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UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	PPP
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UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	
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UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
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UUUUUUUUUUUUUUUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPP	
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{ Version: 'V04-000'

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{ This is a definition of the various data structures required by the
{ TSTCNTRL. It includes definitions for the various bit flags as well
{ as for the major data structures.
{

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{ CREATION DATE:      13-JUL-1982
{ AUTHOR:             Brian A. Axtell
{ MODIFIED BY:

```

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{ V03-003 BAA0002      Brian A. Axtell,      17-Jan-1984
{           Added ASSIGNM_PAR flag.

```

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{ V03-002 BAA0001      Brian A. Axtell,      16-Dec-1982
{           Modified the way PRCINFOS_FLAGS was defined.

```

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{ V03-001 LDJ0001      Larry D. Jones,      16-Dec-1982
{           Changed the name to remove the double DEF.

```

MODULE TCNTRL;

/\*  
/\*  
/\*

first define the major data structure

#MAXRSS = 252;

AGGREGATE PRC\_INFO STRUCTURE PREFIX PRCINFOS;

FLINK\_ADDRESS;  
BLINK\_ADDRESS;  
FINALSTS LONGWORD;  
PID LONGWORD;  
TERMTIME QUADWORD;  
CPUTIM LONGWORD;  
PAGEFLTS LONGWORD;  
PGFLPEAK LONGWORD;  
WSPEAK LONGWORD;  
BIOCNT LONGWORD;  
DIOCNT LONGWORD;  
LOGIN QUADWORD;  
FLAGS\_OVERLAY UNION;  
FLAGS\_LONGWORD UNSIGNED;  
FLAGS\_BITS STRUCTURE;  
    MBX\_CHAN\_BITFIELD\_MASK;  
    PROC\_ABORTED\_BITFIELD\_MASK;  
    FLG\_FILLER\_BITFIELD\_LENGTH 32 - ^;  
    END\_FLAGS\_BITS;

END FLAGS\_OVERLAY;

MBX\_CHAN\_WORD;

ID\_NUMB\_WORD;

NODE\_ADDRESS;

DEVICE\_ADDRESS;

DIRECTORY\_ADDRESS;

FILNAM\_ADDRESS;

EXTENSION\_ADDRESS;

VERSION\_ADDRESS;

FILESPEC\_SIZ\_WORD;

NODE\_SIZ\_WORD;

DEVICE\_SIZ\_WORD;

DIR\_SIZ\_WORD;

FILNAM\_SIZ\_WORD;

EXTENSTON\_SIZ\_WORD;

VERSION\_SIZ\_WORD;

SPARE\_WORD;

SPARE\_LONGWORD;

FILE\_SPEC\_CHARACTER\_LENGTH #MAXRSS;

END PRC\_INFO;

```
/*
/* Define the bit fields for the flag.
/*
AGGREGATE FLG STRUCTURE PREFIX TCNTRLS;
FRST_FILE_REACHED BITFIELD MASK; /* have we reached the first process to start?
STRT_MORE BITFIELD MASK; /* do we need to start more processes?
DELETE_TEMP_LOG BITFIELD MASK; /* do we delete the temporary log files?
LONG_REPORT BITFIELD MASK; /* is this a long (or short) report?
ABLE_TO_WRAP BITFIELD MASK; /* are we able to wrap-around if need to?
WRT_MSG BITFIELD MASK; /* should we write this message out?
PRNT_COMMENTS BITFIELD MASK; /* do we print the comments out?
SET_COGNAM BITFIELD MASK; /* is the main log file name set?
TIMER_SET BITFIELD MASK; /* is the watchdog timer currently set and running?
TERMINAL BITFIELD MASK; /* are we running from a terminal?
REWOUND BITFIELD MASK; /* the data file has been rewound
EXIT BITFIELD MASK; /* is it time to exit?
PROC_PEND BITFIELD MASK; /* is a process pending to be run?
ABORT BITFIELD MASK; /* we are aborting the TSICNTRL
TIME_EXP BITFIELD MASK; /* watchdog timer has expired
EXIT_HAND BITFIELD MASK; /* we have gone through the exit handler
PROC_NUKED BITFIELD MASK; /* the running procs. nuked by $DELPRC
FILLER BITFIELD LENGTH 32-^;
END FLG;
```

```
/*
/* Define the bit fields for the main control case statement.
/*
AGGREGATE CNTRL CASE STRUCTURE PREFIX CASES;
  ABORT BITFIELD MASK; /* do abnormal abortion of TSTCNTRL
  TIME_EXP BITFIELD MASK; /* handler expiration of timer
  PROC_TERM BITFIELD MASK; /* do process termination routine
  EOF BITFIELD MASK; /* do end-of-file routine
  FILE BITFIELD MASK; /* do the file routine
  ASSIGN BITFIELD MASK; /* do the assignment routine
  CREATE_PROC BITFIELD MASK; /* do the create process routine
  PARSE BITFIELD MASK; /* do the parse routine
  #BITS = ^;
  CONSTANT CNTRL CASE SIZE EQUALS #BITS;
  FILLER BITFIELD LENGTH 32 - #BITS;
END CNTRL_CASE;
```

```
/*
/* Define the bit fields for the create process case statement.
/*
AGGREGATE CRT_PROC_CASE STRUCTURE PREFIX CRTPRCS;
  EXE BITFIELD MASK; /* it is an executable image
  EXE_PARM BITFIELD MASK; /* it is an image with parameters
  COM BITFIELD MASK; /* it is a command procedure
  COM_PARM BITFIELD MASK; /* it is a command procedure with parameters
  NULL BITFIELD MASK; /* it is a null filespec
  #BITS = ^;
  CONSTANT CREAT_CASE_SIZE EQUALS #BITS;
  FILLER BITFIELD LENGTH 32 - #BITS;
END CRT_PROC_CASE;
```





```
/*
/* Define the bit fields for the assignment case
/*
AGGREGATE ASGN_CASE STRUCTURE PREFIX ASSIGNS;
  LOG BITFIELD MASK; /* alter logfile name
  NAME BITFIELD MASK; /* change process name
  START BITFIELD MASK; /* change starting sentinel
  STOP BITFIELD MASK; /* change stopping sentinel
  COM BITFIELD MASK; /* comment
  TIME BITFIELD MASK; /* maxtime
  PAR BITFIELD MASK; /* change parallel count
  #BITS = ^;
  CONSTANT ASGN_CASE SIZ EQUALS #BITS;
  FILLER BITFIELD LENGTH 32 - #BITS;
END ASGN_CASE;
END_MODULE;
```

