

EXTs

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\$nolist

```
codemacro$rout: PROC external;  
end$proc codemacro$rout;
```

```
db$cm$rout: PROC external;  
end$proc db$cm$rout;
```

```
dw$cm$rout: PROC external;  
end$proc dw$cm$rout;
```

```
dd$cm$rout: PROC external;  
end$proc dd$cm$rout;
```

```
segfix$cm$rout: PROC external;  
end$proc segfix$cm$rout;
```

```
nosegfix$cm$rout: PROC external;  
end$proc nosegfix$cm$rout;
```

```
modrm$cm$rout: PROC external;  
end$proc modrm$cm$rout;
```

```
relb$cm$rout: PROC external;  
end$proc relb$cm$rout;
```

```
relw$cm$rout: PROC external;  
end$proc relw$cm$rout;
```

```
dbit$cm$rout: PROC external;  
end$proc dbit$cm$rout;
```

```
end$cm$rout: PROC external;  
end$proc end$cm$rout;
```

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CCP/M-86 2-0 V.3

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SER. # CC-104

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/* DECLARATION FOR "CODEMACRO" PART

Extended version of ASM86 */

```
dcl    cm$error      byte      external,
      global$cm$error byte      external,
      cm$list$overflow byte      external,
      cmpt           address    external;
```

/* level 2 in the syntax-tree of codemacro building */

/* Procedure to initialize temporary storage and pointers
concerning the building of codemacro */

```
init$cm$rout: PROC external;
end$proc init$cm$rout;
```

```
name$rout: PROC byte external;
end$proc name$rout;
```

```
formal$list$rout: PROC external;
end$proc formal$list$rout;
```

```
terminate$cm$rout: PROC external;
end$proc terminate$cm$rout;
```

```
legal$parameter: PROC(lg,ptr,ptr2) byte external;
  dcl lg byte,
      (ptr,ptr2) address;
end$proc legal$parameter;
```

```
legal$seg$reg: PROC byte external;
end$proc legal$seg$reg;
```

```
put$b: PROC(b) external;
  dcl b byte;
end$proc put$b;
```

```
put$w: PROC(w) external;
  dcl w address;
end$proc put$w;
```

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SER. # _____

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/*

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*/

declare

aaal byte external,
aadl byte external,
aaml byte external,
aasl byte external,
adcll byte external,
addll byte external,
andl0 byte external,
call3 byte external,
callf2 byte external,
cbwl byte external,
clcl byte external,
cldl byte external,
clil byte external,
cmcl byte external,
cmp1l byte external,
cmps2 byte external,
CMPSB1 BYTE EXTERNAL,
CMPSW1 BYTE EXTERNAL,
cwl byte external,
daal byte external,
dasl byte external,
dec3 byte external,
div2 byte external,
esc3 byte external,
hl1l byte external,
ldiv2 byte external,
imul2 byte external,
in4 byte external,
inc3 byte external,
int2 byte external,
into1 byte external,
iret1 byte external,
jal byte external,
jael byte external,
jbl byte external,
jbel byte external,
jcxz1 byte external,
jel byte external,
jgl byte external,
jgel byte external,
jll byte external,
jlel byte external,
jmp2 byte external,
jmpf2 byte external,
jmsl byte external,
jne1 byte external,
jno1 byte external,
jnp1 byte external,
jns1 byte external,

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SER. #

jol byte external,
jpl byte external,
jsl byte external,
lahf1 byte external,
lds1 byte external,
les1 byte external,
leal byte external,
lock1 byte external,
lods2 byte external,
LUDSB1 BYTE EXTERNAL,
LUDSW1 BYTE EXTERNAL,
loop1 byte external,
loope1 byte external,
loopne1 byte external,
mov17 byte external,
movs2 byte external,
MOVSB1 BYTE EXTERNAL,
MOVSW1 BYTE EXTERNAL,
mul2 byte external,
neg2 byte external,
nop1 byte external,
not2 byte external,
or10 byte external,
out4 byte external,
pop4 byte external,
popf1 byte external,
push3 byte external,
pushf1 byte external,
rc14 byte external,
rcr4 byte external,
rep1 byte external,
repel byte external,
repne1 byte external,
ret3 byte external,
retf3 byte external,
rol4 byte external,
ror4 byte external,
sahf1 byte external,
sal4 byte external,
sar4 byte external,
sbb11 byte external,
scas2 byte external,
SCASB1 BYTE EXTERNAL,
SCASW1 BYTE EXTERNAL,
shr4 byte external,
stc1 byte external,
std1 byte external,
sti1 byte external,
stos2 byte external,
SIOSB1 BYTE EXTERNAL,
SIOSW1 BYTE EXTERNAL,
sub11 byte external,
test10 byte external,
wait1 byte external,
xchg6 byte external,
xlat1 byte external,
xor10 byte external;

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CMLINK.EXT:3

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SER. # _____

\$nolist

```
clearcmindex: proc external;
end clearcmindex;
```

```
emit: proc external; /* emit codebytes for an instruction */
end emit;
```

```
emitdummies: proc external; /* emit dummy (NO-OPs) bytes if error */
end emitdummies;
```

```
commandtype: proc(comno,lg,pt) byte external;
  dcl (comno,lg) byte,pt address;
end commandtype;
```

```
mDBNrout: proc external;
end mDBNrout;
```

```
mDBFrout: proc external;
end mDBFrout;
```

```
mDWNrout: proc external;
end mDWNrout;
```

```
mDWFrout: proc external;
end mDWFrout;
```

```
mDDFrout: proc external;
end mDDFrout;
```

```
mRELBout: proc external;
end mRELBout;
```

```
mRELWout: proc external;
end mRELWout;
```

```
mNUSEGFIXrout: proc external;
end mNUSEGFIXrout;
```

```
mSEGFIXrout: proc external;
end mSEGFIXrout;
```

```
mMODRM1rout: proc external;
end mMODRM1rout;
```

```
mMODRM2rout: proc external;
end mMODRM2rout;
```

```
mDBIRout: proc external;
end mDBIRout;
```

```
/* test if operands match instruction */
searchformat: proc byte external;
end searchformat;
```

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DLINE.EXT:3

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decodeline: proc external;
end decodeline;

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SER. # _____

ERMDD.EXT;3

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errmsg: proc(errno) external;
dcl errno byte;
end errmsg;

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SER. # _____

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```

dcl
cip          addr external, /* current instruction pointer */
csegtype     byte external, /* current segment type, code, data */
csegvalue    addr external, /* current segment value */
csegspec     byte external, /* true if segment value specified */
dspec        byte external,
curdseg      addr external, /* current data segment value */
token        struct(      /* actual token scanned */
    type      byte,
    descr     byte,
    value     addr) external, /* token value */
nextch       byte external, /* next input character */
acclen       byte external, /* accumulator length */
accum(80)    byte external, /* actual token scanned */
nooper       byte external, /* no of instruction operands */
operands(4)  operandstruc /* instruction operands, max 4 */
              external;

```

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 SER. # _____

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/*

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*/

operand: proc byte external;
end operand;

NOFORWARDOPER: PROC BYTE EXTERNAL;
END NOFORWARDOPER;

expression: proc(pt) byte external;
dcl pt address;
end expression;

noforwardexpr: proc(pt) byte external;
dcl pt address;
end noforwardexpr;

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SER. # _____

\$nolist

/*

modified 3/28/81 R. Silberstein
modified 6/16/81 R. Silberstein

*/

outhexbyte: proc(ch) external;
 dcl ch byte;
end outhexbyte;

outprintbyte: proc(ch) external;
 dcl ch byte;
end outprintbyte;

outsymbolbyte: proc(ch) external;
 dcl ch byte;
end outsymbolbyte;

insourcebyte: proc byte external;
end insourcebyte;

inincludebyte: proc byte external;
end inincludebyte;

opensearch: proc external;
end opensearch;

openinclude: proc external;
end openinclude;

openhex: proc external;
end openhex;

openprint: proc external;
end openprint;

opensymbol: proc external;
end opensymbol;

close\$source: proc external;
end close\$source;

rewindsource: proc external;
end rewindsource;

close\$include: proc external;
end close\$include;

closehex: proc external;
end closehex;

closeprint: proc external;
end closeprint;

closesymbol: proc external;

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SER. # _____

end closesymbol;

i\$file\$setup: proc(dev,filnam,filtyp) external;
 dcl dev byte,(filnam,filtyp) addr;
end i\$file\$setup;

filesetup: proc byte external;
end filesetup;

\$list

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SER. # _____

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*1

```
errors      addr external,      /* counts no of errors */
```

SER. #

```

/* scanner variables: */

token  struc(          /* actual token scanned */
type    byte,          /* token type, legal values :
                        reg      - register
                        pseudo   - pseudo code
                        string    - text string
                        spec      - special character
                        number    - number
                        operator  - arithmetic operator
                        ident     - identifier */

descr   byte,          /* token description, legal values:
                        nil       - no specification
                        byte      - 8 bit type
                        word      - 16 bit type
                        dword     - 32 bit type */

value   addr) external, /* token value */
nextch   byte external, /* next input character */
acclen   byte external, /* accumulator length */
accum(80) byte external, /* actual token scanned */
accumsave(80) byte external,
acclensave byte external,
eofset   byte external, /* true if end-of-file found */

/* Miscellaneous variables: */

intel$hex$on byte external, /* true if INTEL hex format */
noerror      byte external, /* codemacro decoding errorflag */
errorprinted byte external, /* true if an error is printed */
firstmacroptr address external, /* pointer at first codemacro */
macroptr     address external, /* current pointer within macros */
fullsymtab   byte external, /* full if symboltable is full */
include$on   byte external, /* true if INCLUDEfile input */
IFLEVEL      BYTE EXTERNAL, /* IF-ENDIF NESTING LEVEL */
currentsymbol symbolstruc /* current scanned symbol */
external,
symtabaddr   address external, /* pointer at symbol in table */
nooper       byte external, /* no of instruction operands */
operands(4)  operandstruc /* instruction operands,max 4 */
external,
codemacroptr address external, /* pointer to found codemacro */
help(5)      byte external, /* ascii number scratch area */
i            byte external, /* scratch variable */
default$drive byte external, /* default disk drive */
include$default byte external, /* default drive for include file */
codemacro$flag byte external, /* true if building a codemacro */

globalinit: procedure external; /* initiate some globals */
end globalinit;

$list

```

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SER. # _____

INSTR.EXT;3

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instruction: proc external;
end instruction;

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/* Template for all BDOS calls */

/*

modified 3/26/81 R. Silberstein
modified 9/14/81 R. Silberstein

*/

mon1: procedure(func,info) external;
declare func byte,
info address;
end mon1;

mon2: procedure(func,info) byte external;
declare func byte,
info address;
end mon2;

declare fcb(1) byte external;
declare fcb16(1) byte external;
declare tbuff(1) byte external;
declare endbuf address external;

```

/*****
*
*      B D O S   Externals
*
*****/

```

system\$reset:
procedure external;
end system\$reset;

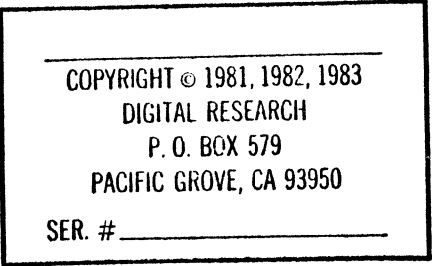
read\$console:
procedure byte external;
end read\$console;

write\$console:
procedure (char) external;
declare char byte;
end write\$console;

write\$list:
procedure (char) external;
declare char byte;
end write\$list;

constat:
procedure byte external;
end constat;

VERSION: PROCEDURE ADDRESS EXTERNAL;
END VERSION;



```
select$disk:
  procedure (disk$number) external;
  declare disk$number byte;
end select$disk;

open$file:
  procedure (fcb$address) byte external;
  declare fcb$address address;
end open$file;

UPEN$RO$FILE: PROCEDURE (FCB$ADDRESS) BYTE EXTERNAL;
  DECLARE FCB$ADDRESS ADDRESS;
END UPEN$RO$FILE;

close$file:
  procedure (fcb$address) byte external;
  declare fcb$address address;
end close$file;

delete$file:
  procedure (fcb$address) external;
  declare fcb$address address;
end delete$file;

read$record:
  procedure (fcb$address) byte external;
  declare fcb$address address;
end read$record;

write$record:
  procedure (fcb$address) byte external;
  declare fcb$address address;
end write$record;

create$file:
  procedure (fcb$address) byte external;
  declare fcb$address address;
end create$file;

interrogate$disk:
  procedure byte external;
end interrogate$disk;

set$DMA$address:
  procedure (DMA$address) external;
  declare DMA$address address;
end set$DMA$address;

crlf: procedure external;
end crlf;
```

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SER. # CC-104

```
$nolist
```

```
/*
```

```
modified 3/28/81 R. Silberstein
```

```
*/
```

```
dcl
pass          byte external, /* current pass no, 1,2,3 */
```

```
/* address counters */
```

```
cip          addr external, /* current instruction pointer */
csegtype     byte external, /* current segment type, code,data,
                           stack or extra data */
```

```
/* print output parameters */
```

```
print$on     byte external, /* on/off flag */
print$switchoff byte external, /* set/reset by NOLIST/LIST */
IFLIST       BYTE EXTERNAL, /* SET/RESET BY IFLIST/NOIFLIST */
maxcol       byte external, /* page width */
printdevice  byte external, /* printfile device */
simform      byte external, /* true if formfeed simulation */
```

```
/* io error status */
```

```
errors       addr external, /* counts no of errors */
eofset       byte external, /* true if end-of-file found */
```

```
/* Miscellaneous variables: */
```

```
errorprinted byte external, /* true if an error is printed */
fullsymtab   byte external, /* full if symboltable is full */
include$on   byte external, /* true if INCLUDEfile input */
IFLEVEL      BYTE EXTERNAL, /* IF-ENDIF NESTING LEVEL */
help(5)      byte external, /* ascii number scratch area */
i            byte external; /* scratch variable */
```

```
globalinit: procedure external; /* initiate some globals */
end globalinit;
```

```
$list
```

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SER. # _____

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/*

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*/

dcl
push byte external,
repz byte external,
aaa byte external,
movs byte external,
pushf byte external,
MOVSB BYTE EXTERNAL,
adc byte external,
add byte external,
CMPSW BYTE EXTERNAL,
ja byte external,
dec byte external,
loopne byte external,
repnz byte external,
jae byte external,
jg byte external,
clc byte external,
iand byte external,
loopz byte external,
aas byte external,
jl byte external,
in byte external,
cli byte external,
jo byte external,
inc byte external,
lahf byte external,
icall byte external,
jne byte external,
cwd byte external,
jnbe byte external,
cmp byte external,
ior byte external,
callf byte external,
div byte external,
les byte external,
sar byte external,
jmp byte external,
hlt byte external,
lock byte external,
xchg byte external,
ret byte external,
idiv byte external,
jmpf byte external,
mul byte external,
pop byte external,
sti byte external,
inot byte external,
mov byte external,
cmps byte external,
iret byte external,

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SER. # _____

popf byte external,
imul byte external,
out byte external,
xlat byte external,
jmps byte external,
loope byte external;

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SER. # _____

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\$nolist

emitinit: proc external;
end emitinit;

emitterminate: proc external;
end emitterminate;

emitcodebyte: proc(ch,typ) external;
 acl (ch,typ) byte;
end emitcodebyte;

\$list

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SER. # _____

```
$nolist
pfind: proc (n,s,a) byte external;
  dcl
    n      byte,
    (s,a)  address;
end pfind;
$list
```

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SER. # _____

\$nolist

/*

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*/

```
printsingbyte: proc(ch) external;  
  dcl ch byte;  
end printsingbyte;
```

```
printcrlf: proc external;  
end printcrlf;
```

```
printnewpage: proc external;  
end printnewpage;
```

```
printsourceline: proc external;  
end printsourceline;
```

```
printinit: proc external;  
end printinit;
```

```
printterminate: proc (USEFACT) external;  
  DECLARE USEFACT BYTE;  
end printterminate;
```

```
eject: proc external;  
end eject;
```

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SER. # _____

\$nolist

/*

modified 4/9/81 R. Silberstein

*/

LISTCIP: PROCEDURE EXTERNAL;
END LISTCIP;DBrout: proc external;
end DBrout;DWout: proc external;
end DWout;DDrout: proc external;
end DDrout;RSrout: proc (typ) external;
dcl typ byte;
end RSrout;CSEGrout: proc external;
end CSEGrout;DSEGrout: proc external;
end DSEGrout;SSEGrout: proc external;
end SSEGrout;ESEGrout: proc external;
end ESEGrout;ORGrout: proc external;
end ORGrout;EQUrout: proc external;
end EQUrout;

\$list

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SER. # _____

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/*

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*/

IFROUT: proc external;
end IFROUT;ENDIFROUT: proc external;
end ENDIFROUT;INCLUDEROUT: proc external;
end INCLUDEROUT;ENDROUT: proc external;
end ENDROUT;PAGESIZEROUT: proc external;
end PAGESIZEROUT;PAGEWIDTHROUT: proc external;
end PAGEWIDTHROUT;TITLEROUT: proc external;
end TITLEROUT;EJECTROUT: proc external;
end EJECTROUT;SIMFORMROUT: proc external;
end SIMFORMROUT;LISTROUT: proc external;
end LISTROUT;NULISTRROUT: proc external;
end NULISTRROUT;IFLISTROUT: PROC EXTERNAL;
END IFLISTROUT;NOIFLISTROUT: PROC EXTERNAL;
END NOIFLISTROUT;

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SER. # _____

\$nolist

scaninit: proc external;
end scaninit;

scan: proc external;
end scan;

skip\$rest\$offline: proc external;
end skip\$rest\$offline;

specialtoken: proc (tok) byte external;
 dcl tok byte;
end specialtoken;

skip\$until: proc (tok) byte external;
 dcl tok byte;
end skip\$until;

emptyline: proc byte external;
end emptyline;

\$list

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SER. # _____

SUBRI.EXT:3

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\$nolist

```
typecalc: proc(val) byte external;  
  dcl val addr;  
end typecalc;
```

```
wrctest: proc(n) byte external;  
  dcl n addr;  
end wrctest;
```

```
copy: procedure(n,s,d) external;  
  dcl n bytes,  
      (s,d) addr;  
end copy;
```

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/*

modified 3/26/81 R. Silberstein
modified 3/28/81 R. Silberstein

*/

outtext: procedure (t) external;
dcl t addr;
end outtext;

FILEABORT: PROCEDURE (FCBADR, TEXTADR) EXTERNAL;
DECLARE (FCBADR, TEXTADR) ADDRESS;
END FILEABORT;

fill: procedure(ch,n,pt) external;
dcl (ch,n) byte,pt addr;
end fill;

digit: procedure(ch) byte external;
dcl ch byte;
end digit;

letter: procedure(ch) byte external;
dcl ch byte;
end letter;

alphanumeric: proc(ch) byte external;
dcl ch byte;
end alphanumeric;

asciichar: proc(ch) byte external;
dcl ch byte;
end asciichar;

upper: procedure(ch) byte external;
dcl ch byte;
end upper;

equal: procedure(n,s,d) byte external;
dcl n byte,
(s,d) addr;
end equal;

hexlout: proc(n,d) external;
dcl n byte,d addr;
end hexlout;

hex2out: proc(n,d) external;
dcl n addr,d addr;
end hex2out;

decout: proc(n,d) external;
dcl n addr,d addr;
end decout;

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SER. # _____

SUBR2.EXT;3

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SER. # _____

\$nolist

/*

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*/

```
dcl freept addr external;  
DCL END$UF$SYMBTAB ADDR EXTERNAL;
```

```
symbterminate: proc external;  
end symbterminate;
```

```
symbinit: proc external;  
end symbinit;
```

```
newsymbol: proc(lg, stradr, result) byte external;  
  dcl lg byte, (stradr, result) addr;  
end newsymbol;
```

```
newmacro: proc(lg, stradr, macdefpt) byte external;  
  dcl lg byte, (stradr, macdefpt) addr;  
end newmacro;
```

```
findsymbol: proc(lg, stradr, result) byte external;  
  dcl lg byte, (stradr, result) addr;  
end findsymbol;
```

```
getattributes: proc(symbadr, dest) external;  
  dcl (symbadr, dest) addr;  
end getattributes;
```

```
enterattributes: proc(symbadr, source) external;  
  dcl (symbadr, source) addr;  
end enterattributes;
```

```
findcodemacro: proc(lg, stradr, result) byte external;  
  dcl lg byte, (stradr, result) addr;  
end findcodemacro;
```

```
new$cm$body: PROC(lg, ptr) byte external;  
  dcl lg byte, ptr addr;  
end$proc new$cm$body;
```

```
new$cm$name: PROC(lg, asciiptr, returnptr) byte external;  
  dcl lg byte, (asciiptr, returnptr) addr;  
end$proc new$cm$name;
```

\$list

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\$nolist

/*

modified 3/28/81 R. Silberstein
modified 3/30/81 R. Silberstein
modified 7/24/81 R. Silberstein

*/

/* Text strings: */

dcl
yes byte external,
no byte external,
initials(1) byte external,
pagetext(1) byte external,
endtext(1) byte external,
USEFACTOR (1) BYTE EXTERNAL,
asm86text(1) byte external,
parerrtext(1) byte external,
openerrtext(1) byte external,
DISKREADERRTEXT (1) BYTE EXTERNAL,
DISKWRITEERRTEXT (1) BYTE EXTERNAL,
MAKEERRTEXT (1) BYTE EXTERNAL,
CLOSEERRTEXT (1) BYTE EXTERNAL,
SYMBFULLERRTEXT (1) BYTE EXTERNAL,
usbreaktext(1) byte external,
pass0text (1) byte external,
pass1text (1) byte external;

\$list

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