



```

RRRRRRR      TTTTTTTTT  LL      PPPPPPP  SSSSSSS  EEEEEEEEE  CCCCCCC  TTTTTTTTT
RRRRRRR      TTTTTTTTT  LL      PPPPPPP  SSSSSSS  EEEEEEEEE  CCCCCCC  TTTTTTTTT
RR      RR    TT      LL      PP      PP  SS      EE      CC      TT
RR      RR    TT      LL      PP      PP  SS      EE      CC      TT
RR      RR    TT      LL      PP      PP  SS      EE      CC      TT
RR      RR    TT      LL      PP      PP  SS      EE      CC      TT
RRRRRRR      TT      LL      PPPPPPP  SSSSSS  EEEEEEEE  CC      TT
RRRRRRR      TT      LL      PPPPPPP  SSSSSS  EEEEEEEE  CC      TT
RR      RR    TT      LL      PP      SS      EE      CC      TT
RR      RR    TT      LL      PP      SS      EE      CC      TT
RR      RR    TT      LL      PP      SS      EE      CC      TT
RR      RR    TT      LL      PP      SS      EE      CC      TT
RR      RR    TT      LL      PP      SS      EE      CC      TT
RR      RR    TT      LLLLLLLLL  P      SSSSSSS  EEEEEEEEE  CCCCCCC  TT
RR      RR    TT      LLLLLLLLL  P      SSSSSSS  EEEEEEEEE  CCCCCCC  TT

```

```

RRRRRRR      EEEEEEEEE  QQQQQQ
RRRRRRR      EEEEEEEEE  QQQQQQ
RR      RR    EE      QQ      QQ
RR      RR    EE      QQ      QQ
RR      RR    EE      QQ      QQ
RR      RR    EE      QQ      QQ
RRRRRRR      EEEEEEEE  QQ      QQ
RRRRRRR      EEEEEEEE  QQ      QQ
RR      RR    EE      QQ  QQ  QQ
RR      RR    EE      QQ  QQ  QQ
RR      RR    EE      QQ      QQ
RR      RR    EE      QQ      QQ
RR      RR    EEEEEEEEE  QQQQ  QQ
RR      RR    EEEEEEEEE  QQQQ  QQ

```



File: RTLPSRCT.REQ Edit: JAW1010  
 This file, RTLPSRCT.REQ, defines the macros for declaring RTL psects.

```
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#### Revision History:

```
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 RTLPSRCT.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
1-010 - Add optional second argument to DECLARE_PSECTS, to allow
        control of OWN PSECT alignment boundary. See FOR$SEXIT_HANDL
        for further information. JAW 23-FEB-1981
```

! Declare PSECTS for all Library modules.

Macro to declare PSECTS for a facility, given the facility prefix.  
 The declarations are very dependent on the linker algorithm  
 for 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 is 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, BOUND) =
```

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))
      %IF %LENGTH GEQU 2 %THEN, ALIGN(BOUND) %FI,
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 RTL PSECT.REQ



RTLMACB32 REQ	STRMACROS REQ	RTLOOBBG REQ	RTLPSECT REQ	STRLNK REQ	RTLMACMAR MAR	LIBASCEBC LIS	LIBASTINP LIS	LIBBINTRE LIS	LIBCHAR LIS
					LIBDEF FOR	LIBANASTR LIS	LIBASNMBX LIS	LIBBBCCI LIS	
					LIBABUPCA LIS	LIBADDP LIS			
					SIGDEF FOR		LIBASCTIM LIS		
							LIBATTACH LIS		
					LIBTABMAC MAR	LIBA2EREV LIS	LIBBBSST LIS	LIBCALLG LIS	LIBCLICAL LIS
						LIBADDP LIS			