

|              |     |           |     |            |          |            |     |              |              |     |
|--------------|-----|-----------|-----|------------|----------|------------|-----|--------------|--------------|-----|
| BBBBBBBBBBBB |     | AAAAAAAAA |     | SSSSSSSSSS |          | RRRRRRRRRR |     | TTTTTTTTTTTT |              | LLL |
| BBBBBBBBBBBB |     | AAAAAAAAA |     | SSSSSSSSSS |          | RRRRRRRRRR |     | TTTTTTTTTTTT |              | LLL |
| BBBBBBBBBBBB |     | AAAAAAAAA |     | SSSSSSSSSS |          | RRRRRRRRRR |     | TTTTTTTTTTTT |              | LLL |
| BBB          | BBB | AAA       | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAA       | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAA       | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAA       | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAA       | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAA       | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBBBBBBBBBBB | BBB | AAAAAAAAA | AAA | SSS        | SSSSSSSS | RRRRRRRRRR | RRR | TTT          |              | LLL |
| BBBBBBBBBBBB | BBB | AAAAAAAAA | AAA | SSS        | SSSSSSSS | RRRRRRRRRR | RRR | TTT          |              | LLL |
| BBBBBBBBBBBB | BBB | AAAAAAAAA | AAA | SSS        | SSSSSSSS | RRRRRRRRRR | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBB          | BBB | AAAAAAAAA | AAA | SSS        |          | RRR        | RRR | TTT          |              | LLL |
| BBBBBBBBBBBB | BBB | AAAAAAAAA | AAA | SSS        | SSSSSSSS | RRR        | RRR | TTT          | LLLLLLLLLLLL |     |
| BBBBBBBBBBBB | BBB | AAAAAAAAA | AAA | SSS        | SSSSSSSS | RRR        | RRR | TTT          | LLLLLLLLLLLL |     |
| BBBBBBBBBBBB | BBB | AAAAAAAAA | AAA | SSS        | SSSSSSSS | RRR        | RRR | TTT          | LLLLLLLLLLLL |     |

```

BBBBBBBBB  PPPPPPP  AAAAAA  FFFFFFFF  UU  UU  NN  NN  DDDDDDD  EEEEEEEEE  FFFFFFFF
BBBBBBBBB  PPPPPPP  AAAAAA  FFFFFFFF  UU  UU  NN  NN  DDDDDDD  EEEEEEEEE  FFFFFFFF
BB      BB  PP      PP  AA      AA  FF      FF  UU  UU  NN  NN  DD      DD  EE      EE  FF      FF
BB      BB  PP      PP  AA      AA  FF      FF  UU  UU  NN  NN  DD      DD  EE      EE  FF      FF
BB      BB  PP      PP  AA      AA  FF      FF  UU  UU  NNNN  NN  DD      DD  EE      EE  FF      FF
BB      BB  PP      PP  AA      AA  FF      FF  UU  UU  NNNN  NN  DD      DD  EE      EE  FF      FF
BBBBBBBBB  PPPPPPP  AA      AA  FFFFFFFF  UU  UU  NN  NN  DD      DD  EEEEEEE  FFFFFFFF
BBBBBBBBB  PPPPPPP  AA      AA  FFFFFFFF  UU  UU  NN  NN  DD      DD  EEEEEEE  FFFFFFFF
BB      BB  PP      AA      AA  FF      FF  UU  UU  NN  NN  DD      DD  EE      EE  FF      FF
BB      BB  PP      AA      AA  FF      FF  UU  UU  NN  NN  DD      DD  EE      EE  FF      FF
BB      BB  PP      AA      AA  FF      FF  UU  UU  NN  NN  DD      DD  EE      EE  FF      FF
BB      BB  PP      AA      AA  FF      FF  UU  UU  NN  NN  DD      DD  EE      EE  FF      FF
BBBBBBBBB  PP      AA      AA  FF      FF  UUUUUUUUU  NN  NN  DDDDDDD  EEEEEEEEE  FF      FF
BBBBBBBBB  PP      AA      AA  FF      FF  UUUUUUUUU  NN  NN  DDDDDDD  EEEEEEEEE  FF      FF

```

```

RRRRRRR  EEEEEEEEE  QQQQQQ
RRRRRRR  EEEEEEEEE  QQQQQQ
RR      RR  EE      QQ      QQ
RR      RR  EE      QQ      QQ
RR      RR  EE      QQ      QQ
RRRRRRR  EEEEEEE  QQ      QQ
RRRRRRR  EEEEEEE  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

```

This file, BPAFUNDEF.REQ, contains all the symbolic names for RSTS monitor calls, for use by the Basic+ AME.

```

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```

Author: John Harper, 22-Feb-79

Modified by:

| Edit  | Author        | Date        | Reason  |
|-------|---------------|-------------|---|
| 201   | John Harper   | 03-May-79   | Add codes for message send/receive  |
| 219   | Jeremy Barker | 25-May-79   | Add codes for .SPEC monitor call  |
| 221   | Jim Ibbett    | 31-May-79   | Add codes for RN1FQ, RN2FQ & set def UUD                                    |
| 225   | Jeremy Barker | 05-Jun-79   | correct codes for .SPEC   |
| 1-226 | John Sauter   | 02-OCT-1979 | Change name to BPAFUNDEF.REQ and remove defense against redundant requires. |
| 1-227 | Steve Lionel  | 11-Mar-1980 | Add copyright notice.   |

Top level EMT function code dispatch

```

LITERAL
fun$k_minemt = 0, ! Minimum EMT code value !JB001
fun$k_calfip = 0, ! File Processor (extended)
fun$k_read = 2, ! Read from channel
fun$k_write = 4, ! Write to channel
fun$k_core = 6, ! Change memory allocation
fun$k_sleep = 8, ! Sleep job
fun$k_peek = 10, ! Peek at monitor memory

```

```

fun$k_spec =      12.  : Device-dependent special function
fun$k_ttape =     14.  : Enter tape mode
fun$k_ttech =     16.  : Enter echo mode
fun$k_ttnch =     18.  : Disable echo mode
fun$k_ttdt =      20.  : Enter DDT submode
fun$k_ttrst =     22.  : Cancel CTRL/O
fun$k_time =      24.  : Get time information
fun$k_postn =     26.  : Get device horizontal position
fun$k_date =      28.  : Get current date
fun$k_set =       30.  : Get keyword bits
fun$k_stat =      32.  : Get statistics for job
fun$k_run =       34.  : Run new program
fun$k_name =      36.  : Set new program name
fun$k_exit =      38.  : Exit to default run-time system
fun$k_rts =       40.  : Switch to new run-time system
fun$k_erlog =     42.  : Log an error
fun$k_logs =      44.  : Check for logical devices
fun$k_clear =     46.  : Clear keyword bits
fun$k_mesag =     48.  : Message send/receive
fun$k_ccl =       50.  : Check for CCL command
fun$k_fss =       52.  : Scan file-name string
fun$k_uuo =       54.  : Execute SYS call
fun$k_chain =     56.  : Chain to job under same RTS
fun$k_plas =      58.  : Memory management directives

fun$k_maxemt =    58:  ! Maximum EMT code value

```

```

: File Processor calls

```

```

: Placed in byte 3 of FIRQB for CALFIP directive

```

```

: LITERAL

```

```

fun$k_minfip =    0.  ! Minimum FIP function code      !JB001

fun$k_close =     0.  : Close channel
fun$k_open =      2.  : Open channel (file already exists)
fun$k_create =    4.  : Create new file on channel
fun$k_delete =    6.  : Delete file by name
fun$k_rename =    8.  : Rename existing file
fun$k_dirfq =    10.  : Get directory information
fun$k_fipuuo =   12.  : Alternative SYS call
fun$k_errmsg =   14.  : Get error message
fun$k_reset =    16.  : Reset (close) all channels
fun$k_lookup =   18.  : Look up a file
fun$k_assign =   20.  : Assign device/logical name
fun$k_deassign = 22.  : Deassign a device/logical name
fun$k_deass_all = 24.  : Deassign all devices
fun$k_cre_tmp =  26.  : Create temporary file on disk
fun$k_cre_bin =  28.  : Create binary file (compiled image)
fun$k_rn1fq =    30.  : Name...as... part 1      ! A221
fun$k_rn2fq =    32.  : Name...as... part 2      ! A221

fun$k_maxfip =   32:  ! Maximum FIP function code      ! M221

```

## UO calls

Extended monitor functions - EMT call fun\$k\_uuo. Function code  
in FIRQB byte 3.

```
LITERAL
fun$k_minuuo =      -26.      : Minimum UO function code
fun$k_uufil =      -26.      : File placement control
fun$k_uuatr =      -25.      : Read/write file attributes
fun$k_uuccl =      -24.      : Add/delete CCL command
fun$k_uufss1 =     -23.      : Terminating file-string scan
fun$k_uuset =      -22.      : Set special run priority
fun$k_uusc1 =      -21.      : Drop/regain temp privilege
fun$k_uusc2 =      -20.      : Lock/unlock job in memory
fun$k_uulog =      -19.      : Set no of logins
fun$k_uurts =      -18.      : Run-time system control
fun$k_uunam =      -17.      : Name run-time system
fun$k_uudie =      -16.      : System shutdown
fun$k_uuact =      -15.      : Accounting dump
fun$k_uudat =      -14.      : Change date/time
fun$k_uupri =      -13.      : Change priority/etc
fun$k_uutb2 =      -12.      : Get monitor tables (part 2)
fun$k_uubck =      -11.      : Change file backup statistics
fun$k_uufss2 =     -10.      : Filename string scan
fun$k_uuhng =       -9.      : Hangup a modem
fun$k_uufcb =       -8.      : Device information
fun$k_uucct =       -7.      : Control-C trap enable
fun$k_uupok =       -6.      : Poke monitor memory
fun$k_uubro =       -5.      : Broadcast to terminals
fun$k_uufrc =       -4.      : Force input to terminals
fun$k_uutb1 =       -3.      : Get monitor tables (part 1)
fun$k_uunlg =       -2.      : Disable logins
fun$k_uuylg =       -1.      : Enable logins
fun$k_uupas =        0.      : Create user account
fun$k_uudlu =        1.      : Delete user account
fun$k_uucln =        2.      : Clean disk-pack
fun$k_uumnt =        3.      : Mount, set characteristics
fun$k_uulin =        4.      : Login
fun$k_uubye =        5.      : Logout
fun$k_uuatt =        6.      : Attach/reattach
fun$k_uudet =        7.      : Detach
fun$k_uuchu =        8.      : Change password/quota, etc
fun$k_uuerr =        9.      : Return error messages
fun$k_uuass =       10.      : Assign device
fun$k_uudea =       11.      : Deassign device
fun$k_uudal =       12.      : Deassign all devices
fun$k_uuzer =       13.      : Zero a device
fun$k_uurad =       14.      : Read/reset accounting info
fun$k_uudir =       15.      : Directory lookup
fun$k_uutrm =       16.      : Set terminal characteristics
fun$k_uulok =       17.      : Lookup on filename
fun$k_uumes1 =      18.      : Message send/receive
fun$k_uuche =      19.      : Disk caching control
```

```

fun$uucnv = 20.      ! Convert date/time to ascii
fun$uusln = 21.      ! System logical names
fun$uumes2 = 22.     ! Message send/receive
fun$uuswp = 23.      ! Add/remove system files
fun$uujob = 24.      ! Job creation
fun$uuppn = 25.      ! Wild card PPN lookup
fun$uusdef = 28.     ! Set default filespec          ! A221

fun$maxuuo = 28;     ! Maximum UUO function code      ! M211

```

```

: Codes for message send/receive (held in byte 4 of FIRQB)

```

```

LITERAL

```

```

fun$minsr = -9.      ! Minimum send/receive function code

fun$srabt = -9.      ! Remote link abort
fun$srdis = -8.      ! Remote link disconnect
fun$srser = -7.      ! Remote link service
fun$srint = -6.      ! Remote received interrupt
fun$srudm = -5.      ! Remote data message
fun$srucr = -4.      ! Remote connect reject
fun$srucc = -3.      ! Remote connect confirm
fun$sruci = -2.      ! Remote connect initiate
fun$srclcl = -1.     ! Send local data message
fun$srrem = 0.       ! Remove local receiver
fun$srclcl = 1.      ! Declare local receiver
fun$srclcl = 2.      ! Receive message

fun$maxsr = 2;      ! Maximum send/receive function code

```

```

: Codes for magtape .SPEC call functions

```

```

LITERAL

```

```

fun$mt_min = 0.      ! Minimum magtape function code ! A 219
fun$mt_min = 0.      ! Minimum magtape function code ! A 225

fun$mt_rwo = 0.      ! Magtape rewind offline      ! A 225
fun$mt_eof = 1.      ! Magtape write EOF mark      ! A 225
fun$mt_rew = 2.      ! Magtape rewind               ! A 225
fun$mt_skp = 3.      ! Magtape skip records        ! A 225
fun$mt_bks = 4.      ! Magtape backspace records   ! A 225
fun$mt_den = 5.      ! Magtape set parity & density ! A 225
fun$mt_sts = 6.      ! Magtape return tape status  ! A 225
fun$mt_chr = 7.      ! Magtape return file chars.  ! A 225
fun$mt_rwc = 8.      ! Magtape set rewind on close ! A 225

fun$mt_max = 8;     ! Maximum magtape function code ! A 225

```

```

: Last command function codes for magtape .SPEC call

```

```

LITERAL

```

```

mtf$rewoff = 0.     ! Rewind off-line            ! A 219
mtf$read = 1.       ! Read                       ! A 219
mtf$write = 2.      ! Write                      ! A 219

```

```
mtf$sk_wrt_eof = 3,      ! Write EOF mark           ! A 219
mtf$sk_rewind = 4,      ! Rewind                   ! A 219
mtf$sk_skip = 5,       ! Skip records             ! A 219
mtf$sk_bksp = 6;       ! Backspace records       ! A 219
```

```
! Codes for terminal .SPEC call functions.
```

```
LITERAL
fun$sk_tt_min = 0,      ! Minimum term. function code ! A 258
fun$sk_tt_ctrlo = 0,   ! Cancel CTRL/O             ! A 258
fun$sk_tt_tape = 1,    ! Set tape mode              ! A 258
fun$sk_tt_echo = 2,    ! Enable echo & clear tape mode ! A 258
fun$sk_tt_noecho = 3,  ! Disable echo                ! A 258
fun$sk_tt_onechr = 4,  ! Set single character input  ! A 258
fun$sk_tt_force = 5,   ! Force to term (NOT V1.0)    ! A 258
fun$sk_tt_broad = 6,   ! B'cast to term (NOT V1.0)   ! A 258
fun$sk_tt_cantyp = 7,  ! Cancel typeahead           ! A 258

fun$sk_tt_max = 7;     ! Maximum term. function code ! A 258
```

```
! End of file BPAFUNDEF.REQ
```

