
```

    name: <unnamed>
    log: /Users/connorbrennan/Library/CloudStorage/OneDrive-TheUniversityof
> fChicago/mmb/output/stepwise_regressions/y_timing_max_nonmod.smcl
    log type: smcl
    opened on: 12 Sep 2025, 19:25:20
- capture ! rm ./output/stepwise_regressions/`depvar'`type'.pdf
= capture ! rm ./output/stepwise_regressions/y_timing_max_nonmod.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)"
Outcomes of bi-directional stepwise regressions with y_timing_max (type = nonm
> od)
- di "*****"
> *****"
*****
> **
- ${reg_`depvar'`type'}
= poisson y_timing_max rule_g rule_itr estimated cb_authors_ext if y_timing_m
> ax < 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 cb_authors_ext if y_timing_max < 99 , vce(robust) nolo
> g

```

```

> ----- 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 cb_authors_ext if y_timing_max < 99 , vce(robust) n
> olog

```

```

> ----- 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 cb_aut
> hors_ext 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 cb_aut
> hors_ext 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
  }
}
- 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  cb_auth
> ors_ext 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  cb_authors_ext if y_t
> iming_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  cb_authors_ext 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 {
            .`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 cb_authors_ext if y_t
> iming_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' {
= 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 [, BOOTstrap 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(`uvcetype') 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 cb_authors
> _ext 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" | _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 "`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 & 17 {
  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 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, `fwwrap'
    }
    - c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `baselevels'
> `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend'
> `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fwwrap
> ' `fwwrapon' `fvlabel' `nocl' `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)
- }
- 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' `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 " "

>
> ive
- version 8.2
- args opts optname errcode optslab
- local opts `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
- opts_exclusive "`coeflegend' `selegend'"
= opts_exclusive " "

>
> ive
- version 8.2
- args opts optname errcode optslab
- local opts `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
- 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` `baselevels`
> `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `coeflegend`
> `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 ``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')
    }
    - 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' `baselevels'
> `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend'
> `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwrap
> ' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
    = c_local DUPS
    - if `K' == 2 {
    = if 2 == 2 {
    - c_local `c_opts' ``options'''
    = c_local options `"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'
- }
}

```

```

> _____ 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) DIFFficult HALFSTEPonly CONSTraints(string) noCNSNOTes COLLlinear
> 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) DIFFficult HALFSTEPonly CONSTrai
> nts(string) noCNSNOTes COLLlinear 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) DIFFficult HALFSTEPonly CONSTraints(string) noCNSNOTes COLLline
> 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_parse
> rse -----
- version 10
- _on_colon_parse `0'
= _on_colon_parse , argopt(CLuster) opt(Hessian OIM Opg NATIVE Robus
> t) :, vce(robust)
}

> ----- begin _on_colon_parse
> 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 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 = 1/5 {
    - 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 "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 "" != "" {
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 `''' != "" {
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_techni
> que _____
_____
> _____ end ml_techni
> 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')"
```

```

- 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

```



```

- 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 cb_authors_ext [] if
> __000000,
    - local xvars `r(varlist)'
    = local xvars rule_g rule_itr estimated cb_authors_ext
    - if "`from'"==" " {
    = if ""==" " {
    - `vv' Ipois `y' `xvars' [`weight'`exp'] if `touse', n(`nobs') mean(`mean'
> ) `constan' `offset'
    = version 18.5, missing: Ipois y_timing_max rule_g rule_itr estimated cb_a
> uthors_ext [] 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 cb_authors_ext 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) 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 "`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')}"; " "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 "`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 " "

>
> ive
    - version 8.2
    - args opts optname errcode optslab
    - local opts `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 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')
    }
- 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' `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 fvlable nofvlable
    }
    else {
        local fvlable fvlable
    }
}

- _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("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`cimatr
> ix'"!="") {
        = 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 isvalid
        capture matrix `pmat' = `pmatrix'
        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: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 "`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 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' `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 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')
}
- 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' `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 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 "`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(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' `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 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')
    }
    - 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' `basele
> 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' `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 "`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')
}
- 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 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 NOSH hr 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 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
- }
- 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(`"'efor
> 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 `''' == "" & ``212''' != "" {
    - capture confirm integer number `e(df_r)''
    = capture confirm integer number 212
    - if !c(rc) {
    - local gdof dof(`e(df_r)')
    = local gdof dof(212)
    - }
    - capture
    - }
    - else local gdof ``dof'''
    = else local gdof `'''
    - local glevel `level'
    = local glevel 95
    - local lopt level(`glevel')
    = local lopt level(95)
    - if (``diparm''' == "") exit
    = if (``''' == "") exit


---


> _____ end _get_diparmopts.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' `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 fvwraon() option;"
  syntax [, W0rd WIdth]
  exit 198
}
- opts_exclusive "'word' 'width'" fvwraon
= opts_exclusive " " fvwraon

```

> _____ begin opts_exclus

> ive _____

```

- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local 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 __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' `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 ``' == "" {
        - 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 "`\lststretch' \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'

```

```

= Wraapon ,
> _____ 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' `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')-lngamma(`y'+1) `if'
= qui gen double __00000A = y_timing_max*(__000004+__000009)-exp(__000
> 004+__000009)-lngamma(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 cb
> _authors_ext [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) fvwrap(1)

```

```

> ----- begin _get_diopts.GetDio
> pts -----
- local DIOPTS Level(cilevel) vsquish NOALLBASElevels ALLBASElevel
> s NOBASElevels BASElevels noCNSReport FULLCNSReport NOEMPTYcells EMPTYcells
> NOOMITtd OMITtd 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 NOOMITtd OMITtd 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 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')}"; " "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 "`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 fvwraupon `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 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'" == "" {
    = 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 [, 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, `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 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 ) fwrap(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) fwwrap(passthru)
  }
  - if "`e(mi)'"=="mi" {
= if ""=="mi" {
    local dftable DFTable
    local dfonly DFONLY
    local noclustreport NOCLUSTReport
    local pisematrix PISEMATrix(string)
  }
  - syntax [, cmdextras BMATrix(string) VMATrix(string) EMATrix(string)
> ) DFMATrix(string) EQMATrix(string) ROWMATrix(string) CIMATrix(string) 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') `fwwrap'"
    local fwwrap fwwrap(`wrap')
  }
  - if "`nolabel'"`label'" != "" {
= if "" != "" {
    opts_exclusive "`nolabel' `label'"

```

```

    opts_exclusive "`nofvlabel' `fvlabel'"
    opts_exclusive "`nolabel' `fvlabel'"
    opts_exclusive "`nofvlabel' `label'"
    if "`nolabel'" != "" {
        local fvlabel nofvlabel
    }
    else {
        local fvlabel fvlabel
    }
    _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 ("`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' = `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 `invalid' = 1
mata: _is_in_0_1void("`pmat'", "`invalid'")
if (`invalid'==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 invalid

```



```

capture matrix `cimat' = `cimatrix'
local rc = _rc
if (`rc') {
display as error "invalid {bf:cimatrix()}"
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 ) 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("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 `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 `", 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')
}
- 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'" 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')}"; " "nonne
> gative integer required{p_end}"
        exit 198
    }
}

```

```

> _____ end _get_diopts.FVW
> rap _____
      - }
      - 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' `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 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 CITYYPE(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 CITYYPE(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 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 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' `basel
> evels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coefle
> gend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `
> fwwrap' `fwwrapon' `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' `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 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 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')

```



```

    }
    - 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'
    = 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' `fvwraon' `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')
    }
    - 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 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' `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 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 NOOMITtd OMITtd 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 NOOMITtd OMITtd 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')
}
- 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 " " fvwraon

```

> _____ begin opts_exclus

```

> ive
- version 8.2
- args opts optname errcode optslab
- local opts `opts'
= local opts
- local 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' `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__) options
= _get_eformopts , eformopts() allowed(__all__) options

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 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 `''' == "" & `212''' != "" {
    - capture confirm integer number `e(df_r)'
    = capture confirm integer number 212
    - if !c(rc) {
    - local gdof dof(`e(df_r)')
    = local gdof dof(212)
    - }
    - capture
    - }
    - else local gdof ``dof'''
    = else local gdof `'''
    - local glevel `level'
    = local glevel 95
    - local lopt level(`glevel')
    = local lopt level(95)
    - if (``diparm''' == "") exit
    = if (``''' == "") exit
    _____

> _____ end _get_diparmopts.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, `GTOPTS'
    while `:length local rest' {
      local ++k
      local diparm`k' : copy local diparm
      gettoken COLON rest : rest, `GTOPTS'
      gettoken diparm rest : rest, `GTOPTS'
    }
    local ++k
    local diparm`k' : copy local diparm
    local ++i
    local diparm ``e(diparm`i)''
  }
}
- if `:length local options' {
= if 0 {
  local 0 `", `options''
  syntax [, diparm(string asis) *]
  if `k' & `:length local diparm' {
    local ++k
    local diparm`k' __sep__
  }
  while `:length local diparm' {
    gettoken diparm rest : diparm, `GTOPTS'
    while `:length local rest' {
      local ++k
      local diparm`k' : copy local diparm
      gettoken COLON rest : rest, `GTOPTS'
      gettoken diparm rest : rest, `GTOPTS'
    }
    local ++k
    local diparm`k' : copy local diparm

```

```

        local 0 `", `options'""
        syntax [, diparm(string asis) *]
    }
}
- if "`markdown'" != "" {
= if "" != "" {
    local lsize = c(linesize)
    set linesize 255
}
- `vv' mata: _coef_table()
= version 11, missing: mata: _coef_table()
_____
> _____ begin _get_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' `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')
    }
- 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 __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' `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')
    }
- Wraupon , `fvwraupon'
= Wraupon ,

```

> _____ 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')
}
- 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' `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 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_iform `r(k_iform)'
      if ("`k_iform'" == "") {
        local k_iform = 1
      }
      local k_eq `e(k_eq)'
      if ("`k_eq'" == "") {
        local k_eq = 1
      }
      if (`k_iform' < `k_eq' & `k_iform') {
        if ("`e(cmd2)'" == "stintreg" | "`e(cmd2)'" == "streg") & ("`e(cmd
> )" == "weibull" | "`e(cmd)'" == "gompertz") {
        }
        else {
          _eform_multeq_note efnote : `k_iform' ``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' `llo' `negh'
> `moptobj'
= version 18.5, missing: ml model e2 poiss_lf (y_timing_max: y_timing_max
> = rule_g rule_itr estimated cb_authors_ext, ) [] if __000000, collinear mis
> sing max nooutput nopreserve nolog vce(robust) title(Poisson regres
> sion) init(__000004) search(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 cb_authors_ext, ) [] if __000000, collinear missing max nooutput n
> opreserve nolog vce(robust) title(Poisson regression) init(__000
> 004) search(off) lf0(1 -420.2971615663282) 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 cb_authors_ext, ) [] if __000000, collinea
> r missing max nooutput nopreserve nolog vce(robust) title(Poisson r
> egression) 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 `''' == "" & `212''' != "" {
    - capture confirm integer number `e(df_r)''
    = capture confirm integer number 212
    - if !c(rc) {
    - local gdof dof(`e(df_r)')
    = local gdof dof(212)
    - }
    - capture
    - }

```

```

- else local gdof ``dof'''
= else local gdof `'''
- local glevel `level'
= local glevel 95
- local lopt level(`glevel')
= local lopt level(95)
- if (``diparm''' == '') exit
= if (``''' == '') exit

```

```

> _____ end _get_diparmopts.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') `syntaxonly' `goptions'
  local diparm`k' ``diparm'''
  local diparmopts ``diparmopts' : `diparm'''
  if `single' | ``:list retok after''' == "" {
    local 0 `", `options'''
    syntax [, diparm(string asis) * ]
  }
  else {
    local diparm ``after'''
  }
}
- if ``soptions''' == "" {
= if ``soptions''' == "" {
  syntax [, diparm(string asis) ]
}
- if (``execute''' == "") {
= if ("" == "") {
- sreturn clear

```

```

- sreturn local options ``options'''
= sreturn local options "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 78 {
    - 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 cb_authors_ext,  )"),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 cb_authors_ext,  )'")
        - if bsubstr("`p2'",1,1) == "," {
        = if bsubstr("y_timing_max: y_timing_max = rule_g rule_itr estimated
> cb_authors_ext,  )",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 cb_au
> thors_ext,  )'" == "()" {
                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 FREEParam) 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 rmcoll_opts {
  .rmcoll_opts.addopt `opt', passthru
}
- local i 0
- foreach opt of local rmdcoll_opts {
  .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 cb_authors_ext, ) []

> _____ 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 cb_authors_ext, ) []'', parse(",()[]")
    - local rebind = ``1'' != "(" & ``2'' == "("
    = local rebind = ``( '' != "(" & ``y_timing_max: y_timing_max = rul
> e_g rule_itr estimated cb_authors_ext'' == "("
    - }
    - 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 {
-ininstance:
-      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(600000265040):y_timing_max: y_timing_max
> = rule_g rule_itr estimated cb_authors_ext
> _____ begin _eqspec.pa
> rse _____
    - version 9.2
    - _on_colon_parse `0'
    = _on_colon_parse __key(600000265040):y_timing_max: y_timing_max
> = rule_g rule_itr estimated cb_authors_ext
> _____ 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(600000265040)'' == ":" {
        sreturn local after ```after''
        exit
    }
    - while ```COLON'' != ":" & ```after'' != "" {
    = while ``'' != ":" & ``:y_timing_max: y_timing_max = rule_g r
> ule_itr estimated cb_authors_ext'' != "" {
    - 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 cb_authors_ext''' != "" {
    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(600000265040)'''
- sreturn local after ``after'''
= sreturn local after `y_timing_max: y_timing_max = rule_g ru
> le_itr estimated cb_authors_ext'''
_____
> _____ end _on_colon_pa
> rse _____
    - local ol `s(before)'
    = local ol __key(600000265040)
    - 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 FREEParm
    - }
    - local optlist `optlist' `.options['i']'
    = local optlist NOCONSTant FREEParm 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 cb_authors_ext'''
- if ```.wtypes''' != "" {
= if `''' != "" {
    local wgt "['.wtypes']"
    }
- syntax [anything(equalok)] [if] [in] `wgt' [, `OPTLIST' `NOCON
> S' *]
= syntax [anything(equalok)] [if] [in] [, NOCONSTant FREEParam 0
> FFset(passthru) EXPosure(passthru) *]
- local HOLDIF ``if'''
= local HOLDIF `'''
- local HOLDIN ``in'''
= local HOLDIN `'''
- if ``wgt''' != "" & ``weight''' != "" {
= if "" != "" & "" != "" {
    local HOLDWGT ``['weight'`exp']'''
    }
- gettoken NAME REST : anything, parse(":")
- if trim("`NAME'") == ":" {
= if trim("y_timing_max") == ":" {
    di as err "nothing found where equation name expected"
    exit 198
    }
- if `:list sizeof REST' {
= if 7 {
- if strpos("`NAME'", ":") {
= if strpos("`y_timing_max'", ":") {
    capture _msparse `NAME'
    if c(rc) {
    di as err "{bf:`NAME'} invalid equation specification"
    exit 198
    }
    }
- else {
- . _confirm_eqname `NAME'
= . _confirm_eqname y_timing_max

```

```

> _____ begin _eqspec._confirm_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 cb_authors_ext'"' == "" {
        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 4 {

```

```

- fvunab INDEPVARs : `INDEPVARs'
= fvunab INDEPVARs : rule_g rule_itr estimated cb_authors_ext
> _____ begin fvu
> nab _____
- version 11
- _on_colon_parse `0'
= _on_colon_parse INDEPVARs : rule_g rule_itr estimated cb_authors_ext
> thors_ext
> _____ begin _on_colon_parse
> 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 cb_authors_ext
> ors_ext' != "" {
- 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 cb_authors_ext
> ors_ext' != "" {
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 cb_autho

> rs_ext"

> _____ 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 cb_authors_ext"
    - 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 cb_authors_ext
    - local n : list sizeof varlist
    - if (`min' <= `n' & `n' <= `max') exit
    = if (1 <= 4 & 4 <= 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 = ``DEPVAR``
    = .depvars = `y_timing_max`
    - .hasequal = `hasequal`
    = .hasequal = 1
    - .indepvars = ``:list retok INDEPVAR``
    = .indepvars = `rule_g rule_itr estimated cb_authors_ext`
    - .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 MARKOPLIST ``.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.arrels' {
    = 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.arrels' {
    = 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 FREEparm OPTions ]
- if c(rc) error 198
- if `:list sizeof other' {
= if 0 {
  local other other_markvars
}
- local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
= local item indepvars
- if `:list sizeof item' != 1 {
= if 1 != 1 {
  error 198
}
- c_local `c_item' `item'
= c_local item indepvars
}

> _____ end _eqspec._check_eq_item_n
> ame _____
- local value ```.`item''''
= local value "rule_g rule_itr estimated cb_authors_ext"
- sreturn local value ``value'''
= sreturn local value "rule_g rule_itr estimated cb_authors_e
> xt"
- class exit ``value'''
= class exit "rule_g rule_itr estimated cb_authors_ext"

```

```

> _____ end _eqspec.i
> tem _____
    - class exit ``s(value)''
    = class exit "rule_g rule_itr estimated cb_authors_ext"
    _____
> _____ end _eqlist
> .eq _____
    = local xvarsi "rule_g rule_itr estimated cb_authors_ext"
    - 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 FREEParam OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `o
> ther' `nocons' `offset' `exposure' `freeparm' `options'
    = local item nocons
    - if `:list sizeof item' != 1 {

```

```

        = if 1 != 1 {
            error 198
        }
        - c_local `c_item' `item'
        = c_local item nocons
    _____
> _____ end _eqspec._check_eq_item_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 = + 4
    - if ``noconsi``` == "0" {
    = if "0" == "0" {
    - local ++dim
    - }
    - }
    - sreturn local value ```.dim```
    = sreturn local value ``5```
    - class exit ```.s(value)```
    = class exit ``5```
    _____
> _____ end _eqlist.
> dim _____
    = global ML_dim = 5
    - 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 FREEparm OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
        local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `nocons' `offset' `exposure' `freeparm' `options'
    = local item name
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {

```



```

        error 198
    }
    - c_local `c_item' `item'
    = c_local item name
    _____
> _____ end _eqspec._check_eq_item_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 cb_authors_ext"
- sreturn local value ```.`value'```
= sreturn local value `"rule_g rule_itr estimated cb_authors_ext
> ""
- class exit ```.`value'```
= class exit `"rule_g rule_itr estimated cb_authors_ext"
_____
> _____ end _eqspec.i
> tem _____
- class exit ```.s(value)```
= class exit `"rule_g rule_itr estimated cb_authors_ext"
_____
> _____ end _eqlist

```

```

> .eq
    = fvexpand rule_g rule_itr estimated cb_authors_ext 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 cb_authors_ext"
    - 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 FREEParam OPTions ]
    - if c(rc) error 198
    - if `:list sizeof other' {
    = if 0 {
      local other other_markvars
    }
    - local item `name' `depvars' `indepvars' `if' `in' `wgt' `oth
> er' `nocons' `offset' `exposure' `freeparm' `options'
    = local item      nocons
    - if `:list sizeof item' != 1 {
    = if 1 != 1 {

```

```

        error 198
    }
    - c_local `c_item' `item'
    = c_local item nocons
    _____
> _____ end _eqspec._check_eq_item_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 = 1/4 {
    - 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:cb_authors_ext'''
    - }

```



```

- 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:cb_authors_ext y_timing_max:_cons''
- }
- if ``moptobj'' != "" {
= if "" != "" {
  if ``eq_offset`i'' != "" {
    if usubstr("`eq_offset`i'",1,2)=="__" {
      capture clonevar `moptobj'`eq_offset`i' = `eq_offset`i'
      local dropmetoo `dropmetoo' `moptobj'`eq_offset`i'
    }
  }
}
- }
- if ``moptobj'' != "" {
= if "" != "" {
  foreach y of local lhs {
    if usubstr("`y'",1,2)=="__" {
      capture clonevar `moptobj'`y' = `y'
      local tmp `tmp' `moptobj'`y'
      local dropmetoo `dropmetoo' `moptobj'`y'
    }
    else {
      local tmp `tmp' `y'
    }
  }
  local lhs `tmp'
}
- if `waldtest' > 0 & `:length local lf0' {
= if -1 > 0 & 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(1,5,0)
- matrix colna `b0' = `colna'
= matrix colna __000007 = y_timing_max:rule_g y_timing_max:rule_itr
> y_timing_max:estimated y_timing_max:cb_authors_ext 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 matout 0 : 0, parse(", ")
- if "`matout'"==" | "`matout'"==" ," {
= if "__000007"==" | "__000007"==" ," {
    error 198
}
- syntax [, FROM(str) UPdate COLnames(str) ERRor(str) FIRST ]
- if "`update'"!=" {
= if "update"!=" {
- if "`colname'"!=" {
= if ""!=" {

```

```

        di in red "update and colnames() cannot both be " "specified"
        exit 198
    }
    - capture local colname : colfullnames `matout'
    = capture local colname : colfullnames __000007
    - if _rc {
        di in red "matrix `matout' not found"
        exit 111
    }
    - if rowsof(matrix(`matout')) != 1 {
    = if rowsof(matrix(__000007)) != 1 {
        di in red "`matout' matrix to be updated must be " "a row vector
> "

        exit 503
    }
    - local matin `matout'
    = local matin __000007
    - }
    - if ```error'``!=`` {
    = if `"initial vector"``!=`` {
    - local error ```error': ``'
    = local error `"initial vector: ``'
    - }
    - tempname mat
    - if ```from'``!=`` {
    = if `__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:cb_authors_ext y_timing_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:cb_authors_ext 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(1,5,0)
    - local i 1
    - while `i' <= `dim' {
    = while 1 <= 5 {
    - 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 `filll'[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 `filll'[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 <= 5 {
- 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 <= 5 {
- 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 <= 5 {
- 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 "_:cb_authors_ext"
- if (usubstr("`eq'",1,1) != "/") {
= if (usubstr("_",1,1) != "/") {
- local sspec "/"`eq':`name'"
= local sspec "/_:cb_authors_ext"
- }
- }
- local oname
- local ospec
- capture _msparse `name', noomit
= capture _msparse cb_authors_ext, noomit
- if c(rc) == 0 {
- if r(omit) {
  local oname ``r(stripe)''
  local ospec "`eq':`oname'"
}
- }
- `vv' local j = colnumb(`new',``spec'')
= version 18.5: local j = colnumb(__000009,`_:cb_authors_ext')
- if `j' == . & "`oname'" != "" {

```

```

= if 4 == . & "" != "" {
  `vv' local j = colnumb(`new', ``ospec'')
}
- if `j' == . & "sspec" != "" {
= if 4 == . & "/_:cb_authors_ext" != "" {
  `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 <= 5 {
- 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 ":_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 5 == . & "" != "" {
    `vv' local j = colnumb(`new',``ospec'')
  }
- if `j' == . & ``sspec'" != "" {
= if 5 == . & "/_:_cons" != "" {
    `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 <= 5 {
    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'
      }
    }
  }
  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']
}

```

> found''


```

        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 5
    - }
    - }
    - }
    - 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 "5"!=" " {
- sret local k_fill `fill'
= sret local k_fill 5
- }
- 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(1,5,0)
- matrix colna `bomit' = `colna'
= matrix colna __000008 = y_timing_max:rule_g y_timing_max:rule_itr
> y_timing_max:estimated y_timing_max:cb_authors_ext 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'
local clist : subinstr local constraints "," " ", all
`vv' makecns `clist', `cnsnotes'
local constraints ``"r(clist)'"
local k_autoCns = e(k_autoCns)
tempname C
capture matrix `C' = e(Cns)
local rcc = c(rc)
}
local rc = c(rc)
ereturn clear
}
if (`rc') exit `rc'
if (`rcc') {
local C
local k_autoCns
}
}
- if `:length local constraints' {
= if 0 {

```

```

        local lf0
    }
    - local vce `vce' `robust' `cluster'
    = local vce vce(robust)
    - 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(CLister) 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(CLister) 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
= .__000009 = ._optlist.new
- local optlist : list uniq optlist
- foreach name of local optlist {
- .`o'.addopt `name'
= .__000009.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'
    = .__000009.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'
    = .__000009.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
= __00000A = ._optlist.new
- local argoptlist : list uniq argoptlist
- foreach name of local argoptlist {
- .`a'.adopt `name'
= __00000A.adopt CCluster
}
> _____ begin _optlist.add
> opt _____
- version 9
- syntax name(name=optspec) [, PASSthru]
- local mname = lower("`optspec'")
= local mname = lower("CCluster")
- if "`passthru'" != "" {
= if "" != "" {
    local optspec `optspec'(passthru)
  }
- .options.Arrpush "`optspec'"
= .options.Arrpush "CCluster"
- .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 __000009 __00000A , 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.arrnels' {
= forval i = 1/1 {
- local optlist `optlist' `.options['i']'
= local optlist CLuster
- }
- local optlist : list uniq optlist
- sreturn local optlist ```optlist'''
= sreturn local optlist ``CLuster''
- class exit ```optlist'''
= class exit ``CLuster''

> _____ end _optlist.dumpopti
> ons _____
= local OPTSPECS ``OIM OPG Robust CLuster''
- local OPTNAMES ```. `0'.dumpnames' `.`A'.dumpnames'''

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

```

```

- class exit ``namelist'''
= class exit "oim opg robust"

> _____ end _optlist.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 confirmname 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
> LOg LOg 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 __000000 = __00000I
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000J==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
    = qui replace __00000M = y_timing_max - exp(__000000) if __00000
> 5
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000J __00000K = __00000M
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000J==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __00000J __00000L = exp(__000000)
    _____
> _____ end poiss
> _lf _____
_____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __000000 = __00000I
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000J==. {
        - exit
    }
    _____
> _____ end poiss

```

```

> _lf _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __000000 = __00000I
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsum __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000J==. {
    - exit
    _____
> _____ end poiss
> _lf _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __000000 = __00000I
    - mlsum `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsum __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 2 == 0 | __00000J==. {
        exit
    }
    - qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
    = qui replace __00000M = y_timing_max - exp(__000000) if __00000
> 5
    - $ML_ec mlvecsum `lnf' `g' = `score'
    = * mlvecsum __00000J __00000K = __00000M
    - if `todo' == 1 | `lnf'==. {
    = if 2 == 1 | __00000J==. {
        exit
    }
    - mlmatsum `lnf' `H' = exp(`xb')
    = mlmatsum __00000J __00000L = exp(__000000)
    _____
> _____ end poiss

```



```

> _lf _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __000000 = __00000I
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000J==. {
    - exit
    _____
> _____ end poiss
> _lf _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __000000 = __00000I
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)
    - if `todo' == 0 | `lnf'==. {
    = if 0 == 0 | __00000J==. {
    - exit
    _____
> _____ end poiss
> _lf _____
> _____ begin poiss
> _lf _____
    - version 6
    - args todo b lnf g H score
    - tempvar xb
    - mlevel `xb' = `b'
    = mlevel __000000 = __00000I
    - mlsun `lnf' = -exp(`xb') + `xb'*$ML_y1 - lngamma($ML_y1+1)
    = mlsun __00000J = -exp(__000000) + __000000*y_timing_max - lnga
> mma(y_timing_max+1)

```

```

- if `todo' == 0 | `lnf'==. {
= if 2 == 0 | __00000J==. {
  exit
}
- qui replace `score' = $ML_y1 - exp(`xb') if $ML_samp
= qui replace __00000M = y_timing_max - exp(__000000) if __00000
> 5

- $ML_ec mlvecsum `lnf' `g' = `score'
= * mlvecsum __00000J __00000K = __00000M
- if `todo' == 1 | `lnf'==. {
= if 2 == 1 | __00000J==. {
  exit
}
- mlmatsum `lnf' `H' = exp(`xb')
= mlmatsum __00000J __00000L = exp(__000000)

> _____ 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 __00000Q = __000005
- }
- ereturn post `b' `V' `C' `wtg', esample(`esamp') depname(`depv
> ar') buildfvinfo
= ereturn post __000000 __00000P [], esample(__00000Q) 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 __00000Q = get(Cns)
- if (c(rc)) local cns
- if "`cns'" != "" {
= if "" != "" {
  local k_autoCns = e(k_autoCns)
  if missing(`k_autoCns') {
    local k_autoCns 0
  }
  if rowsof(`cns') == `k_autoCns' {
    local cns
  }
}
- if "`svy'" != "" & "`adjust'`svyadjust'" != "" {
= if "" != "" & "" != "" {
  local adjust nosvyadjust
}
- else local adjust
- _ms_omit_info e(b), nocons
- matrix `omit' = r(omit)
= matrix __00000R = 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''''
  }
- 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 : subinstr local exp "=" "=", count(local n
> ch) all

- if `nch' <= 1 {
= if 0 <= 1 {
- return local explist ``exp'
= return local explist ``[#1]'
- return local nexpt 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 __00000S = r(chi2)
- scalar `df1' = r(df)
= scalar __00000T = r(df)
- scalar `p' = r(p)
= scalar __00000U = r(p)
- scalar `drop' = r(drop)
= scalar __00000V = r(drop)
- }
- local i 1
- while "`r(dropped_`i')'" != "" {
= while "" != "" {
  local dropped_`i' `r(dropped_`i')'
  local ++i
}
- if `svy_adjust' {
= if 0 {
  if "`df'" != "" {
    local svy_d = `df'
  }
  else if !missing(e(df_r)) {
    local svy_d = e(df_r)
  }
  else local svy_d = e(N_psu)-e(N_strata)
  if missing(`svy_d') {
    di as err "internal error in adjustment for svy"
    exit 10001
  }
  if "`testtype'" == "F" {
    scalar `F' = ((`svy_d'-`df1'+1)/`svy_d') * `F'
  }
  else {

```

```

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

```

```

- local i 1
- while "`dropped_`i'" != "" {
= while "" != "" {
    di as txt "          Constraint `dropped_`i' dropped"
    local ++i
  }
- if "`mtmethod'" == "" {
= if "" == "" {
- di
- if "`testtype'" == "chi2" {
= if "chi2" == "chi2" {
- di as txt _col(12) "chi2(" %3.0f `df1' ") =" as res %8.2f
> `chi2'
= di as txt _col(12) "chi2(" %3.0f __00000T ") =" as res %8.
> 2f __00000S
- di as txt _col(10) "Prob > chi2 = " as res %8.4f `p'
= di as txt _col(10) "Prob > chi2 = " as res %8.4f __00000U
- }
- 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 = __00000U
- return scalar df = `df1'
= return scalar df = __00000T
- if ``testtype'" == "F" {
= if "chi2" == "F" {
return scalar F = `F'
return scalar df_r = `df2'
}
- else return scalar chi2 = `chi2'
= else return scalar chi2 = __00000S
- return scalar drop = `drop'
= return scalar drop = __00000V
- local i 1
- while ``dropped_`i'"" != "" {
= while "" != "" {
return scalar dropped_`i' = `dropped_`i'
local ++i
}
- if ``mtmethod'" != "" {
= if "" != "" {
return matrix mtest `tm'
return local mtmethod `mtmethod'
}
}

> _____ end test.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 0 {
  local drop 0
  local i 1
  local idrop ``r(dropped_`i')'''
  while ``idrop' != "" {
    if !`omit'[1,`idrop'] {
      local ++drop
    }
    local ++i
    local idrop ``r(dropped_`i')'''
  }
}
- if `drop' == 0 | ``cns' != "" {
= if 0 == 0 | "" != "" {
- if !missing(e(df_r)) {
  ereturn scalar F = r(F)
}
- else {
- ereturn scalar chi2 = r(chi2)
- ereturn local chi2type Wald
- }
- ereturn scalar p = r(p)
- }
- else {
  if !missing(e(df_r)) {
    ereturn scalar F = .
  }
  else {
    ereturn scalar chi2 = .
    ereturn local chi2type Wald
  }
  ereturn scalar p = .
}
- }
- else {
  if missing(e(df_r)) {
    ereturn local chi2type Wald

```

```

    }
    ereturn scalar df_m = 0
  }
}

> ----- end _prefix_model_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 .1258544836428726
    - global S_E_nobs = e(N)
    - global S_E_tdf = e(N)
    - global S_E_off `e(offset)'
  = global S_E_off
    - global S_E_depv `e(depvar)'
  = global S_E_depv y_timing_max
    - global S_E_cmd `e(cmd)'
  = global S_E_cmd poisson
    - if "`display'"=="" {

```

```

= if ""="" {
- 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' `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')
}
- 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` `baselevel
> s` `cnsreport` `fullcnsreport` `emptycells` `omitted` `lstretch` `coeflegend
> ` `selegend` `cformat` `sformat` `pformat` `coding` `versus` `compare` `fvwr
> ap` `fvwrapon` `fvlabel` `nocl` `nopvalues` `markdown` `citype` `abbrev`
    = c_local diopts
    - if `K` == 2 {
    = if 2 == 2 {
    - c_local `c_opts` ``options``
    = c_local options ``
    - }
    - sreturn local coding `coding`
    = sreturn local coding
    - sreturn local versus `versus`
    = sreturn local versus
    - sreturn local compare `compare`
    = sreturn local compare
    - sreturn local level `level`
    = sreturn local level 95

> ----- end _get_diopts.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 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' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fwr
> ap' `fwwrapon' `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
>
> 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 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' `baselevel
> s' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coeflegend
> ' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare' `fvwr
> ap' `fvwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbrev'
= c_local DUPS
- if `K' == 2 {
= if 1 == 2 {
  c_local `c_opts' ``options'''
}
- sreturn local coding `coding'
= sreturn local coding
- sreturn local versus `versus'
= sreturn local versus
- sreturn local compare `compare'
= sreturn local compare
- sreturn local level `level'
= sreturn local level 95

> _____ end _get_diopts.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 = `5'
    - }
    - sreturn local `sname' = ``S_`sname''
    = sreturn local k = `5'
    - }
    _____
> _____ 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(svym1)'" != "" | "`e(prefix)'" == "svy" {
    = if "" != "" | "" == "svy" {
        _prefix_display `0'
        exit
    }
    - syntax [, Level(cilevel) Plus 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 ALLBASEle
> 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')
    }
- 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'" 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 "" != "" {
  FWrap, `fwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fwrap' `fwrapon' `fvlabel' `nocl' `nopvalues' `markdown' `citype' `abbre
> v'

= c_local 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')
}
- Wraon , `fvwraon'

```

```

= Wraapon ,
> _____ begin _get_diopts.Wra
> pon _____
    - capture syntax [, W0rd WIdth]
    - if c(rc) {
      di as err "invalid fwraapon() option;"
      syntax [, W0rd WIdth]
      exit 198
    }
    - opts_exclusive "`word' `width'" fwraapon
= opts_exclusive " " fwraapon
> _____ begin opts_exclus
> ive _____
    - version 8.2
    - args opts optname errcode optslab
    - local opts `opts'
= local opts
    - local 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 fwraapon `word' `width'
= local fwraapon
    - if `:length local fwraapon' {
= if 0 {
      c_local fwraapon fwraapon(`fwraapon')
    }
> _____ end _get_diopts.Wra
> pon _____
    - if "`fwwrap'" != "" {
= if "" != "" {
      FWWrap, `fwwrap'
    }
    - 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' `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 "`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 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' `bas
> elevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `coef
> legend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compare'
> `fwwrap' `fwwrapon' `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 = ``5''
    - }
    - sreturn local `sname' = ``S_`sname''''
    = sreturn local k_fill = ``5''
    - }
    - 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 ``options'" != "" {
= if "options" != "" {
- syntax [, EForm1(passthru) EForm `EFALL' * ]
= syntax [, EForm1(passthru) EForm NOHR hr NOSHR shr or IRr RRr
> tr TRatio * ]
- local opts ``options'"
= local opts `"'
- local 0 , `eform1' `eform' `nohr' `hr' `noshr' `shr' `or' `irr
> ' `rrr' `tr' `tratio'
= local 0 ,
- }
- if ``allowed'" == "__all__" {
= if "__all__" == "__all__" {
- local allowed `EFALL'
= local allowed NOHR hr NOSHR shr or IRr RRr tr TRatio
- }
- foreach ef of local allowed {
- capture confirm name `ef'
= capture confirm name NOHR
- if _rc {
di as err "`ef' is not a valid name"
exit 198
}
- local efopts `efopts' `=lower("`ef'"')
= local efopts nohr
- }
- capture confirm name `ef'
= capture confirm name hr
- if _rc {
di as err "`ef' is not a valid name"
exit 198
}
}

```

```

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

```

```

= local efopts nohr hr noshr shr or irr rrr
- }
- capture confirm name `ef'
= capture confirm name tr
- if _rc {
  di as err "`ef' is not a valid name"
  exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr
- }
- capture confirm name `ef'
= capture confirm name TRatio
- if _rc {
  di as err "`ef' is not a valid name"
  exit 198
}
- local efopts `efopts' `=lower("`ef'")'
= local efopts nohr hr noshr shr or irr rrr tr tratio
- }
- local efopts : list uniq efopts
- syntax [, EForm1(string) EForm `allowed' ]
= syntax [, EForm1(string) EForm NOHR hr NOSHR shr or IRr 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_nuncensored = 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 xtoprobit 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'.lalignr = `head2left'
    }
    - if ("`head2right'" != " ") {
    = if (" " != " ") {
        .`obj'.ralignr = `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 ``4'''
_____
> _____ end _coef_table__header.Sca
> lar _____
= if missing(4) {
  exit
}
- if ```.Macro chi2''' != "" | ```.Macro df_r''' == "" {
  _____
> _____ begin _coef_table__header.Ma
> cro _____
- version 16
- class exit ```.result'(`0')'''
= class exit ``86.16008814305715'''
_____
> _____ 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 ``86.16008814305715''' != "" | `''' == "" {
- .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("4")
- if !missing(e(chi2)) {
- .PushRight ``type' chi2({res:`didf'})" " = " "as res" %`
> .c4wfmt'.2f e(chi2)
= .PushRight "Wald chi2({res:4})" " = " "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 direst = ustrltrim("` : di `rest'")
= local direst = ustrltrim("      86.16")
- .ralignr = max(`.ralignr', udstrlen("`direst'))
= .ralignr = max(3, udstrlen("86.16"))
- local len : di ``tok'
= local len : di `"Wald chi2({res:4})"
- 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:4}})" `\.C4' " = " as res "{ralign `\.ralignr':86.16}"
- }
- 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))


---


> 

---


> 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(5, 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 `lalignr':`direst'}"
      = .right.Arrpush `C3' ``{lalign `lalignr':Prob > chi2}
> "" `.C4' " = " as res "{ralign `lalignr':0.0000}"
      - }
      - else if `:length local tok' {
      = else if 11 {
        .right.Arrpush `C3' ``tok'""
      }
      - else {
        .right.Arrpush
      }


---


> 

---


> 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(" 0.1259")
        - .ralignr = max(`.ralignr', udstrlen("`direst"))
        = .ralignr = max(6, udstrlen("0.1259"))
        - 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 \`.ralignr':`direst}'"

```

```

= .right.Arrpush `.C3' ``{lalign `.lalignr':Pseudo R2}``` `
> .C4' " = " as res "{ralign `.ralignr':0.1259}"
- }
- 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.arrnels' {
= 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'"
.left.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("`-367.400879320833'"') & !missing
> (`"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.FillL
> 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("-367.40088")
      - local len : smcllength local direst
      - .ralignla = max(`.ralignla', `len')
      = .ralignla = max(0, 10)
      - local len : di `"'tok'"'
      = local len : di `"Log pseudolikelihood"'
      - local len : smcllength local len
      - .lalignla = max(`.lalignla', `len')
      = .lalignla = max(0, 20)
      - .left.Arrpush `C1' `{lalign `lalignla':`tok'}" `\'
> C2a' "'eq'" `dias' "{ralign `lalignla':`direst'}"
      = .left.Arrpush `C1' `{lalign `lalignla':Log pseudolike
> lihood}" `C2a' " = " as res "{ralign `lalignla':-367.40088}"
      - }
      - 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:4})}"' _col(70) " = " as res "{ralign 6:86.16}"
Wald chi2(4) =    86.16
- }
- 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:-367.40088}" as txt _col(57) `{la
> lign 13:Pseudo R2}' _col(70) " = " as res "{ralign 6:0.1259}"
Log pseudolikelihood = -367.40088 Pseudo R2 = 0.1259
      - }
> _____ 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__hea
> 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) NOMCLEGen 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 fvlable fvlable
        }
    }
    - _novce_other_mats, cimatrix("`cimatrix'") pmatrix("`pmatrix'")
> tsmatrix("`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) TSMATr
> ix(string) NOCI NOPValues dfci DFPValues cidisjoint ]
    - if ("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`ci
> matrix'"!=" & "`noci'"!=") {
        = if ("==" & "==" & "matrix"==" & "!=" & "!=") {
            sreturn local cimatrix "empt"
        }
        - if ("`pmatrix'"=="" & "`tsmatrix'"!=" & "`e(V)'"=="" & "`ci
> matrix'"==" & ("`noci'"!="|`nopvalues'"!=")) {
            = if ("==" & "!=" & "matrix"==" & "==" & ("!="|!="
> )) {
                sreturn local noci "empt"
                sreturn local nopvalues "empt"
            }
            - if ("`pmatrix'"=="" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`ci
> matrix'"!=" & "`noci'"!=") {
                = if ("==" & "==" & "matrix"==" & "!=" & "!=") {
                    sreturn local cimatrix "empt"
                }
                - if ("`pmatrix'"!=" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`ci
> matrix'"==" & "`nopvalues'"!=") {
                    = if ("!=" & "==" & "matrix"==" & "==" & "!=") {
                        sreturn local pmatrix "empt"
                    }
                    - if ("`pmatrix'"!=" & "`tsmatrix'"=="" & "`e(V)'"=="" & "`ci
> matrix'"==" & "`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:pmatix()} 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: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("`cimatix'"!="") {
= if ("!=") {
tempname cimat isvalid
capture matrix `cimat' = `cimatix'
local rc = _rc
if (`rc') {
display as error "invalid {bf:cimatix()}"
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`"!=" & "`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`"!=" & "`tsmatrx`"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
  opts_exclusive "tsmatrx() `dfpvalues`"
}
- if ("`e(V)`"==" & "`dfpvalues`"!=" & "`cimatrx`"!=") {
= if ("matrix"==" & ""!=" & ""!=") {
  opts_exclusive "cimatrx() `dfpvalues`"
}
}

```

```

> _____ end _coef_table._novce_other_m
> ats _____

```

```

- if ("`s(cimatrx)`"=="empty") {
= if ("=="empty") {
  local cimatrx ""

```

```

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

> _____ end _get_diopts.Wra

> pon
- if "`fwrap'" != "" {
= if "" != "" {
    FWrap, `fwrap'
}
- c_local `c_diopts' `levelopt' `vsquish' `allbaselevels' `b
> aselevels' `cnsreport' `fullcnsreport' `emptycells' `omitted' `lstretch' `co
> eflegend' `selegend' `cformat' `sformat' `pformat' `coding' `versus' `compar
> e' `fwrap' `fwrapon' `fvlabel' `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 diopts `'''
- local snames : s(macros)
- foreach sname of local snames {
- local S_`sname' = s(`sname')
= local S_level = s(level)
- }
- local S_`sname' = s(`sname')
= local S_method = s(method)
- }
```

```

- sreturn clear
- GetDiopts DEFAULT

```

```

> _____ begin _get_diopts.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 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(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' `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')
}
- 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 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 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 "`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' `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
end _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 "`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' `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')
    }
- 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' `noci' `nopvalues' `markdown' `citype' `abb
> rev'

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

> ----- end _get_diopts.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 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, `GTOPTS'
      while `:length local rest' {
        local ++k
        local diparm`k' : copy local diparm
        gettoken COLON rest : rest, `GTOPTS'
        gettoken diparm rest : rest, `GTOPTS'
      }
      local ++k
      local diparm`k' : copy local diparm
      local 0 `", `options'''
      syntax [, diparm(string asis) *]
    }
  }
- if "`markdown'" != "" {
= if "" != "" {

```

```

        local lsize = c(linesize)
        set linesize 255
    }
    - `vv' mata: _coef_table()
    = version 12, missing: mata: _coef_table()
}
> _____ begin _get_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 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 __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')
    }
    - 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 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' `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')
}
- 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 " " fvwraon

```

```

> _____ begin opts_exclus

```

```

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

```

```

> _____
y_timing_max | Coefficient   Robust      z      P>|z|      [95% conf. interval]
> l]

```

```

> _____
rule_g | .515883   .160877   3.21   0.001   .2005698   .83119
> 62
rule_itr | .3204081  .1285839  2.49   0.013   .0683882   .5724
> 28
estimated | .7439985  .1004208  7.41   0.000   .5471772   .94081
> 97
cb_authors_ext | .6116896  .0982976  6.22   0.000   .4190298   .80434

```

```

> 93
      _cons |   -.4614562   .1427292   -3.23   0.001   -.7412002   -.18171
> 21
-----
> —
      - 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
> estimated cb_authors_ext 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.smcl
  log type: smcl
  closed on: 12 Sep 2025, 19:25:20
  _____

```