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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.

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

{ V03-003 BAA0002 Brian A. Axtell, 17-Jan-1984
{ Added ASSIGN\$M_PAR flag.
{
{ V03-002 BAA0001 Brian A. Axtell, 16-Dec-1982
{ Modified the way PRCINFO\$_FLAGS was defined.
{
{ 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;
EXTENSION_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 parse flags  
/*  
AGGREGATE PRSE_FLAGS STRUCTURE PREFIX PARSes;  
  PROC RUNS OTHERS BITFIELD MASK; /* process must run alone (0)  
  GET NXT_RCRD BITFIELD MASK; /* get next data record  
  #BITS = ^;  
  FILLER BITFIELD LENGTH 32 - #BITS;  
END PRSE_FLAGS;
```



```
/*
/* 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;
```

