


```

PPPPPPPP      AAAAAA      TTTTTTTTTT      PPPPPPPP      RRRRRRRR      EEEEEEEEEEE
PPPPPPPP      AAAAAA      TTTTTTTTTT      PPPPPPPP      RRRRRRRR      EEEEEEEEEEE
PP      PP      AA      AA      TT      TT      PP      PP      RR      RR      EE      EEEEEEEEEEE
PP      PP      AA      AA      TT      TT      PP      PP      RR      RR      EE      EEEEEEEEEEE
PP      PP      AA      AA      TT      TT      PP      PP      RR      RR      EE      EEEEEEEEEEE
PP      PP      AA      AA      TT      TT      PP      PP      RR      RR      EE      EEEEEEEEEEE
PPPPPPPP      AA      AA      TT      TT      PPPPPPPP      RRRRRRRR      EEEEEEEEEEE
PPPPPPPP      AA      AA      TT      TT      PPPPPPPP      RRRRRRRR      EEEEEEEEEEE
PP      AAAAAAAAAA      TT      TT      PP      RR      RR      EE      EEEEEEEEEEE
PP      AAAAAAAAAA      TT      TT      PP      RR      RR      EE      EEEEEEEEEEE
PP      AA      AA      TT      TT      PP      RR      RR      RR      RR      EE      EEEEEEEEEEE
PP      AA      AA      TT      TT      PP      RR      RR      RR      RR      EE      EEEEEEEEEEE
PP      AA      AA      TT      TT      PP      RR      RR      RR      RR      EE      EEEEEEEEEEE
PP      AA      AA      TT      TT      PP      RR      RR      RR      RR      EE      EEEEEEEEEEE

```

```

RRRRRRRR      EEEEEEEEEEE      QQQQQQ
RRRRRRRR      EEEEEEEEEEE      QQQQQQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RRRRRRRR      EEEEEEEEEEE      QQ      QQ
RRRRRRRR      EEEEEEEEEEE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EE      QQ      QQ
RR      RR      EEEEEEEEEEE      QQQQ      QQ
RR      RR      EEEEEEEEEEE      QQQQ      QQ

```

PA
+
-
+
-
-
+
-
LI
MA

P A T P R E . R E Q -- REQUIRE FILE FOR PATCH

Version: 'V04-000'

```

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MODULE: PATPRE.REQ

FACILITY: PATCH

ABSTRACT:

REQUIRE FILE TO DEFINE LOCALLY SOME INTERESTING GENERAL SYMBOLS, STRUCTURES AND MACROS

HISTORY:

AUTHOR: K.D. MORSE 4-OCT-77

Modified by:

V03-001 MTR0025 Mike Rhodes 8-Aug-1983
 Add flags bit PAT\$\$_ABSOLUTE to support patching files in absolute mode (by virtual address). NOTE that any file may be patched in absolute mode (eg. ISAM files etc.). Also, bit PAT\$\$_NEW_VERSION has been added which is used in conjunction with PAT\$\$_ABSOLUTE to determine the mapping performed and the generation of a new version of the patched file or if it is patched 'in place'.

V0103 CNH0017 Chris Hume 10-Oct-1979 12:00

Added OFF bit to PAT\$GL COMFAB. Removed support for /COMMAND.
Added support for /VOLUME. (PATMAI.B32 02.27, PATSTO.B32 01.17,
PATWRT.B32 02.06, [VMSLIB]QUADEF.MAR 01.20)

MODIFICATIONS:

NO. ---	DATE ---	PROGRAMMER -----	PURPOSE -----
01	7-MAR-78	K.D. MORSE	ADD PATCH AREA STRUCTURE, PAL.
02	27-APR-78	K.D. MORSE	ADD ASSEMBLER DIRECTIVE TABLE STRUCTURE, ASD.
03	17-MAY-78	K.D. MORSE	ADD MESSAGE SEVERITY LEVELS, MSGS.
04	25-MAY-78	K.D. MORSE	ADD FORWARD REFERENCE TABLE STRUCTURE, FWR.

|++

| FUNCTIONAL DESCRIPTION:

This require file defines some general, local values and macros which cannot or are best not defined globally.

|--

LITERAL

PALSK_EXP_PAREA = 1,	! Expanding patch area flag
PALSK_ADD_PAREA = 0,	! Adding new patch area flag
PATSK_USER_DEF = 3,	! Code returned by PAT\$BUILD_PATH if symbol was user-defined
PATSK_MAX_ECO = 128,	! Maximum eco level allowed
PATSK_MIN_ECO = 1,	! Minimum eco level allowed
PATSK_LENPRIV = 20,	! Length of process private ISD
PATSS_COMMAND = 0,	! Command file bit for CLI to set
PATSS_JOURNAL = 1,	! Journal file bit for CLI to set
PATSS_INPUT = 2,	! Input image file bit for CLI to set
PATSS_OUTPUT = 3,	! Output image file bit for CLI to set
PATSS_UPDATE = 4,	! Update qualifier bit for CLI to set
PATSS_VOLUME = 5,	! Volume qualifier bit for CLI to set
PATSS_ABSOLUTE = 6,	! Absolute qualifier bit for CLI
PATSS_NEW_VERSION = 7,	! New Version qualifier bit for CLI
PATSM_COMMAND = 1,	! Mask of command file CLI bit
PATSM_JOURNAL = 2,	! Mask of journal file CLI bit
PATSM_INPUT = 4,	! Mask of input image file CLI bit
PATSM_OUTPUT = 8,	! Mask of output image file CLI bit
PATSM_UPDATE = 16,	! Mask of update qualifier CLI bit
PATSM_VOLUME = 32,	! Mask of volume qualifier CLI bit
PATSM_ABSOLUTE = 64,	! Mask of absolute qualifier CLI bit
PATSM_NEW_VERSION = 128;	! Mask of new_version qualifier CLI bit

|++

| Definition of image section table entries

|--

BYTEBLOCKFIELDS(ISE,	! Link to next image section entry
L_NXTISE,4,	! Start virtual address in image section
L_IMGVST,4,	! Ending virtual address in image section
L_IMGVEVD,4,	! Starting virtual address of mapped image section
L_MAPVST,4,	! Ending virtual address of mapped image section
L_MAPVEVD,4);	

|++

| Definition of PATCH command text block.

|--

BYTEBLOCKFIELDS(TXT,	! Pointer to next block
L_NXTBLK,4);	

|++

| Definition of patch area list entry, PAL.

|--

BYTEBLOCKFIELDS(PAL,	! Prefix name
L_FLINK,4,	! Forward link

```
L_START_ADR,4,      ! Starting patch area address
L_END_ADR,4,        ! Ending patch area address
L_CS_NAME,4);      ! ASCII name for patch area
```

```
!++
! Definition of Assembler Directive table structure, ASD.
```

```
!--
BYTEBLOCKFIELDS(ASD,
  L_PC,4,           ! Unmapped PC of assembler directive
  L_OPINFO,4,       ! Address of instruction opcode table entry for directive
  B_NUM_OPRND,1);  ! Number of operands on directive
```

```
!++
! Generate the data structure for the Forward Reference table, FWR$.
```

```
!--
BYTEBLOCKFIELDS(FWR,
  L_FLINK,4,        ! Forward link to next entry
  L_PC,4,           ! PC at which operand is to be placed
  W_OPRNDLNG,2,     ! Length of operand string
  B_NUMBYTES,1,     ! Number of bytes operand will take in encoded form
  B_NTHOPRND,1,     ! Number of operand in instruction, i.e., nth operand
  A_OPRNDADR,4,     ! Address of unreduced operand ascii string
  A_OPINFO,4,       ! Index into OPINFO table for instruction's opcode
  B_BUFOFF,4);     ! Offset into PAT$GL_TEMP_BUF to hold encoded operand
```

```
!++
! Define PATCH message severity levels.
```

```
!--
LITERAL
MSG$K_INFO = 3,
MSG$K_WARN = 0,
MSG$K_SEVERE = 2,
MSG$K_FATAL = 4,
MSG$K_SUCCESS = 1;
```

LISTEL REQ	PATACB REQ	PATTAB REQ	PREFIX REQ	SYSSER REQ	UXSMAC REQ
DATBAS REQ	PATACS REQ	PATPCT REQ			
				VAXERR REQ	DYNMEM LIS
	PATPRE REQ				
			PATTER REQ	SCALIT REQ	
PATGEN REQ				VAXOPS REQ	PATACT LIS
OLLNAM REQ					
				SYMFMT REQ	
	PATRTS REQ				
IMGDEF REQ		PATTB REQ	PATTOK REQ		
				SYSLIT REQ	UXPAL REQ
	PATKEY REQ				