



```
PPPPPPPP      SSSSSSSS  EEEEEEEEEEE  CCCCCCCC  TTTTTTTTTTT  SSSSSSSS
PPPPPPPP      SSSSSSSS  EEEEEEEEEEE  CCCCCCCC  TTTTTTTTTTT  SSSSSSSS
PP      PP    SS      EE      CC      TT      SS
PP      PP    SS      EE      CC      TT      SS
PP      PP    SS      EE      CC      TT      SS
PP      PP    SS      EE      CC      TT      SS
PPPPPPPP      SSSSSS    EEEEEEEEEEE  CC      TT      SSSSSS
PPPPPPPP      SSSSSS    EEEEEEEEEEE  CC      TT      SSSSSS
PP      SS      EE      CC      TT      SS
PP      SS      EE      CC      TT      SS
PP      SS      EE      CC      TT      SS
PP      SSSSSSSS  EEEEEEEEEEE  CCCCCCCC  TT      SSSSSSSS
PP      SSSSSSSS  EEEEEEEEEEE  CCCCCCCC  TT      SSSSSSSS
                                     ....
                                     ....
                                     ....
                                     ....
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      IIIIII  SSSSSSSS
LLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLL  IIIIII  SSSSSSSS
```

0001 0  
0002 0  
0003 0  
0004 0  
0005 0  
0006 0  
0007 0  
0008 0  
0009 0  
0010 0  
0011 0  
0012 0  
0013 0  
0014 0  
0015 0  
0016 0  
0017 0  
0018 0  
0019 0  
0020 0  
0021 0  
0022 0  
0023 0  
0024 0  
0025 0  
0026 0  
0027 0  
0028 0  
0029 0  
0030 0  
0031 0  
0032 0  
0033 0  
0034 0  
0035 0  
0036 0  
0037 0  
0038 0  
0039 0  
0040 0  
0041 0  
0042 0  
0043 0  
0044 0  
0045 0  
0046 0  
0047 0  
0048 0  
0049 0  
0050 0  
0051 0  
0052 0  
0053 0  
0054 0  
0055 0  
0056 0  
0057 0

↑ This file, PSECTS.REQ, defines the macros for declaring program sections in BLISS.

```
*****  
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*****
```

Revision History:

Note: this first section of the revision history refers to RTL PSECT.

- 01-2 - Data PIC, NOSHR. TNH 19-Dec-77
- 01-03 - Make OWN be NOSHARE. TNH 6-Jan-77.
- 01-5 - Make OWN be PIC. TNH 27-June-78.
- 01-6 - Change name to RTL PSECT.REQ. JBS 14-NOV-78
- 1-007 - Add copyright notice. JBS 16-NOV-78
- 1-008 - Change PSECT names to start with "\_", to conform to new RTL standard. JBS 21-DEC-78
- 1-009 - Remove the PRINT statement, for the new BLISS compiler. JBS 02-OCT-1979

End of revision history for RTL PSECT, beginning of revision history for PSECTS.

- 1-010 - Created PSECTS from RTL PSECT. JBS 17-Dec-1980
- 1-011 - Update copyright notice. JBS 21-Jun-1983

--  
Declare PSECTS for all EDT modules.

↑ Macro to declare PSECTS for a facility, given the facility prefix.  
: The declarations are very dependent on the linker algorithm for

: R  
:  
:

0058 0  
0059 0  
0060 0  
0061 0  
0062 0  
0063 0  
0064 0  
0065 0  
0066 0  
0067 0  
0068 0  
0069 0  
0070 0  
0071 0  
0072 0  
0073 0  
0074 0  
M 0075 0  
MM 0076 0  
MM 0077 0  
MM 0078 0  
MM 0079 0  
M 0080 0  
0081 0  
0082 0  
0083 0  
0084 0  
0085 0  
0086 0  
0087 0  
0088 0  
0089 0  
0090 0  
0091 0  
0092 0  
0093 0  
0094 0  
M 0095 0  
MM 0096 0  
MM 0097 0  
MM 0098 0  
MM 0099 0  
M 0100 0  
0101 0  
0102 0  
0103 0  
0104 0

! sorting PSECTS. Currently that algorithm divides PSECTS into four groups depending on WRITE vs NOWRITE and EXECUTE vs NOEXECUTE. Therefore in order to get compact programs, PLIT is made EXECUTABLE to get it close to CODE.

Example of use:

PSECT DECLARATIONS:

DECLARE\_PSECTS (FOR); ! Declare PSECTS for FOR\$ facility

Note: since the methodology manual does not yet specify where PSECT declarations go in a module, they are put between EQUATED SYMBOLS and OWN STORAGE (which is after INCLUDE files).

MACRO

DECLARE\_PSECTS (FAC) =

PSECT

CODE = %NAME ('-', FAC, \$CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING\_MODE (WORD\_RELATIVE)),  
PLIT = %NAME ('-', FAC, \$CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING\_MODE (WORD\_RELATIVE)),  
OWN = %NAME ('-', FAC, \$DATA) (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING\_MODE (LONG\_RELATIVE)),  
GLOBAL = %NAME ('-', FAC, \$DATA) (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING\_MODE (LONG\_RELATIVE))

;

+ Define macro for declaring PIC (position independent) dispatch tables as OWN storage (would be better if BIND table = PLIT (...), however, BLISS doesn't allow table to be referenced inside PLIT definition, so use OWN storage instead). The OWN storage is temporarily defined to be same PSECT as code, then DECLARE\_PSECTS should be called again to restore OWN to \_fac\$DATA PSECT.

MACRO

DISPATCH\_PSECTS (FAC) =

PSECT

CODE = %NAME ('-', FAC, \$CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING\_MODE (WORD\_RELATIVE)),  
PLIT = %NAME ('-', FAC, \$CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING\_MODE (WORD\_RELATIVE)),  
OWN = %NAME ('-', FAC, \$CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING\_MODE (WORD\_RELATIVE)),  
GLOBAL = %NAME ('-', FAC, \$CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING\_MODE (WORD\_RELATIVE)) %

;

! End of file PSECTS.REQ

COMMAND QUALIFIERS

BLISS/LIBRARY=EDTSRC:PSECTS/LIST=LIS\$/SOURCE=REQUIRE SRC\$:PSECTS

: Run Time: 00:00.9  
: Elapsed Time: 00:03.3  
: Lines/CPU Min: 7011  
: Lexemes/CPU-Min: 19955  
: Memory Used: 8 pages  
: Library Precompilation Complete

