

NULLPROC
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NULL PROCESS CODE

N 15

16-SEP-1984 00:39:08 VAX/VMS Macro V04-00

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DECLARATIONS
EXE\$NULLPROC - NULL PROCESS

```

0000 1
0000 2 .TITLE NULLPROC NULL PROCESS CODE
0000 3 .IDENT 'V04-000'
0000 4
0000 5
0000 6 *****
0000 7 *****
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0000 25 *
0000 26 *
0000 27 *****
0000 28 *****
0000 29 :++
0000 30 : FACILITY: EXECUTIVE, SCHEDULER
0000 31 :
0000 32 : ABSTRACT: NULLPROC CONTAINS THE MAIN CODE FOR THE NULL
0000 33 : PROCESS WHICH ABSORBS ALL EXCESS PROCESSOR TIME.
0000 34 :
0000 35 : ENVIRONMENT:
0000 36 :
0000 37 : AUTHOR: R. HUSTVEDT CREATION DATE: 30-NOV-76
0000 38 :
0000 39 : MODIFIED BY:
0000 40 :
0000 41 : VERSION ,
0000 42 : 01 -
0000 43 : --

```

```
0000 45      .SBTTL  DECLARATIONS
0000 46      :
0000 47      : INCLUDE FILES:
0000 48      :
0000 49      :      $PRDEF                      ; DEFINE PROCESSOR REGISTERS
0000 50      :
0000 51      :
0000 52      : MACROS:
0000 53      :
0000 54      :
0000 55      :
0000 56      : EQUATED SYMBOLS:
0000 57      :
0000 58      :
0000 59      :
0000 60      : OWN STORAGE:
0000 61      :
0000 62      :
```

```
0000 64 .SBTTL EXE$NULLPROC - NULL PROCESS
0000 65 :++
0000 66 : FUNCTIONAL DESCRIPTION:
0000 67 : EXE$NULLPROC CONTAINS THE CODE EXECUTED ONLY WHEN NO OTHER
0000 68 : PROCESS REQUIRES PROCESSOR TIME. THE CUMULATIVE EXECUTION
0000 69 : TIME FOR THE NULL PROCESS REPRESENTS THE SYSTEM IDLE TIME.
0000 70 : THE REASON FOR BEING IDLE IS DETERMINED BY THE NULL PROCESS
0000 71 : AND A CORRESPONDING COUNTER INCREMENTED. THIS SET OF COUNTERS
0000 72 : CAN BE USED TO DETERMINE THE TIME SPENT IN EACH POSSIBLE
0000 73 : IDLE STATE.
0000 74 :
0000 75 : CALLING SEQUENCE:
0000 76 : NONE
0000 77 :
0000 78 : INPUT PARAMETERS:
0000 79 : NONE
0000 80 :
0000 81 : IMPLICIT INPUTS:
0000 82 : NONE
0000 83 :
0000 84 : OUTPUT PARAMETERS:
0000 85 : NONE
0000 86 :
0000 87 : IMPLICIT OUTPUTS:
0000 88 : NONE
0000 89 :
0000 90 : COMPLETION CODES:
0000 91 : NONE
0000 92 :
0000 93 : SIDE EFFECTS:
0000 94 : NONE
0000 95 :
0000 96 :--
0000 97 :
0000 98 EXE$NULLPROC:: : NULL PROCESS ENTRY
0000 99 10$: :
FE 11 0000 100 BRB 10$ : **** TEMP ****
0002 101
0002 102 .END
```

NULLPROC
Symbol table

NULL PROCESS CODE

E 16

16-SEP-1984 00:39:08
5-SEP-1984 03:45:35

VAX/VMS Macro V04-00
[SYS.SRC]NULLPROC.MAR;1

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EXE\$NULLPROC 00000000 RG 01

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS :	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
. BLANK :	00000002 (2.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABS\$	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:01.62
Command processing	110	00:00:00.56	00:00:04.25
Pass 1	129	00:00:01.11	00:00:05.16
Symbol table sort	0	00:00:00.06	00:00:00.07
Pass 2	34	00:00:00.32	00:00:00.93
Symbol table output	1	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	307	00:00:02.16	00:00:12.07

The working set limit was 1050 pages.
 4887 bytes (10 pages) of virtual memory were used to buffer the intermediate code.
 There were 10 pages of symbol table space allocated to hold 81 non-local and 1 local symbols.
 102 source lines were read in Pass 1, producing 12 object records in Pass 2.
 8 pages of virtual memory were used to define 7 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	4

139 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:NULLPROC/OBJ=OBJ\$:NULLPROC MSRC\$:NULLPROC/UPDATE=(ENH\$:NULLPROC)+EXECMLS/LIB

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[Screenshot]	[Screenshot]	[Screenshot]	[Screenshot]	[Screenshot]	[Screenshot]	MDATEND LIS	[Screenshot]	[Screenshot]	OPENMSG LIS
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