K==. {
    - exit
    _____
> _____ end poiss
> _lf _____
    _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __00000P = __00000J
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000K==. {
    - exit
    _____
> _____ end poiss
> _lf _____
    _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb

```

```

- mlevel `xb' = `b'
= mlevel __00000P = __00000J
- mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
= mlsun __00000K = -exp(__00000P) + __00000P*y_timing_max - lnga
> mma(y_timing_max+1)
- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000K==. {
    exit
  }
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __00000N = y_timing_max - exp(__00000P) if __00000
> 5
- $ML_ec mlvecsum `lnf' `g' = `score'
= * mlvecsum __00000K __00000L = __00000N
- if `todo' == 1 | `lnf'==. {
= if 2 == 1 | __00000K==. {
    exit
  }
- mlmatsum `lnf' `H' = exp(`xb')
= mlmatsum __00000K __00000M = exp(__00000P)

> _____ end poiss
> _lf _____
> _____ begin mopt_p
> ost _____
- 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 __00000P __00000Q __00000R [], esample(__00000S)
> depname(y_timing_max) buildfvinfo

> _____ end mopt_p
> ost _____
- 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 = -420.2971615663282

```

```

- 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) - $ML_k0
= else ereturn scalar df_m = e(rank) - 1
- }
- if !`:length global ML_ll_0' | inlist(e(vce), "robust", "cluster
> ", "linearized") {
    = if !18 | inlist(e(vce), "robust", "cluster", "linearized") {
    - if "$ML_svy" == "" {
    = if "" == "" {
    - _prefix_model_test, minimum
    }
}
> ----- begin _prefix_model_t
> est -----
    - 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 __00000S = get(Cns)
- if (c(rc)) local cns
- if "`cns'" != "" {
= if "__00000S" != "" {
- local k_autoCns = e(k_autoCns)
- if missing(`k_autoCns') {
= if missing(7) {
    local k_autoCns 0
  }
- if rowsof(`cns') == `k_autoCns' {
= if rowsof(__00000S) == 7 {
- 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 t

> est

```

- 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.WaldT
> est -----
- 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'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", "svytotat", "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.ExpandEx
> pns -----

    - args expns common constant
    - gettoken exp expns : expns
    - while ``exp'" != "" {
= while `"'`[#1]'" != "" {
    - Expand ``exp'" "common'" "constant'"
= Expand `"'`[#1]'" " "



---


> ----- begin test.Exp
> and -----

    - 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.Exp
> and -----
- 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.ExpandEx
> pns -----
- 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 "4" != "" {
- local dropped_`i' `r(dropped_`i')'
= local dropped_1 4
- local ++i
- }
- while "`r(dropped_`i')'" != "" {
= while "8" != "" {
- local dropped_`i' `r(dropped_`i')'
= local dropped_2 8
- local ++i
- }
- while "`r(dropped_`i')'" != "" {
= while "11" != "" {
- local dropped_`i' `r(dropped_`i')'

```

```

= local dropped_3 11
- local ++i
- }
- while "`r(dropped_`i')'" != "" {
= while "12" != "" {
- local dropped_`i' `r(dropped_`i')'
= local dropped_4 12
- local ++i
- }
- while "`r(dropped_`i')'" != "" {
= while "13" != "" {
- local dropped_`i' `r(dropped_`i')'
= local dropped_5 13
- local ++i
- }
- while "`r(dropped_`i')'" != "" {
= while "14" != "" {
- local dropped_`i' `r(dropped_`i')'
= local dropped_6 14
- local ++i
- }
- while "`r(dropped_`i')'" != "" {
= while "15" != "" {
- local dropped_`i' `r(dropped_`i')'
= local dropped_7 15
- local ++i
- }
- 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 "4" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 4 dropped"
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "8" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 8 dropped"
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "11" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 11 dropped"
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "12" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 12 dropped"
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "13" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 13 dropped"
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "14" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 14 dropped"
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "15" != "" {
- di as txt "      Constraint `dropped_`i'' dropped"
= di as txt "      Constraint 15 dropped"
- local ++i
- }

```

```

- 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 __00000W
- }
- else {
  di as txt "          F(" %3.0f `df1' "," %6.0f `df2' ") =" as
> res %8.2f `F'
  di as txt _col(13) "Prob > F =" as res %10.4f `p'
  }
- }
- else {
  local nexp = rowsof(`tm')
  local nc = colsof(`tm')
  if "`testtype'" == "F" {
    local d "F(df,`=df2'')"
    local dip "p > F"
  }
  else {
    local d chi2
    local dip "p > chi2"
  }
  di
  di as txt "{hline 7}{c TT}{hline 30}"
  di as txt "          {c |}{ralign 12:`d'}          df{ralign 11:`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 = __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 "4" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_1 = 4
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "8" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_2 = 8
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "11" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_3 = 11
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "12" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_4 = 12
- local ++i
- }

```

```

- while "`dropped_`i'" != "" {
= while "13" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_5 = 13
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "14" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_6 = 14
- local ++i
- }
- while "`dropped_`i'" != "" {
= while "15" != "" {
- return scalar dropped_`i' = `dropped_`i''
= return scalar dropped_7 = 15
- local ++i
- }
- 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.WaldT
> est _____
- return add
_____

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

> _____ begin t
> est _____
- 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 t
> est _____

```

```

- }
- ereturn scalar df_m = r(df)
- local drop = r(drop)
- if `drop' {
= if 1 {
- local drop 0
- local i 1
- local idrop ``r(dropped_`i')'''
= local idrop `4'
- while ``idrop' != "" {
= while "4" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,4] {
    local ++drop
  }
- local ++i
- local idrop ``r(dropped_`i')'''
= local idrop `8'
- }
- while ``idrop' != "" {
= while "8" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,8] {
    local ++drop
  }
- local ++i
- local idrop ``r(dropped_`i')'''
= local idrop `11'
- }
- while ``idrop' != "" {
= while "11" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,11] {
    local ++drop
  }
- local ++i
- local idrop ``r(dropped_`i')'''
= local idrop `12'
- }
- while ``idrop' != "" {
= while "12" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,12] {
    local ++drop
  }
- local ++i

```

```

- local idrop ``r(dropped_`i')'''
= local idrop `13'
- }
- while ``idrop' != "" {
= while "13" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,13] {
    local ++drop
  }
- local ++i
- local idrop ``r(dropped_`i')'''
= local idrop `14'
- }
- while ``idrop' != "" {
= while "14" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,14] {
    local ++drop
  }
- local ++i
- local idrop ``r(dropped_`i')'''
= local idrop `15'
- }
- while ``idrop' != "" {
= while "15" != "" {
- if !`omit'[1,`idrop'] {
= if !__00000T[1,15] {
    local ++drop
  }
- local ++i
- local idrop ``r(dropped_`i')'''
= local idrop `'''
- }
- while ``idrop' != "" {
= while "" != "" {
    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_t
> est _____
  - }
  - 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.Cl
> ear _____
    - 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.Cl
> ear _____
    - }
    - 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.Max
> Min _____
    - }
    _____
> _____ end mopt.Mo
> del _____
    - if c(rc) {
        local rc = c(rc)
        Clear
        exit `rc'
    }
    - exit
    _____
> _____ end m
> opt _____
    - 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 -420.2971615663282
- global S_E_chi2 = e(chi2)
- global S_E_mdf = e(df_m)
- global S_E_pr2 `e(r2_p)'
= global S_E_pr2 .1292897377468772
- 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_depvar `e(depvar)'
= global S_E_depvar y_timing_max
- global S_E_cmd `e(cmd)'
= global S_E_cmd poisson
- if "`display'"==" " {
= if ""==" " {
- Display, `irr' level(`level') `diopts'
= Display, level(95)

```

```

> ----- begin poisson.Disp
> lay
- syntax [, Level(cilevel) IRr *]
- if "`irr'"!=" " {
= if ""!=" " {
local eopt "eform(IRR)"
}
- _get_diopts diopts, `options'
= _get_diopts diopts,

```

```

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

```

```

> ----- begin _get_diopts.GetDio
> pts

```

```

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

> _____ end opts_exclus
> ive _____
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

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

```

```

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

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

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

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

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

```

```

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

```

```

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

```



```

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

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

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

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

> ----- begin opts_exclus
> ive

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
}

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

```

```

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

> ----- end opts_exclus
> ive -----
- 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'

```

```

= Wrapon ,
> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fwwrapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fwwrapon
    = opts_exclusive " " fwwrapon
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit
> _____ end opts_exclus
> ive _____
    - local fwwrapon `word' `width'
    = local fwwrapon
    - if `:length local fwwrapon' {
    = if 0 {
        c_local fwwrapon fwwrapon(`fwwrapon')
    }
> _____ end _get_diopts.Wra
> pon _____
    - if "`fwwrap'" != "" {
    = if "" != "" {
        FWWrap, `fwwrap'
    }
    - 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' `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.GetDio
> pts _____
    - 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_nolog = s(nolog)
    - }
    - 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_after = s(after)
    - }
    - local S_`sname' = s(`sname')
    = local S_before = s(before)
    - }
    - 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.GetDio
> pts -----
    - 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_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit

```

```

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

```

```

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

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

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

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

> ----- begin opts_exclus
> ive
    - version 8.2
    - args opts optname errcode optslab

```



```

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

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

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

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

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

```

```

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

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

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "

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

```

```

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

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

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

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

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

```

```

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

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____

```

```

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

```

```

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

```

```

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

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

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

> ----- end opts_exclus
> ive -----
    - local fvwraapon `word' `width'
    = local fvwraapon
    - if `:length local fvwraapon' {
    = if 0 {
        c_local fvwraapon fvwraapon(`fvwraapon')
    }

```

```

> _____ end _get_diopts.Wra
> pon _____
    - 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' `fwr
> ap' `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.GetDio
> pts _____
    - if ``name2'' == "" {
    = if ``' == "" {
    - GetDiopts DUPS, `options'
    = GetDiopts DUPS,
    _____

> _____ begin _get_diopts.GetDio
> pts _____
    - 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_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---



```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab

```

```

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

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

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

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

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`coeflegend` `selegend`"
= opts_exclusive " "
}

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

```

```

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

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

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

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

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

```

```

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

```

```

- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

```

> _____ begin _get_diopts.Wra

> pon _____

```

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

```



```

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

> _____ end opts_exclus
> ive _____
    - local fwwrapon `word' `width'
    = local fwwrapon
    - if `:length local fwwrapon' {
    = if 0 {
        c_local fwwrapon fwwrapon(`fwwrapon')
    }
    _____

> _____ end _get_diopts.Wra
> pon _____
    - if "`fwwrap'" != "" {
    = if "" != "" {
        FWWrap, `fwwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fwr
> ap' `fwwrapon' `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.GetDio
> pts
- }
- 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 nolog = `nolog'
- }
- 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 after = `, vce(robust)'
- }
- sreturn local `sname' = ``S_`sname'
= sreturn local before = `, argoptlist(CLUster) optlist(OIM OPG Robus
> t) old ''
- }

```

```

- sreturn local `sname' = `"'S_`sname'""'
= sreturn local k_fill = `"16"'
- }
- sreturn local `sname' = `"'S_`sname'""'
= sreturn local k = `"16"'
- }

```

```

> _____ end _get_dio
> pts _____
- 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'' == bsubs
> 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 m
```

> opt

```
- 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.Disp
> lay -----
  - 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 Title(passthru) NOTEST * ]
  - if "`plus'" != "" {
= if "" != "" {
  local footnote nofootnote
}
- if `neq' >= 0 {
= if -1 >= 0 {
  local neqopt neq(`neq')
}
- _get_diopts diopts options, `options'
= _get_diopts diopts options,

```

```

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

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"

```

```

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

```

```

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

```

```

- exit


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---



```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - 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')
    }
    - Wraapon , `fvwraapon'
= Wraapon ,

> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
        di as err "invalid fvwraapon() option;"
        syntax [, W0rd WIdth]
        exit 198
    }
    - opts_exclusive "`word' `width'" fvwraapon
= opts_exclusive " " fvwraapon

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

> _____ end opts_exclus
> ive _____
    - local fvwraapon `word' `width'
= local fvwraapon
    - if `:length local fvwraapon' {
= if 0 {

```

```

        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}


---


> ----- end _get_diopts.Wra
> pon -----
    - 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.GetDio
> pts -----
    - 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_before = s(before)

```



```

- }
- local S_`sname' = s(`sname')
= local S_after = s(after)
- }
- 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_nolog = s(nolog)
- }
- sreturn clear
- GetDiopts DEFAULT

```

```

> _____ begin _get_diopts.GetDio
> pts _____
- 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_exclus
> ive _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts'`` != "" {
= while `""' != "" {

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

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

```

```

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

```

```

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

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

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

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

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

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- 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.Wra
> pon _____
    - 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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }

```

```

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

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

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

```

```

= GetDiopts DUPS options,


---


> 

---

 begin _get_diopts.GetDio
> pts 

---


    - 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_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive ``baselevels' `nobaselevels'
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive ``emptycells' `noemptycells'
= opts_exclusive " "
}

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

```

```

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

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

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

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

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

```

```

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

```

```

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

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

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

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

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

```

```

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

```



```

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

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

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

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

> _____ end _get_diopts.Wra
> pon _____
    - 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 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.GetDio
> pts _____

```

```

    - 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 = `16'
    - }

```

```

- sreturn local `sname' = `"'S_`sname'""'
= sreturn local k_fill = `"16"'
- }
- sreturn local `sname' = `"'S_`sname'""'
= sreturn local before = `"', argoptlist(Cluster) optlist(OIM OPG
> Robust) old ""
- }
- sreturn local `sname' = `"'S_`sname'""'
= sreturn local after = `"', vce(robust)""'
- }
- 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 nolog = `"nolog"'
- }

_____
> _____ end _get_dio
> pts _____
- _get_eformopts , eformopts(`options') soptions allowed(__all__)
= _get_eformopts , eformopts() soptions allowed(__all__)
_____
> _____ begin _get_eformo
> pts _____
- 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  
- }  
- 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_eformo

```

```

> pts
    - 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_diparmo
> pts
    - 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.SpliceGlob
> als
    - 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.SpliceGlob
> als

```

```

- 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_diparmo
> pts -----
- if "`header'"==" " {
= if ""==" " {
- _coef_table_header, `title'
= _coef_table_header,
> ----- begin _coef_table_he
> der -----
- 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'
= _000005 = _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_xtvar          = 0
-      double is_cfreg          = 0
-      double is_sum            = 0
-      double is_tab            = 0
-      double is_r2_p           = 1
-      double is_multclust      = 0
-      double is_stintcox       = 0
-      double is_stmgintcox     = 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 TTitle(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.Ne
> w4e -----
    - version 16
    - .cmd = ``e(cmd)'''
    = .cmd = "poisson"
    - .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 "poisson" == "margins" {
      .is_margins = 1
    }
    - if inlist("`.cmd'", "contrast", "pwcompare") {
    = if inlist("poisson", "contrast", "pwcompare") {
      if ``.cmd2''' == "margins" {
        .is_margins = 1
      }
    }
    - if ``.cmd''' == "gsem" | ``.cmd2''' == "gsem" {
    = if "poisson" == "gsem" | "" == "gsem" {
      .is_gsem = 1
    }
    - if ``.cmd''' == "sem" {
    = if "poisson" == "sem" {
      .is_sem = 1
    }
    - if ``.cmd''' == "areg" {
    = if "poisson" == "areg" {

```



```

.is_areg = 1
}
- if ("`.cmd'" == "demandsys" & ``e(doheader)'"=="yes") {
= if ("poisson" == "demandsys" & `""'=="yes") {
.is_demand = 1
}
- if ("`.cmd'" == "demandsys") {
= if ("poisson" == "demandsys") {
.is_demandn = 1
}
- if ("`.cmd'" == "xthdidregress" & ``e(inestat)'"=="") {
= if ("poisson" == "xthdidregress" & ""=="") {
.is_htedid = 1
}
- if ("`.cmd'" == "xtvar") {
= if ("poisson" == "xtvar") {
.is_xtvar = 1
}
- if ("`.cmd'" == "cfregress") {
= if ("poisson" == "cfregress") {
.is_cfreg = 1
}
- if "`.cmd'" == "stintcox" {
= if "poisson" == "stintcox" {
.is_stintcox = 1
}
- if "`.cmd'" == "stmgintcox" {
= if "poisson" == "stmgintcox" {
.is_stmgintcox = 1
}
- if "`.cmd'" == "bdecomp" {
= if "poisson" == "bdecomp" {
.is_bacon = 1
}
- if "`.cmd'" == "bmaregress" {
= if "poisson" == "bmaregress" {
.is_bmareg = 1
}
- is_svysum `cmd'
= is_svysum poisson

```

```

> _____ begin is_svy
> sum _____

```

```

- version 9
- local SvySum mean prop proportion ratio total
- if ``0'" != "" & `:list 0 in SvySum' {

```

```

= if `"poisson"' != "" & 0 {
  return scalar is_svysum = 1
}
- else return scalar is_svysum = 0
_____
> _____ end is_svy
> sum _____
- .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 ++len
    if `.c4wfmt' <= `len' & `len' <= `maxlen' {
        .c3 = `.c3' + `.c4wfmt' - `len'
        .c4 = `.c4' + `.c4wfmt' - `len'
        .c4wfmt = `len'
    }
}

_____  

> _____ end _coef_table__header.Ne  

> w4e _____  

    - }  

    - else {  

        .New4r  

    }  

    - local props ```.Macro _coef_table_props'''  

    _____  

> _____ begin _coef_table__header.Ma  

> cro _____

```

```

- version 16
- class exit ```.result'(`0')'''
= class exit `'''

> _____ end _coef_table__header.Ma
> cro _____
      = local props `'''
      - if `.is_sem' | `.is_gsem_group' | `:list posof "pushtitle" i
> n props' {
      = if 0 | 0 | 0 {
        .prop_pushtitle = 1
      }
      - if (`.is_demand' | `.is_htedid' | `.is_xtvar') {
      = if (0 | 0 | 0) {
        .prop_pushtitle = 1
      }
      - if (`.is_bmareg') {
      = if (0) {
        .prop_pushtitle = 1
      }
      - if `.is_sem' | `.is_gsem_group' | `:list posof "groupvar" in
> props' {
      = if 0 | 0 | 0 {
        .prop_groupvar = 1
      }
      - local list tobit cpoisson ivtobit metobit xttobit
      - local list2 metobit
      - if `:list posof ``.cmd'" in list' | `:list posof ``.cmd2'" i
> n list2' | `:list posof "censlimits" in props' {
      = if 0 | 0 | 0 {
        .prop_censlimits = !missing(e(N_unc))
      }
      - 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 xtvar
    = local list xtreg xtprobit xtlogit xtcloglog xtfrontier xtint
> reg xtnbreg xtpoisson xttobit xtmlogit xtrc xtvar
    - 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 "poisson" == "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'.lalignnr = `head2left'
}
- if("`head2right'" != "") {
= if (" " != "") {
    .`obj'.ralignnr = `head2right'
}
- if("`width'" != "") {
= if (" " != "") {
    .`obj'.width = `width'
}
- .`obj'.build
= .__000005.build

```

```

> _____ begin _coef_table__header.bu
> ild _____
        - version 16
        - if ```.title''' == "" {
        = if `''' == "" {
        - .title = ```.Macro title'''

```

```

> _____ begin _coef_table__header.Ma
> cro _____
        - version 16
        - class exit ````result'(`0')'''
        = class exit `"Poisson regression"'

```

```

> _____ end _coef_table__header.Ma
> cro _____
        = .title = `"Poisson regression"'
        - .title2 = ```.Macro title2'''

```

```

> _____ begin _coef_table__header.Ma
> cro _____

```

```

- version 16
- class exit ```.result'(`0')'''
= class exit `'''

> _____ end _coef_table__header.Ma
> cro _____
    = .title2 = `'''
    - }
    - if `.is_areg' {
    = if 0 {
        local absvar ``e(absvar)''
        if `:list sizeof absvar' > 1 {
            .title2 = ""
        }
        else {
            local absvar = abbrev("`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 if `.is_stmgintcox' {
        if (`e(strata)' == "") {
            .PushLeft ```.title'''
            .PushLeft ```.title2'''
            .title = ""
            .title2 = ""
        }
        else {
            .PushLeft ```.title2'''
            .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_stmgintcox') {
= if (0) {
  .PushLeft ""
  .PushLeft "ID variable: {res}`e(id)'"
  .PushLeft "Event variable: {res}`e(event)'"
  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 "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.Build4t
> var _____
- version 16
- if `.opt_tvar' == 0 {
= if 1 == 0 {
exit
}
- if "`.Macro tvar'" == "" {
}

> _____ begin _coef_table__header.Ma
> cro _____
- version 16
- class exit ```.result'(`0')'''
= class exit `'''

```

```

> _____ end _coef_table__header.Ma
> cro _____
      = if "" == "" {
      - exit
      _____
> _____ end _coef_table__header.Build4t
> var _____
      - if (`.is_stmgintcox') {
      = if (0) {
      .PushRight "Number of events" " = " "as res" %`.c4wfmt'.0fc
> e(N_events)
      .PushRight "Number of subjects" " = " "as res" %`.c4wfmt'.0f
> c e(N_sub)
      }
      - if (!missing(`.Scalar N') & `.is_demandn'==0 & !`.is_bmareg'
> ) {
      _____
> _____ begin _coef_table__header.Sca
> lar _____
      - version 16
      - class exit ```= `.result'(`0')''
      = class exit ``"217"

> _____ end _coef_table__header.Sca
> lar _____
      = if (!missing(217) & 0==0 & !0) {
      - .PushRight "Number of obs" " = " "as res" %`.c4wfmt'.0fc `S
> calar N'
      _____
> _____ begin _coef_table__header.Sca
> lar _____
      - version 16
      - class exit ```= `.result'(`0')''
      = class exit ``"217"

> _____ end _coef_table__header.Sca
> lar _____
      = .PushRight "Number of obs" " = " "as res" %10.0fc 217
      _____
> _____ begin _coef_table__header.PushRi
> ght _____
      - 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("      217")
- .ralignr = max(`.ralignr', udstrlen("`direst'"))
= .ralignr = max(0, udstrlen("217"))
- 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':217}"
- }
- else if `:length local tok' {
= else if 13 {
. right.Arrpush `C3' ``tok'""
}
- else {
. right.Arrpush
}
}

> _____ end _coef_table__header.PushRi
> ght _____
- }
- 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(mcmcsz)
    .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.Sca
> lar _____
    - version 16
    - class exit ```= `.result'(`0')''
    = class exit ``.``
    _____
> _____ end _coef_table__header.Sca
> lar _____
    = if !missing(.) & 0 {
        .PushRight "Number of subjects" " = " "as res" %`.c4wfmt'.0f
> c `.Scalar N_sub'
    }
    - if `.is_areg' {
    = if 0 {
        local absvar ``e(absvar)''
        if `:list sizeof absvar' == 1 {
            .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.Build4clus
> ter _____

```

```

- version 16
- if `.is_multclust' {
= if 0 {
    .Build4mclust
    exit
  }
- if missing(`.Scalar N_clust') {

```

```

> _____ begin _coef_table__header.Sca
> lar _____
      - version 16
      - class exit ```= ``.result'(`0')''''
      = class exit ``".''
> _____ end _coef_table__header.Sca
> lar _____
      = if missing(.) {
      - exit
> _____ end _coef_table__header.Build4clus
> ter _____
      - .Build4reps
> _____ begin _coef_table__header.Build4r
> eps _____
      - version 16
      - if !missing(`.Scalar N_reps') {
> _____ begin _coef_table__header.Sca
> lar _____
      - version 16
      - class exit ```= ``.result'(`0')''''
      = class exit ``".''
> _____ end _coef_table__header.Sca
> lar _____
      = if !missing(.) {
        .PushRight "Replications" " = " "as res" %`.c4wfmt'.0fc `
> Scalar N_reps'
        if `.prop_censored' & !`.is_svy' {
        .PushRight
        }
        }
> _____ end _coef_table__header.Build4r
> eps _____
      - }
      - if `.prop_groups' {
      = if 0 {
        .Build4groups
      }
      - if `.is_stintcox' & "`e(strata)'" != "" {
      = if 0 & "" != "" {

```



```

        if `ndep' == 2 {
            .PushRight
        }
    }
- .Build4modeltest
    _____
> _____ begin _coef_table__header.Build4modelt
> est _____
    - 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.Ma
> cro _____
    - version 16
    - class exit ``.result'(`0')'
    = class exit ``1'
        _____
> _____ end _coef_table__header.Ma
> cro _____
    = if ``1' == "0" {
        exit
    }
    - if missing(`.Scalar df_m') {
        _____
> _____ begin _coef_table__header.Sca
> lar _____
    - version 16
    - class exit ``= `.result'(`0')'
    = class exit ``8'
        _____
> _____ end _coef_table__header.Sca
> lar _____
    = if missing(8) {
        exit
    }
    - if ``.Macro chi2' != "" | ``.Macro df_r' == "" {
        _____
> _____ begin _coef_table__header.Ma

```

```

> cro
- version 16
- class exit ```.result'(`0')'''
= class exit ``162.6970160223075'''

> _____ end _coef_table__header.Ma
> cro
_____
> _____ begin _coef_table__header.Ma
> cro
- version 16
- class exit ```.result'(`0')'''
= class exit `'''

> _____ end _coef_table__header.Ma
> cro
= if ``162.6970160223075''' != "" | `''' == "" {
- .Build4chi2test

> _____ begin _coef_table__header.Build4chi2t
> est
- 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.PushRi
> ght
- version 16
- gettoken tok rest : 0
- gettoken eq rest : rest
- gettoken dias rest : rest
- if `:length local rest' {
= if 15 {
- local direct = ustrltrim("` : di `rest'")
= local direct = ustrltrim(" 162.70")

```

```

- .ralignr = max(`.ralignr', udstrlen("`direst'"))
= .ralignr = max(3, udstrlen("162.70"))
- 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':162.70}"
- }
- else if `:length local tok' {
= else if 18 {
    .right.Arrpush \`.C3' ``tok'''
}
- else {
    .right.Arrpush
}

> _____ end _coef_table__header.PushRi
> ght _____
- .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.PushRi
> ght _____
- 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.PushRi
> ght _____
- }
- 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.Build4chi2t
> est _____
- }
- else {
. Build4Ftest
}
}

> _____ end _coef_table__header.Build4modelt
> est _____
- . Build4r2
}

> _____ begin _coef_table__header.Build
> 4r2 _____
- 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.PushRi
> ght _____
    - 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("    0.1293")
    - .ralignr = max(`.ralignr', udstrlen("`direst'"))
    = .ralignr = max(6, udstrlen("0.1293"))
    - 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':0.1293}"
    - }
    - else if `:length local tok' {
    = else if 9 {
    .right.Arrpush `C3' ``tok'""
    }
    - else {
    .right.Arrpush
    }
    _____
> _____ end _coef_table__header.PushRi
> ght _____
    - }
    - 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.Build
> 4r2 _____
    - .Build4title

```

```

> ----- begin _coef_table__header.Build4ti
> tle -----
    - version 16
    - if `.opt_septitle' {
= if 0 {
    exit
    }
    - if `""`.title' == "" {
= if `"Poisson regression"' == "" {
    exit
    }
    - if `.left.arnels' {
= if 0 {
    exit
    }
    - local title `.title'
= local title Poisson regression
    - local title2 `.title2'
= local title2
    - local len : smcllength local title
    - local len2 : smcllength local title2
    - if `len2' > `len' {
= if 0 > 18 {
    local len = `len2'
    }
    - if `len' < (`c3' - 2) - (`c1' - 1) {
= if 18 < (49 - 2) - (1 - 1) {
    - PushLeft `""`.title'
= PushLeft `"Poisson regression"'

```

```

> ----- begin _coef_table__header.PushL
> eft -----
    - 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 18 {
    - .left.Arrpush \`.C1' ```tok'``
    = .left.Arrpush \`.C1' ``Poisson regression"
    - }
    - else {
    .left.Arrpush
    }
}

> _____ end _coef_table__header.PushL
> eft _____
    - .title = ""
    - if `len2' {
    = if 0 {
    PushLeft ```.title2'``
    .title2 = ""
    }
    - }
    - .opt_septitle = 1
}

> _____ end _coef_table__header.Build4ti
> tle _____
    - 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')
    }
    }
    - if `.is_xtvar' {
    = if 0 {
    local uno = (`e(rank_W)' < `e(Z_cols)') & (`e(J)' != .j)
    if ("`e(collapse)'=""") {

```

```

        if (`uno'==0) {
        }
        else {
            local extra " {txt}"
        }
        .PushLeft "Number of moment conditions" " = " "as res" %`.c4
> wfmt'.0fc e(Z_cols) "`extra'"
    }
    else {
        if (`uno'==0) {
        }
        .PushLeft "Number of moment conditions" " = " "as res" %`.c4
> wfmt'.0fc e(Z_cols) " {txt}(collapsed)"
    }
    local uno = (`e(rank_W)' < `e(Z_cols)') & (`e(J)' != .j)
    if ("`e(collapse)'"==" & `uno'==0) {
    }
    if ("`e(collapse)'"==" & `uno'==1) {
        .PushLeft "Rank of weight matrix" " = " "as res" %`.c4wfmt'.
> 0fc e(rank_W) "{txt}{helpb j_xtvar_Jdf##lowrank:*}"
    }
    if ("`e(collapse)'"!=" & `uno'==0) {
    }
    if ("`e(collapse)'"!=" & `uno'==1) {
        .PushLeft "Rank of weight matrix" " = " "as res" %`.c4wfmt'.
> 0fc e(rank_W) "{helpb j_xtvar_Jdf##lowrank:*}          {txt}"
    }
    }
- if `.is_cfreg' {
= if 0 {
    local k = e(k_paren)
    local mtypes `e(modeltypes)'
    local looklong: list uniq mtypes
    local kt: list sizeof looklong
    forvalues ei = 1(1)`=wordcount("`e(endog)'"')' {
        local enei : word `ei' of `e(endog)'
        _ms_parse_parts `enei'
        if (`r(omit)' & "`r(type)'"=="factor") {
            continue
        }
        local endog `endog' `enei'
    }
    if (`kt'>1 | `=wordcount("`endog'")'>1) local ess s
    .PushLeft
    .PushLeft
    .PushLeft

```



```

if (`e(r2)' != "") if (`e(r2)' < .) .PushLeft
.PushLeft "Endogenous variable model`ess':"
local largo = 0
forvalues i=1/`kt' {
local x: word `i' of `looklong'
if (`x'=="fprobit") {
local x "Fractional probit"
}
local largo1 = strlen("`x'")
local largo = max(`largo', `largo1')
local largo1 = `largo'
}
forvalues j = 1/`kt' {
local endj: word `j' of `looklong'
forvalues i=1/`k' {
local typo "`e(type`i)'"
forvalues ei = 1(1) `=wordcount("`e(endogvars`i)')'" {
local eniei : word `ei' of `e(endogvars`i)''
_ms_parse_parts `eniei'
if (`r(omit)' & "`r(type)'"=="factor") {
continue
}
local insts`j'`_i' `insts`j'`_i'' `eniei'
}
if (`endj'=="`typo'") {
local print`j' "`print`j'' `insts`j'`_i''"
local print`j' = strltrim("`print`j'")
}
}
}
forvalues i=1/`kt' {
local slng = `largo' + 6
local x: word `i' of `looklong'
if (`x'=="fprobit") {
local x "Fractional probit"
}
else {
local x = strproper("`x'")
}
local y "`print`i'"
.left.Arrpush %-%`slng's " `x': " "{res}`y'"
}
if (`e(vcetype)' == "HAC") {
local ktyp `e(hac_kernel)'
local fmt -6.0f
local adds "s"

```

```

        if "`ktyp'" == "quadratic spectral" {
            local ktyp "Quadratic spectral"
            local fmt -6.3f
        }
        if `e(hac_lag)'==1 {
            local adds
        }
        local hn : di "{txt}HAC kernel: {res}`ktyp'" "{txt} with {re
> s}" `:di %`fmt' `e(hac_lag)' "{txt} lag`adds'"
        .PushLeft
        .left.Arrpush %-48s "`hn'"
    }
}
- .Build4crit
}

> ----- begin _coef_table__header.Build4c
> rit -----
    - version 16
    - if "`result'" != "e" {
    = if "e" != "e" {
        exit
    }
    - local offset 1
    - local hascrit = !missing("`e(ll)'"') & !missing("`e(crit
> type)'"')
    = local hascrit = !missing("`-365.9570517716608'"') & !missin
> g("`log pseudolikelihood'")
    - if inlist("`e(dispers)'", "mean", "constant") {
    = if inlist("", "mean", "constant") {
        if `hascrit' {
            local ++offset
            local crtype "`e(crittype)'"
            local clen : length local crtype
            .c2 = `clen' + 2
        }
        local didisp = strtrim("`: di e(dispers)'"')
        local DISPERS `""Dispersion: {res:`didisp'}""'
    }
    - .FillLeft `offset'
    = .FillLeft 1
}

> ----- begin _coef_table__header.FillL
> eft -----
    - 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 - 01
- forval i = 1/`diff' {
= forval i = 1/2 {
- .left.Arrpush ""
- }
- .left.Arrpush ""
- }

> _____ end _coef_table__header.Fillll
> eft _____
- if ``DISPERS'' != "" {
= if `'' != "" {
. PushLeft `DISPERS'
}
- 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.PushLeftRal
> ign _____
- 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("-365.95705")
- local len : smcllength local direst
- .ralignla = max(`.ralignla', `len')
= .ralignla = max(0, 10)
- local len : di ``tok'""
= local len : di ``Log pseudolikelihood""
- local len : smcllength local len
- .lalignla = max(`.lalignla', `len')
= .lalignla = max(0, 20)
- .left.Arrpush `C1' ``{lalign `.lalignla':`tok'}"" \`.
> C2a' ``eq'"" `dias' "{ralign `.ralignla':`direst'}"
= .left.Arrpush `C1' ``{lalign `.lalignla':Log pseudolike
> lihood}"" `C2a' " = " as res "{ralign `.ralignla':-365.95705}"
- }
- else if `:length local tok' {
= else if 20 {
. left.Arrpush `C1' ``tok'""
}
- else {
. left.Arrpush
}
}

> _____ end _coef_table__header.PushLeftRal
> ign _____
- }
- }

> _____ end _coef_table__header.Build4c
> rit _____
- .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.bu
> ild _____
- 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
= .__000005.display
}

> _____ begin _coef_table__header.disp
> lay _____
    - version 16
    - .ShowRules
}

> _____ begin _coef_table__header.ShowRu
> les _____
    - 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("poisson", "logistic", "logit", "probit") {
  - exit
}

> _____ end _coef_table__header.ShowRu
> les _____
    - 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) `"Poisson regression"' as txt
> _col(57) `{lalign 13:Number of obs}' _col(70) " = " as res "{ralign 6:217
> }"
Poisson regression                                Number of obs =    217
      - }
      - 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 6:162.70}"
                                     Wald chi2(8)  = 162.70
      - }
      - 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:Prob >
> chi2}"" _col(70) " = " as res "{ralign 6:0.0000}"
                                     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:-365.95705}" as txt _col(57) `{la
> lign 13:Pseudo R2}"" _col(70) " = " as res "{ralign 6:0.1293}"
Log pseudolikelihood = -365.95705 Pseudo R2 = 0.1293
      - }
      _____
> _____ end _coef_table__header.disp
> lay _____
      - }
      - 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_he
> der _____
    - di
    - }
    - _coef_table, `first' level(`level') `neqopt' `plus' `noskip' `sh
> oweqns' `diopts' `options' `notest'
    = _coef_table, level(95)

```

```

> _____ begin _coef_ta
> ble _____
    - 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 "poisson"
    - local keepmc : list cmd in mc_cmds
    - if inlist("`cmd'", "pwcompare", "pwmean") {
    = if inlist("poisson", "pwcompare", "pwmean") {
      local groups GROUPS
    }

```

```

- if "`cmd'" == "regress" {
= if "poisson" == "regress" {
    local beta Beta
  }
- if "`cmd'" == "gsem" {
= if "poisson" == "gsem" {
    local fvignore fvignore(int 0)
    local flignore flignore
  }
- if "`cmd'" == "sem" {
= if "poisson" == "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) P
> MATrix(string) TSMATrix(string) ROWCFormat(string) ROWPFormat(string) ROWSFo
> rmat(string) NOROWCI MMATrix(string) MVMATrix(string) MEMATrix(string) BSTDM
> ATrix(string) CNSMATrix(string) PCLASSMATrix(string) Level(cilevel) prefix(n
> ame) cnszero(string) suffix(name) OFFSETlist(string asis) `beta' `standardiz
> ed' NOCI NOPValues `dftable' `dfonly' dfci DFPValues dfmissing `groups' COEF
> Legend selegend `fvignore' `flignore' `showginvariant' `nolabel' `nofootnote
> ' `wrap' sort `pisematrix' depname(string) COEFTitle(string) coeftitle2(stri
> ng) ptitle(string) cititle(string) NOMCLEgend noCNSReport FULLCNSReport `noc
> lustreport' cformat(passthru) sformat(passthru) pformat(passthru) NOFirst Fi
> rst SHOWEQns neq(integer -1) NODIPARM NOTEST SEParator(integer 0) NOSKIP OFF
> SETONLY1 Plus NOEQCHECK EFORMALL CITYPE(string) eqselect(string) cidisjoint
> noEFORMNOTE * ]
= syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(st
> ring) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) P
> MATrix(string) TSMATrix(string) ROWCFormat(string) ROWPFormat(string) ROWSFo
> rmat(string) NOROWCI MMATrix(string) MVMATrix(string) MEMATrix(string) BSTDM
> ATrix(string) CNSMATrix(string) PCLASSMATrix(string) Level(cilevel) prefix(n
> ame) cnszero(string) suffix(name) OFFSETlist(string asis) NOCI NOPValues
> dfci DFPValues dfmissing COEFLegend selegend sort depname(string) C
> OEFTitle(string) coeftitle2(string) ptitle(string) cititle(string) NOMCLEgen

```

```

> d noCNSReport FULLCNSReport cformat(passthru) sformat(passthru) pformat(pas
> sthru) NOFirst First SHOWEQns neq(integer -1) NODIPARM NOTEST SEPARATOR(inte
> ger 0) NOSKIP OFFSETONLY1 PLUS NOEQCHECK EFORMALL CITYPE(string) eqselect(st
> ring) cidisjoint 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
      }
    }
    - _novce_other_mats, cimatrix("`cimatrix'") pmatrix("`pmatrix'")
> tsmatrix("`tsmatrix'") `nocl' `nopvalues' `dfci' `dfpvalues' `cidisjoint'
    = _novce_other_mats, cimatrix("") pmatrix("") tsmatrix("")

> _____ begin _coef_table._novce_other_m
> ats _____
    - syntax [anything], [ CIMATrix(string) PMATrix(string) TSMATr
> ix(string) NOCI NOPValues dfci DFPValues cidisjoint ]
    - if ("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`ci
> matrix'"!=" & "`nocl'"!=") {
      = if ("==" & ""=="" & "matrix"=="" & ""!=" & ""!=") {
        sreturn local cimatrix "empt"
      }
      - if ("`pmatrix'"=="" & "`tsmatrix'"!=" & "`e(V)'"=="" & "`ci
> matrix'"=="" & ("`nocl'"!="|`nopvalues'"!=")) {
        = if ("==" & ""!=" & "matrix"=="" & ""=="" & ("!"=="|!"=="
> )) {
          sreturn local nocl "empt"
          sreturn local nopvalues "empt"
        }
      - if ("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`ci
> matrix'"!=" & "`nocl'"!=") {
        = if ("==" & ""=="" & "matrix"=="" & ""!=" & ""!=") {
          sreturn local cimatrix "empt"

```

```

    }
    - if ("`pmatix'" != "" & "`tsmatrix'" == "" & "`e(V)'" == "" & "`ci
> matrix'" == "" & "`nopvalues'" != "") {
    = if ("'" != "" & "" == "" & "matrix" == "" & "" == "" & "" != "") {
        sreturn local pmatix "empt"
    }
    - if ("`pmatix'" != "" & "`tsmatrix'" == "" & "`e(V)'" == "" & "`ci
> matrix'" == "" & "`noci'" != "") {
    = if ("'" != "" & "" == "" & "matrix" == "" & "" == "" & "" != "") {
        sreturn local noci "empt"
    }
    - if ("`pmatix'" != "") {
    = if ("'" != "") {
        tempname pmat invalid
        capture matrix `pmat' = `pmatix'
        local rc = _rc
        if (`rc') {
            display as error "invalid {bf:pmatix()}"
            exit 198
        }
        else {
            local k: rowsof `pmat'
            if (`k' > 1 | `k' == 0) {
                display as error "{bf:pmatix()} should be a row vector"
                exit 198
            }
        }
        scalar `invalid' = 1
        mata: _is_in_0_1void("`pmat'", "`invalid'")
        if (`invalid' == 0) {
            display as error "invalid {bf:pmatix()}"
            di as txt "{p 4 4 2}"
            di as smcl as err "{bf:pmatix()}"
            di as smcl as err "should contain values inside"
            di as smcl as err "the interval [0,1]."
            di as smcl as err "{p_end}"
            exit 198
        }
    }
    - if ("`tsmatrix'" != "") {
    = if ("'" != "") {
        tempname tmat
        capture matrix `tmat' = `tsmatrix'
        local rc = _rc
        if (`rc') {
            display as error "invalid {bf:tsmatrix()}"

```

```

exit 198
}
else {
local k: rowsof `tmat'
if (`k'>1 | `k'==0) {
display as error "{bf:tsmatrix()} should be a row vector"
exit 198
}
}
}
- if ("`cimatrx'"!="") {
= if ("'"!="") {
tempname cimat invalid
capture matrix `cimat' = `cimatrx'
local rc = _rc
if (`rc') {
display as error "invalid {bf:cimatrx()}"
exit 198
}
if ("`cidisjoint'"==" & "`e(disjoint)'"=="") {
scalar `invalid' = 1
mata: _is_in_ci("`cimat'", "`invalid'")
if (`invalid'==0) {
display as error "invalid {bf:cimatrx()}"
di as txt "{p 4 4 2}"
di as smcl as err "{bf:cimatrx()}"
di as smcl as err "lower limit should be"
di as smcl as err "smaller than the upper"
di as smcl as err "limit."
di as smcl as err "{p_end}"
exit 198
}
}
}
- if ("`e(V)'"==" & "`dfci'"!=" & "`pmatrx'"!="") {
= if ("matrix"==" & "'"!=" & "'"!="") {
opts_exclusive "pmatrx() `dfci'"
}
- if ("`e(V)'"==" & "`dfci'"!=" & "`tsmatrx'"!="") {
= if ("matrix"==" & "'"!=" & "'"!="") {
opts_exclusive "tsmatrx() `dfci'"
}
- if ("`e(V)'"==" & "`dfci'"!=" & "`cimatrx'"!="") {
= if ("matrix"==" & "'"!=" & "'"!="") {
opts_exclusive "cimatrx() `dfci'"
}
}
}

```

```

- if ("`e(V)'"==" & "`dfpvalues'"!=" & "`pmatrx'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
  opts_exclusive "pmatrx() `dfci'"
}
- if ("`e(V)'"==" & "`dfpvalues'"!=" & "`tsmatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
  opts_exclusive "tsmatrix() `dfpvalues'"
}
- if ("`e(V)'"==" & "`dfpvalues'"!=" & "`cimatrix'"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
  opts_exclusive "cimatrix() `dfpvalues'"
}
}

> _____ end _coef_table._novce_other_m
> ats _____
- if ("`s(cimatrix)'"=="empt") {
= if ("=="empt") {
  local cimatrix ""
}
- if ("`s(pmatrx)'"=="empt") {
= if ("=="empt") {
  local pmatrx ""
}
- if ("`s(noci)'"=="empt") {
= if ("=="empt") {
  local noci ""
}
- if ("`s(nopvalues)'"=="empt") {
= if ("=="empt") {
  local nopvalues ""
}
- if ("`e(V)'"!=" & "`cidisjoint'"!=") {
= if ("matrix"!=" & ""!=") {
  display in red "option {bf:cidisjoint} not allowed when e(V) i
> s posted"
  exit 198
}
- else local fvlabel `nofvlabel' `fvlabel'
= else local fvlabel
- local type `coeflegend' `selegend'
= local type
- opts_exclusive "`type' `standardized'"
= opts_exclusive " "
}

> _____ begin opts_exclus
> ive _____

```

```

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

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

> ----- end opts_exclus
> ive -----
- opts_exclusive ``first' `nofirst''
= opts_exclusive " "

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

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

```



```

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

> ----- end opts_exclus
> ive -----
    - local cnsreport `cnsreport' `fullcnsreport'
    = local cnsreport
    - opts_exclusive ``cnsreport'
    = opts_exclusive ""
    -----

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

> ----- end opts_exclus
> ive -----
    - 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_mcomp
> are _____
      - version 11
      - local cmd ``e(cmd)``
      = local cmd ``poisson``
      - syntax [name(name=caller)] [, *]
      - local is_pwc = inlist("pwcompare", ``cmd``, ``caller``) | in
> list("pwmean", ``cmd``, ``caller``)
      = local is_pwc = inlist("pwcompare", "poisson", "") | inlist("
> pwmean", "poisson", "")
      - local is_marg = inlist("margins", ``cmd``, ``e(cmd2)``, ``ca
> ller``)
      = local is_marg = inlist("margins", "poisson", "", "")
      - 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_exclus
> ive _____
        - version 8.2
        - args opts optname errcode optslab
        - local opts `opts'
        = local opts
        - local n 0
        - while ```opts'"" != "" {
        = while `""' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
            - exit

> _____ end opts_exclus
> ive _____
        - 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_exclus
> ive -----
    - 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_exclus
> ive -----
    - 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_mcomp
> are _____
    - 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_exclus
> ive _____

```

```

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

> ----- end opts_exclus
> ive -----
- if "`method'" == "dunnett" {
= if "noadjust" == "dunnett" {
    opts_exclusive "`method' `groups'"
}
- _get_diopts diopts options, `options' `fvwrap' `fvlabel'
= _get_diopts diopts options,
}

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

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

```

```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab

```



```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
}

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

```

```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`cnsreport` `fullcnsreport`"
= opts_exclusive " "

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`coeflegend` `selegend`"
= opts_exclusive " "

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

```

```

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

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

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

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

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

```

```

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

```

```

- 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.Wra
> pon _____

```

```

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

> _____ end opts_exclus
> ive _____
    - local fwwrapon `word' `width'
    = local fwwrapon
    - if `:length local fwwrapon' {
    = if 0 {
        c_local fwwrapon fwwrapon(`fwwrapon')
    }
    _____

> _____ end _get_diopts.Wra
> pon _____
    - if "`fwwrap'" != "" {
    = if "" != "" {
        FWWrap, `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' `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.GetDio
> pts _____
        - c_local `name1' ``diopsts'""
        = c_local diopsts `""'
        - 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.GetDio
> pts _____
        - 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_exclus
> ive _____
        - version 8.2
        - args opts optname errcode optslab
        - local opts `opts'
        = local opts
        - local n 0

```



```

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`allbaselevels' `nbaselevels'"
    = opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`baselevels' `nbaselevels'"
    = opts_exclusive " "
}

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

```

```

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

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"

```

```

= opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---


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


---


> 

---

 end opts_exclus
> ive 

---


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


---


> 

---

 begin opts_exclus
> ive 

---



```

```

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

```

```

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

```

```

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

```

```

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

```

```

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

```

```

> _____ begin _get_diopts.Wra
> pon _____

```

```

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

```

```

> _____ begin opts_exclus
> ive _____

```

```

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

```



```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}
> _____ end opts_exclus
> ive _____
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}
> _____ end _get_diopts.Wra
> pon _____
    - 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.GetDio
> pts _____
    - if ``name2' == "" {
    = if ``options' == "" {
        GetDiopts DUPS, `options'
    }
}

```

```

        - else {
        - GetDiopts DUPS options, `options'
        = GetDiopts DUPS options,

```

```

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

```

```

> _____ end opts_exclus
> ive _____
        - opts_exclusive "`allbaselevels' `nobaselevels'"
        = opts_exclusive " "

```

```

> _____ begin opts_exclus
> ive _____
        - version 8.2

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "
}

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

> _____ end _get_diopts.Wra
> pon _____

```

```

- 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.GetDio

```

```

> pts _____

```

```

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

> ----- begin _get_diopts.GetDio
> pts
    - 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_exclus
> ive

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

```

```

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

```

```

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

```



```

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

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

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

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

> _____ end opts_exclus
> ive _____
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

```

```

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

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
    _____

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

> _____ end opts_exclus
> ive _____
    - 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

```

```

> ----- begin _get_diopts.Wra
> pon -----

```

```

- 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_exclus
> ive -----

```

```

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

```

```

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

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

> _____ end _get_diopts.Wra
> pon _____
        - 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.GetDio
> pts _____
    - 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.GetDio
> pts _____
    - 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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ```opts'' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```

```

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

```

```

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

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

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

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

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

```



```

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

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

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

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

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab

```

```

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "
}

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

> ----- end opts_exclus
> ive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
}

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

```

```

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

> ----- end opts_exclus
> ive -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding` `compare`"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts`
= local opts
    - local n 0
    - while `""`opts`"" != "" {
= while `""` != "" {
    local ++n
    gettoken item`n` opts : opts, bind
}
    - if `n` < 2 {
= if 0 < 2 {
    - exit
}

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus` `compare`"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts`
= local opts
    - local n 0
    - while `""`opts`"" != "" {
= while `""` != "" {
    local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
}
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ``opts' != "" {
= while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> ----- end opts_exclus
> ive -----
    - 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.Wra
> pon _____
- 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_exclus
> ive _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
local ++n
gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> _____ end opts_exclus
> ive _____
      - local fvwrapon `word' `width'
      = local fvwrapon
      - if `:length local fvwrapon' {
      = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
      }
      _____

> _____ end _get_diopts.Wra
> pon _____
      - 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.GetDio
> pts _____
      - if ``name2' == "" {
      = if `""' == "" {
      - GetDiopts DUPS, `options'
      = GetDiopts DUPS,
      _____

> _____ begin _get_diopts.GetDio
> pts _____
      - 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_exclus
> ive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> 

---

 end opts_exclus
> ive 

---


    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }

```



```

- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while "`opts'" != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

```

```

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts'"" != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`omitted' `noomitted'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while `""`opts'"" != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'

```

```

= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus' `compare'"
= opts_exclusive " "

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}
> ----- end opts_exclus
> ive -----
    - 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.Wra

```

> pon
    - 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

>
> ive
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
        - exit

>
> ive
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }

>
> pon
    - 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.GetDio
> pts _____
    - }
    - 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_dio
> pts _____
    - 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_eformo
> pts 

---


- version 8.0
- syntax [, eformopts(string asis) soptions ALLOWed(string) ]
- local 0 , `eformopts'
= local 0 ,
- local EFALL NOHR hr NOSHR shr or IRr RRr tr TRatio
- if ``soptions'' != "" {
= if "soptions" != "" {
- syntax [, EForm1(passthru) EForm `EFALL' * ]
= syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRr RR
> r tr TRatio * ]
- local opts ``options''
= local opts `""'
- local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or' `i
> rr' `rrr' `tr' `tratio'
= local 0 ,
- }
- if ``allowed'' == "__all__" {
= if "__all__" == "__all__" {
- local allowed `EFALL'
= local allowed NOHR hr NOSHR shr or IRr RRr tr TRatio
- }
- foreach ef of local allowed {
- capture confirm name `ef'
= capture confirm name NOHR
- if _rc {
di as err ``ef' is not a valid name"
exit 198
}
- local efopts `efopts' `=lower("`ef"')'
= local efopts nohr
- }
- capture confirm name `ef'
= capture confirm name hr
- if _rc {
di as err ``ef' is not a valid name"
exit 198
}
}

```

```

- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr
- }
- capture confirm name `ef'
= capture confirm name NOSHR
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
  }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr
- }
- capture confirm name `ef'
= capture confirm name shr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
  }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr
- }
- capture confirm name `ef'
= capture confirm name or
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
  }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or
- }
- capture confirm name `ef'
= capture confirm name IRr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
  }
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr
- }
- capture confirm name `ef'
= capture confirm name RRr
- if _rc {
    di as err "`ef' is not a valid name"
    exit 198
  }
- local efopts `efopts' `=lower("`ef'")'

```

```

= local efopts nohr hr noshr shr or irr rrr
- }
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
  di as err "`ef' is not a valid name"
  exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr
- }
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
  di as err "`ef' is not a valid name"
  exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr tratio
- }
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRr RRr

> tr TRatio ]

- foreach ef of local efopts {
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }

```

```

- local eform `eform' ``ef''
= local eform
- }
- local eform `eform' ``ef''
= local eform
- }
- if ```eform1'``'=="Odds ratio" {
= if ``'``'=="Odds ratio" {
    local eform_cons_ti = "Odds"
    local eform_cons_note = "odds ratios"
}
- else if ```eform1'``'=="Haz. ratio" {
= else if ``'``'=="Haz. ratio" {
    local eform_cons_ti = "Hazard"
    local eform_cons_note = "hazard ratios"
}
- else if ```eform1'``'=="Time ratio" {
= else if ``'``'=="Time ratio" {
    local eform_cons_ti = "Time"
    local eform_cons_note = "time ratios"
}
- else if ```eform1'``'=="IRR" {
= else if ``'``'=="IRR" {
    local eform_cons_ti = "Inc. rate"
    local eform_cons_note = "incidence-rate ratios"
    local eform_cons_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_eformo
> pts _____
  - 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_diparmo
> pts _____
    - 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.SpliceGlob
> als _____
    - 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.SpliceGlob
> als _____
    - 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_diparmo
> pts _____
- 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 `""' != "" {
  local i 1
  local diparm ``e(diparm1)''
}
- 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_dio
> pts _____
    - version 11
    - syntax namelist(max=2) [, *]
    - gettoken name1 namelist : namelist
    - gettoken name2 namelist : namelist
    - GetDiopts diopts options, `options'
    = GetDiopts diopts options,

> _____ begin _get_diopts.GetDio
> pts _____
    - 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_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "
    _____
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "

```

```

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`emptycells' `noemptycells'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    _____

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`fvlabel' `nofvlabel'"
    = opts_exclusive " "
    _____

> _____ begin opts_exclus
> ive _____
    - version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0

```

```

- while ``opts'' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
}

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    }

> _____ end opts_exclus
> ive _____
    - opts_exclusive "`coeflegend' `selegend'"
    = opts_exclusive " "
}

> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }

```

```

        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit
    }
}
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`noci' `nopvalues'"
    = opts_exclusive " "
}
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}
}
> ----- end opts_exclus
> ive -----
    - local K : list sizeof namelist
    - gettoken c_diopts c_opts : namelist
    - opts_exclusive "`coding' `compare'"
    = opts_exclusive " "
}
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```



```

        = if 0 < 2 {
        - exit
    }
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`versus' `compare'"
    = opts_exclusive " "
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    }
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`abbrev' `noabbrev'"
    = opts_exclusive " "
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    }
> ----- end opts_exclus

```

> ive

```
- 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.Wra

> pon _____

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
    di as err "invalid fvwraon() option;"
    syntax [, W0rd WIdth]
    exit 198
    }
- opts_exclusive ``word' `width' fvwraon

```

```

= opts_exclusive " " fvwrapon
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
> _____ end opts_exclus
> ive _____
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
> _____ end _get_diopts.Wra
> pon _____
    - 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.GetDio
> pts _____
- c_local `name1' ``diopts'''
= c_local __000005 `'''
- 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.GetDio
> pts _____
- 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_exclus
> ive _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts

```

```

- local n 0
- while ``opts'' != "" {
= while `'' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`allbaselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`baselevels' `nobaselevels'"
= opts_exclusive " "

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts'' != "" {
= while `'' != "" {
  local ++n

```

```

        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`emptycells' `noemptycells'"
= opts_exclusive " "
}
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
> _____ end opts_exclus
> ive _____
    - opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "
}
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {

```

```

- exit
- end opts_exclus
>
> ive
- opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
- begin opts_exclus
>
> ive
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
- end opts_exclus
>
> ive
- opts_exclusive "`lstretch' `nolstretch'"
= opts_exclusive " "
- begin opts_exclus
>
> ive
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
- end opts_exclus
>
> ive

```



```

- opts_exclusive "`cnsreport' `fullcnsreport'"
= opts_exclusive " "

```

```

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> ----- end opts_exclus
> ive -----
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

```

```

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ```opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

```

```

> ----- end opts_exclus
> ive -----
- opts_exclusive "`noci' `nopvalues'"
= opts_exclusive " "

```

```

> ----- begin opts_exclus

```

```

> ive
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> end opts_exclus

> ive
- local K : list sizeof namelist
- gettoken c_diopts c_opts : namelist
- opts_exclusive "`coding' `compare'"
= opts_exclusive " "

> begin opts_exclus

> ive
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> end opts_exclus

> ive
- opts_exclusive "`versus' `compare'"
= opts_exclusive " "

> begin opts_exclus

> ive
- version 8.2

```

```

- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- opts_exclusive "`abbrev' `noabbrev'"
= opts_exclusive " "
}

> ----- begin opts_exclus
> ive -----
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
    }
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraupon , `fvwraupon'
= Wraupon ,

```

> _____ begin _get_diopts.Wra

> pon _____

```

- capture syntax [, W0rd WIdth]
- if c(rc) {
di as err "invalid fvwraupon() option;"
syntax [, W0rd WIdth]
exit 198
}
- opts_exclusive ``word' `width'" fvwraupon
= opts_exclusive " " fvwraupon

```

> _____ begin opts_exclus

> ive _____

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts''' != "" {
= while `''' != "" {

```

```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    }
}

> ----- end opts_exclus
> ive -----
    - local fvwrapon `word' `width'
    = local fvwrapon
    - if `:length local fvwrapon' {
    = if 0 {
        c_local fvwrapon fvwrapon(`fvwrapon')
    }
}

> ----- end _get_diopts.Wra
> pon -----
    - 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.GetDio
> pts -----
    - if ``name2' == "" {
    = if `""' == "" {
    - GetDiopts DUPS, `options'

```

```

= GetDiopts DUPS,


---


> 

---

 begin _get_diopts.GetDio
> pts 

---


    - 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_exclus
> ive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit


---


> 

---

 end opts_exclus
> ive 

---


    - opts_exclusive "`allbaselevels' `nobaselevels'"
    = opts_exclusive " "


---


> 

---

 begin opts_exclus
> ive 

---


    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'

```

```

        = local opts
        - local n 0
        - while ``opts'' != "" {
        = while `'' != "" {
            local ++n
            gettoken item`n' opts : opts, bind
        }
        - if `n' < 2 {
        = if 0 < 2 {
        - exit
    }

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`baselevels' `nobaselevels'"
    = opts_exclusive " "

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `'' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
}

> ----- end opts_exclus
> ive -----
    - opts_exclusive "`emptycells' `noemptycells'"
    = opts_exclusive " "

> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts'' != "" {
    = while `'' != "" {

```



```

        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
}
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`fvlabel' `nofvlabel'"
= opts_exclusive " "
}
}
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
= if 0 < 2 {
    - exit
}
}
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`omitted' `noomitted'"
= opts_exclusive " "
}
}
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local n 0
    - while ```opts'"" != "" {
= while `""' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {

```

```

        = if 0 < 2 {
        - exit
    }
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`lstretch' `nolstretch'"
    = opts_exclusive " "
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    }
> ----- end opts_exclus
> ive -----
    - opts_exclusive "`cnsreport' `fullcnsreport'"
    = opts_exclusive " "
> ----- begin opts_exclus
> ive -----
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
    }
> ----- end opts_exclus

```

```

> ive -----
      - opts_exclusive "`coeflegend' `selegend'"
      = opts_exclusive " "
-----

> ----- begin opts_exclus
> ive -----
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ``opts' != "" {
      = while `"' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
          }
      - if `n' < 2 {
      = if 0 < 2 {
      - exit
-----

> ----- end opts_exclus
> ive -----
      - opts_exclusive "`noci' `nopvalues'"
      = opts_exclusive " "
-----

> ----- begin opts_exclus
> ive -----
      - version 8.2
      - args opts optname errcode optslab
      - local opts `opts'
      = local opts
      - local n 0
      - while ``opts' != "" {
      = while `"' != "" {
          local ++n
          gettoken item`n' opts : opts, bind
          }
      - if `n' < 2 {
      = if 0 < 2 {
      - exit
-----

> ----- end opts_exclus
> ive -----
      - local K : list sizeof namelist
      - gettoken c_diopts c_opts : namelist
      - opts_exclusive "`coding' `compare'"

```

```

= opts_exclusive " "
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
> _____ end opts_exclus
> ive _____
    - opts_exclusive ``versus' `compare'
    = opts_exclusive " "
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
    = local opts
    - local n 0
    - while ``opts' != "" {
    = while `"' != "" {
        local ++n
        gettoken item`n' opts : opts, bind
    }
    - if `n' < 2 {
    = if 0 < 2 {
    - exit
> _____ end opts_exclus
> ive _____
    - opts_exclusive ``abbrev' `noabbrev'
    = opts_exclusive " "
> _____ begin opts_exclus
> ive _____

```

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `'' != "" {
    local ++n
    gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit
}

> ----- end opts_exclus
> ive -----
- 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')
}
- Wraapon , `fvwraapon'
= Wraapon ,

> _____ begin _get_diopts.Wra
> pon _____
- capture syntax [, W0rd WIdth]
- if c(rc) {
  di as err "invalid fvwraapon() option;"
  syntax [, W0rd WIdth]
  exit 198
}
- opts_exclusive "`word' `width'" fvwraapon
= opts_exclusive " " fvwraapon

> _____ begin opts_exclus
> ive _____
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local n 0
- while ``opts' != "" {
= while `"' != "" {
  local ++n
  gettoken item`n' opts : opts, bind
}
- if `n' < 2 {
= if 0 < 2 {
- exit

> _____ end opts_exclus
> ive _____
- local fvwraapon `word' `width'
= local fvwraapon
- if `:length local fvwraapon' {
= if 0 {
  c_local fvwraapon fvwraapon(`fvwraapon')
}

> _____ end _get_diopts.Wra
> pon _____
- 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.GetDio
> pts _____

    - }
    - 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_dio
> pts _____
```

		Coefficient	Robust std. err.	z	P> z	[95% co
y_timing_max						
n						
f. interval]						
rule_g		.5170282	.1599888	3.23	0.001	.203455
9						
.8306006						
rule_itr		.3213418	.1278465	2.51	0.012	.070767
2						
.5719163						
estimated		.7259468	.1139507	6.37	0.000	.502607
6						
.9492861						
cb_authors_ext#vint_mid						
0 1		-.3364801	.1700483	-1.98	0.048	-.669768
7						
-.0031915						
1 0		.4283556	.1397922	3.06	0.002	.15436
8						
.7023433						
1 1		.2989876	.2469419	1.21	0.226	-.185009
7						
.7829849						
cb_authors_ext#vint_late						
0 1		-.0791568	.1652455	-0.48	0.632	-.40303
2						
.2447184						
1 0		.1978433	.2152487	0.92	0.358	-.224036
3						
.619723						
1 1		0	(omitted)			
cb_authors_ext#vint_early						
0 1		0	(omitted)			
1 0		0	(omitted)			
1 1		0	(omitted)			

	_cons	-1.3015882	.1547709	-1.95	0.051	-.604933
> 7						
>	.0017572					

```

>
- if "`markdown'" != "" {
= if "" != "" {
  set linesize `lsize'
}
- if "`eqselect'" == "" & "`eformnote'" != "noeformnote" {
= if "" == "" & "" != "noeformnote" {
- if ``"eformdi"'" != "" & ("`e(cmd)'" != "gnbreg" | "`e(prefix)'" ==
> "svy") {
= if ``"'" != "" & ("poisson" != "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_ta
> ble _____
- if "`footnote'" == "" {

```

```

        = if "nofootnote" == "" {
            ml_footnote
        }
    }
> ----- end mopt.Disp
> lay -----
    - exit
    -----
> ----- end m
> opt -----
    - exit
    -----
> ----- end
> ml -----
    - _prefix_footnote
    -----
> ----- begin _prefix_footn
> ote -----
    - version 9
    - local is_st = "`e(cmd2)'" == "streg"
    = local is_st = "" == "streg"
    - if `is_st' {
    = if 0 {
        local tropt TR
    }
    - syntax [, deff `tropt' linesize(int 79) * ]
    = syntax [, deff linesize(int 79) * ]
    - if `is_st' & "`e(noeform)'" != "" & "`tr'" != "" {
    = if 0 & `""' != "" & `""' != "" {
        di as smcl as txt "{p 0 6 2}" "Note: Option {res:tr} ignored; " "not
> appropriate with option {res:strata()} or {res:ancillary()}." "{p_end}"
    }
    - local footnote "`e(footnote)'"
    = local footnote `""'
    - gettoken cmd args : footnote, parse(" ,")
    - capture which `cmd'
    = capture which
    - if !c(rc) {
        if `:length local options' {
            `footnote' , `options'
        }
        else {
            `footnote'
        }
    }
    - capture

```

```

- if "`e(prefix)'" == "svy" {
= if "" == "svy" {
    _svy_fpc_note "`deff'" `linesize'
    _svy_subpop_note, linesize(`linesize')
    _svy_singleton_note, linesize(`linesize')
  }
- if inlist("`e(cmd)'", "logit", "logistic", "probit") {
= if inlist("`poisson'", "logit", "logistic", "probit") {
    CompleteLogit
  }
- if inlist("`e(cmd)'", "mlogit", "ologit", "oprobit") {
= if inlist("`poisson'", "mlogit", "ologit", "oprobit") {
    CompleteOlogit
  }
- if "`e(missing)'" == "missing" & inlist("`e(vce)'", "brr", "bootstra
> p", "jackknife") {
  = if "" == "missing" & inlist("robust", "brr", "bootstrap", "jackknife
> ") {
    if "`e(vce)'" == "brr" {
      local vcetype BRR
    }
    else local vcetype `e(vce)'
    if e(N_misreps) == 1 {
      local reps replicate
    }
    else {
      local reps replicates
    }
    if "`e(N_misreps)'" != "" {
      local the `e(N_misreps)'
    }
    else local the "some of the"
    di as txt "{p 0 6 0 `linesize'}" "Note: One or more parameters could
> not be estimated in " "`the' `vcetype' `reps'; " "standard-error estimates
> include only complete replications.{p_end}"
  }
- if inlist("`e(opt)'", "ml", "moptimize") | !missing(e(converged))
> {
  = if inlist("`moptimize'", "ml", "moptimize") | !missing(e(converged))
> {
    - ml_footnote
    _____
> _____ begin ml_footn
> ote _____
    - version 9
    - syntax

```

```

- _check_e_rc


---


> 

---

 begin _check_e
> _rc 

---


- version 11
- syntax [, ignorerc]
- if e(rc) == 504 & inlist("`e(opt)'", "ml", "moptimize") {
= if e(rc) == 504 & inlist("moptimize", "ml", "moptimize") {
di as err "{p 0 0 2}variance matrix missing because `e(user)' fa
> iled" "to compute scores or computed scores with missing values{p_end}"
exit 504
}
- if (`""ignorerc""'==" & !missing(e(rc)) & e(rc) != 0) error e(r
> c)
= if (`""'==" & !missing(e(rc)) & e(rc) != 0) error e(rc)


---


> 

---

 end _check_e
> _rc 

---


- if ``e(converged)"" == "0" {
= if ``1"" == "0" {
di as txt "Warning: Convergence not achieved."
}


---


> 

---

 end ml_footn
> ote 

---


- }
- _check_e_rc


---


> 

---

 begin _check_e
> _rc 

---


- version 11
- syntax [, ignorerc]
- if e(rc) == 504 & inlist("`e(opt)'", "ml", "moptimize") {
= if e(rc) == 504 & inlist("moptimize", "ml", "moptimize") {
di as err "{p 0 0 2}variance matrix missing because `e(user)' fail
> ed" "to compute scores or computed scores with missing values{p_end}"
exit 504
}
- if (`""ignorerc""'==" & !missing(e(rc)) & e(rc) != 0) error e(rc)
= if (`""'==" & !missing(e(rc)) & e(rc) != 0) error e(rc)


---


> 

---

 end _check_e
> _rc 

---




---


> 

---

 end _prefix_footn
> ote 

---



```

```

> _____ end poisson.Disp
> lay _____
  - }
  - error `e(rc)'
  = error 0
  _____

> _____ end poisson.Estim
> ate _____
  - version 10: ereturn local cmdline `"poisson `0'"
  = version 10: ereturn local cmdline `"poisson y_timing_max rule_g rule_itr e
> stimated i.cb_authors_ext#i.vint_mid i.cb_authors_ext#i.vint_late i.cb_au
> thors_ext#i.vint_early if y_timing_max < 99 , vce(robust) nolog"

> _____ end pois
> son _____
- log close
  name: <unnamed>
  log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityo
> fChicago/mmb/output/stepwise_regressions/y_timing_max_nonmod_all.smcl
  log type: smcl
  closed on: 12 Sep 2025, 19:25:26

```
