

CHAPTER 6

Macros

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Introduction

Each of the INCLUDE files is listed with the names of the macros it contains. Macros listed take the form:

```
<macroname>MACRO[[ <variables[[:=<default value>]], ..>]]
```

Some variables are listed as *name:req*. In these cases, *req* indicates that *macroname* cannot be called without the variable *name* supplied.

For specific information on the macros themselves, see the contents of the commented *.INC file.

BIOS.INC

- @Cls MACRO pagenum
- @GetCharAtr MACRO pagenum
- @GetCsr MACRO pagenum
- @GetMode MACRO
- @PutChar MACRO chr, atrib, pagenum, loops
- @PutCharAtr MACRO chr, atrib, pagenum, loops
- @Scroll MACRO distance:REQ, atrib:=<07h>, upcol, uprow, dncol, dnrow
- @SetColor MACRO color
- @SetCsrPos MACRO column, row, pagenum
- @SetCsrSize MACRO first, last
- @SetMode MACRO mode
- @SetPage MACRO pagenum
- @SetPalette MACRO color

CMACROS.INC, CMACROS.NEW

These two include files contain the same macros. Use CMACROS.NEW for programs written in MASM 6.0 and later. Use CMACROS.INC for programs written in MASM 5.1 or earlier, or if you have problems with CMACROS.NEW.

- @reverse MACRO list
- arg MACRO args
- assumes MACRO s,ln

callert MACRO funcname
cBegin MACRO pname
cEnd MACRO pname
cEpilog MACRO procname, flags, cbParms, cbLocals, reglist, userparms
cProc MACRO pname:REQ, attribs, autoSave
cPrologue MACRO procname, flags, cbParms, cbLocals, reglist, userparms
createSeg MACRO segName, logName, align, combine, class, grp
cRet MACRO
defGrp MACRO foo:vararg
errn\$ MACRO l,x
errnz MACRO x
externA MACRO names:req, langtype
externB MACRO names:req, langtype
externCP MACRO n,c
externD MACRO names:req, langtype
externDP MACRO n,c
externFP MACRO names:req, langtype
externNP MACRO names:req, langtype
externP MACRO n,c
externQ MACRO names:req, langtype
externT MACRO names:req, langtype
externW MACRO names:req, langtype
farPtr MACRO n,s,o
globalB MACRO name:req, initVal:=<?>, repCount, langType
globalCP MACRO n,i,s,c
globalD MACRO name:req, initVal:=<?>, repCount, langType
globalDP MACRO n,i,s,c
globalQ MACRO name:req, initVal:=<?>, repCount, langType
globalT MACRO name:req, initVal:=<?>, repCount, langType
globalW MACRO name:req, initVal:=<?>, repCount, langType
labelB MACRO names:req,langType
labelCP MACRO n,c

labelD MACRO names:req,langType
labelDP MACRO n,c
labelFP MACRO names:req,langType
labelNP MACRO names:req,langType
labelP MACRO n,c
labelQ MACRO names:req,langType
labelT MACRO names:req,langType
labelW MACRO names:req,langType
lbl MACRO names:req
localB MACRO name
localCP MACRO n
localD MACRO name
localDP MACRO n
localQ MACRO name
localT MACRO name
localV MACRO name,a
localW MACRO name
logName&_assumes MACRO s
logName&_sbegin MACRO
n MACRO
outif MACRO name:req, defval:=<0>, onmsg, offmsg
parmB MACRO names:req
parmCP MACRO n
parmD MACRO names:req
parmDP MACRO n
parmQ MACRO names:req
parmR MACRO n,r,r2
parmT MACRO names:req
parmW MACRO names:req
regPtr MACRO n,s,o
save MACRO r
sBegin MACRO name:req

sEnd MACRO name
setDefLangType MACRO overLangType
staticB MACRO name:req, initVal:=<?>, repCount
staticCP MACRO name:req, i, s
staticD MACRO name:req, initVal:=<?>, repCount
staticDP MACRO name:req, i, s
staticI MACRO name:req, initVal:=<?>, repCount
staticQ MACRO name:req, initVal:=<?>, repCount
staticT MACRO name:req, initVal:=<?>, repCount
staticW MACRO name:req, initVal:=<?>, repCount

MS-DOS.INC

NPVOID TYPEDEF NEAR PTR
FPVOID TYPEDEF FAR PTR
FILE_INFO STRUCT
@ChDir MACRO path:REQ, segmnt
@ChkDrv MACRO drive
@CloseFile MACRO handle:REQ
@DelFile MACRO path:REQ, segmnt
@Exit MACRO return
@FreeBlock MACRO segmnt
@GetBlock MACRO graphs:REQ, retry:=<0>
@GetChar MACRO ech:=<1>, cc:=<1>, clear:=<0>
@GetDate MACRO
@GetDir MACRO buffer:REQ, drive, segmnt
@GetDrv MACRO
@GetDTA MACRO
@GetFileSize MACRO handle:REQ
@GetFirst MACRO path:REQ, atrib, segmnt
@GetInt MACRO interrupt:REQ
@GetNext MACRO

@GetStr MACRO offset:REQ, terminator, limit, segmnt
@GetTime MACRO
@GetVer MACRO
@MakeFile MACRO path:REQ, attrib:=<0>, segmnt, kind
@MkDir MACRO path:REQ, segmnt
@ModBlock MACRO graphs:REQ, segmnt
@MoveFile MACRO old:REQ, new:REQ, segold, segnew
@MovePtrAbs MACRO handle:REQ, distance
@MovePtrRel MACRO handle:REQ, distance
@OpenFile MACRO path:REQ, access:=<0>, segmnt
@PrtChar MACRO chr:VARARG
@Read MACRO offset:REQ, bytes:REQ, handle:=<0>, segmnt
@Rmdir MACRO path:REQ, segmnt
@SetDate MACRO month:REQ, day:REQ, year:REQ
@SetDrv MACRO drive:REQ
@SetDTA MACRO buffer:REQ, segmnt
@SetInt MACRO interrupt:REQ, vector:REQ, segmnt
@SetTime MACRO hour:REQ, minutes:REQ, seconds:REQ, hundredths:REQ
@ShowChar MACRO chr:VARARG
@ShowStr MACRO offset:REQ, segmnt
@TSR MACRO paragraphs:REQ, return
@Write MACRO offset:REQ, bytes:REQ, handle:=<1>, segmnt

MACROS.INC

@ArgCount MACRO arglist:VARARG
@ArgI MACRO index:REQ, arglist:VARARG
@ArgRev MACRO arglist
@PopAll MACRO
@PushAll MACRO
@RestoreRegs MACRO
@SaveRegs MACRO regs:VARARG
echof MACRO format:REQ, args:VARARG
pushc MACRO op

PROLOGUE.INC

cEpilogue MACRO szProcName, flags, cbParams, cbLocals, rgRegs,
rgUserParams

cPrologue MACRO szProcName, flags, cbParams, cbLocals, rgRegs,
rgUserParams

WIN.INC

The include file WIN.INC is WINDOWS.H processed by H2INC, and slightly modified to reduce unnecessary warnings.

