


```
0000 1 .TITLE CALCTV - CALCULATES ANSI TAPE VERSION
0000 2 .IDENT 'V04-000'
0000 3
0000 4 :*****
0000 5 :*
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0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :++
0000 28 :
0000 29 : FACILITY: MAGNETIC TAPE ACP
0000 30 :
0000 31 : ABSTRACT:
0000 32 :
0000 33 : This routine calculates the generation and generation version fields
0000 34 : of the ANSI MAGNETIC TAPE from the FILES-11 version number.
0000 35 :--
0000 36 :
0000 37 :
0000 38 : ENVIRONMENT:
0000 39 : STARLET operating system, including privileged SYSTEM SERVICES and
0000 40 : internal EXEC routines.
0000 41 :
0000 42 :
0000 43 :
0000 44 : AUTHOR: Deborah H. Gillespie, CREATION DATE: 26-Jul-1977
0000 45 :
0000 46 : Modified By:
0000 47 :
0000 48 : V02-003 REFORMAT Frederick E. Deen, Jr. 29-Jul-1980
0000 49 : This code was reformatted to adhere to RMS standards
0000 50 :
0000 51 : V02-002 MCN0014 Maria del C. Nasr 10-Jun-1980
0000 52 : If file version number is zero, set to 1.
0000 53 :
0000 54 :--
0000 55 :
0000 56 :
0000 57 :
```



```
0000 58 : INCLUDE FILES:
0000 59 :
0000 60 :
0000 61 :
0000 62 : MACROS:
0000 63 :
0000 64 :
0000 65 :
0000 66 : EQUATED SYMBOLS:
0000 67 :
0000 68 : INPUT PARAMETERS
0000 69 :
0000 70 :
00000004 0000 71 : VERSION = 4
00000008 0000 72 : GENADDR = 8
0000 73 :
0000 74 :
0000 75 :
0000 76 : OWN STORAGE:
0000 77 :
0000 78 :
```

; binary version number
; addr of quad word to receive
; generation and gen. number

```

0000 80
0000 81 :++
0000 82
0000 83 : CALC_TAPE_VER - This routine calculates the generation and generation version
0000 84 : fields in the ANSI MAGNETIC TAPE from the FILES-11 version
0000 85 : number.
0000 86
0000 87 : CALLING SEQUENCE:
0000 88 : CALC_TAPE_VER(ARG1,ARG2)
0000 89
0000 90 : INPUT PARAMETERS:
0000 91 : ARG1 - binary version number
0000 92 : ARG2 - address of quad word to receive generation and generation number
0000 93
0000 94 : IMPLICIT INPUTS:
0000 95 : None
0000 96
0000 97 : OUTPUT PARAMETERS:
0000 98 : ARG2 - address to receive
0000 99 : 4 bytes generation number
0000 100 : 4 bytes generation version number
0000 101
0000 102 : IMPLICIT OUTPUTS:
0000 103 : None
0000 104
0000 105 : ROUTINE VALUE:
0000 106 : None
0000 107
0000 108 : SIDE EFFECTS:
0000 109 : Generation number = (version -1) /100
0000 110 : Generation version number = MOD (version -1)/100
0000 111
0000 112 :--
0000 113
00000000 114 : .PSECT $CODE$,NOWRT, LONG
0000 115
0004 0000 116 : CALC_TAPE_VER::
0002 0002 117 : .WORD ^M<R2> : save register R2
52 08 AC D0 0002 119 : MOVL GENADDR(AP),R2 : get address of answer
62 7C 0006 120 : CLRQ (R2) : clear answer
03 04 AC F4 0008 121 : SOBGEQ VERSION(AP),1$ : if version greater than 0, ok
04 AC D6 000C 122 : INCL VERSION(AP) : otherwise, set to 1
50 04 AC 3C 000F 123 1$: MOVZWL VERSION(AP),R0 : pickup 16 bits of version
04 A2 62 50 00000064 51 D4 0013 124 : CLRL R1 : EDIV takes quad word
8F 7B 0015 125 : EDIV #100,R0,(R2),4(R2) : calc quotient and remainder
62 D6 001F 126 : INCL (R2) : increment quotient
04 0021 127 : RET : return
0022 128
0022 129 : .END

```


CALCTV
Symbol table

- CALCULATES ANSI TAPE VERSION

B 14

16-SEP-1984 02:03:31
5-SEP-1984 02:10:29

VAX/VMS Macro V04-00
[MTAACP.SRC]CALCTV.MAR;1

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(3)

AQB_TYPE	=	00000005		
CALC_TAPE_VER	=	00000000	RG	01
FCB_TYPE	=	00000000		
GENADDR	=	00000008		
MVL_TYPE	=	00000004		
RVT_TYPE	=	00000003		
VCB_TYPE	=	00000002		
VERSION	=	00000004		
WCB_TYPE	=	00000001		

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes										
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
\$CODE\$	00000022 (34.)	01 (1.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.04	00:00:02.07
Command processing	124	00:00:00.68	00:00:07.08
Pass 1	84	00:00:00.67	00:00:03.50
Symbol table sort	0	00:00:00.01	00:00:00.01
Pass 2	39	00:00:00.50	00:00:03.15
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	282	00:00:01.93	00:00:15.86

The working set limit was 900 pages.
 2621 bytes (6 pages) of virtual memory were used to buffer the intermediate code.
 There were 10 pages of symbol table space allocated to hold 9 non-local and 1 local symbols.
 312 source lines were read in Pass 1, producing 11 object records in Pass 2.
 7 pages of virtual memory were used to define 6 macros.

! Macro library statistics !

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

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:CALCTV/OBJ=OBJ\$:CALCTV MSRC\$:MTADEF1/UPDATE=(ENH\$:MTADEF1)+MSRC\$:CALCTV/UPDATE=(ENH\$:CALCTV)+EXECMLS/LIB

