

```

SSSSSSSSSSSS 00000000 RRRRRRRRRR TTTTTTTTTTTTTT 33333333 22222222
SSSSSSSSSSSS 00000000 RRRRRRRRRR TTTTTTTTTTTTTT 33333333 22222222
SSSSSSSSSSSS 00000000 RRRRRRRRRR TTTTTTTTTTTTTT 33333333 22222222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSSSSSSSSS 000          000 RRRRRRRRRR TTT          TTT          333          333 222          222
SSSSSSSSSS 000          000 RRRRRRRRRR TTT          TTT          333          333 222          222
SSSSSSSSSS 000          000 RRRRRRRRRR TTT          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSS          000          000 RRR          RRR          TTT          333          333 222          222
SSSSSSSSSSSS 00000000 RRR          RRR          TTT          33333333 2222222222222222
SSSSSSSSSSSS 00000000 RRR          RRR          TTT          33333333 2222222222222222
SSSSSSSSSSSS 00000000 RRR          RRR          TTT          33333333 2222222222222222

```

_S2

Pse

SOR

SOR

SOR

SOR

_L I

```

SSSSSSSS 000000 RRRRRRRR TTTTTTTTTT RRRRRRRR NN NN VV VV EEEEEEEEE E CCCCCCCC
SSSSSSSS 000000 RRRRRRRR TTTTTTTTTT RRRRRRRR NN NN VV VV EEEEEEEEE CCCCCCCC
SS 00 00 RR RR TT RR RR NN NN VV VV EEEEEEEEE CC CCCCCC
SS 00 00 RR RR TT RR RR NN NN VV VV EEEEEEEEE CC CCCCCC
SS 00 00 RR RR TT RR RR NN NN VV VV EEEEEEEEE CC CCCCCC
SSSSSS 00 00 RRRRRRRR TT RRRRRRRR NN NN VV VV EEEEEEEEE CC CCCCCC
SSSSSS 00 00 RRRRRRRR TT RRRRRRRR NN NN VV VV EEEEEEEEE CC CCCCCC
SS 00 00 RR RR TT RR RR NN NN VV VV EEEEEEEEE CC CCCCCC
SS 00 00 RR RR TT RR RR NN NN VV VV EEEEEEEEE CC CCCCCC
SS 00 00 RR RR TT RR RR NN NN VV VV EEEEEEEEE CC CCCCCC
SSSSSSSS 000000 RRR RR RR TT RR RR NN NN VV VV EEEEEEEEE CCCCCCCC
SSSSSSSS 000000 RRR RR RR TT RR RR NN NN VV VV EEEEEEEEE CCCCCCCC

```

```

LL 111111 SSSSSSSS
LL 111111 SSSSSSSS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LLLLLLLLLL 111111 SSSSSSSS
LLLLLLLLLL 111111 SSSSSSSS

```

.....

(1)	3	Copyright Notice
(1)	29	Program description
(2)	57	Transfer Vector

```
0000 1 .TITLE SOR$TRN_VEC Transfer Vector for Sort/Merge
0000 2 .IDENT 'V04-000' ; File: SORTRNVEC.MAR Edit: PDG3042
0000 3 .SBTTL Copyright Notice
0000 4 :
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
```

```
0000 29 .SBTTL Program description
0000 30 :++
0000 31 :
0000 32 : FACILITY:
0000 33 :
0000 34 : Transfer vector for VAX-11 Sort/Merge
0000 35 :
0000 36 : ABSTRACT:
0000 37 :
0000 38 : NONE
0000 39 :
0000 40 : ENVIRONMENT:
0000 41 :
0000 42 : Native mode, User mode, AST reentrant
0000 43 :
0000 44 : AUTHOR:
0000 45 :
0000 46 : Peter D Gilbert, May 1982
0000 47 :
0000 48 : MODIFIED BY:
0000 49 :
0000 50 : T03-015 Original
0000 51 : T03-016 Added the SORSO MERGE entry point. PDG 9-Dec-1982
0000 52 : T03-017 Don't bother padding to a full page. PDG 7-Jan-1983
0000 53 : T03-018 Changed the name of SORSSTAT. PDG 3-Mar-1983
0000 54 : V03-042 Change Ident. PDG 28-Apr-1983
0000 55 :--
```

```
0000 57 .SBTTL Transfer Vector
0000 58
0000 59 ; This macro expands into a transfer vector item for each entry point
0000 60 ;
0000 61 .MACRO TRNVEC A
0000 62 : .ALIGN QUAD
0000 63 .EXTERNAL A
0000 64 .TRANSFER A
0000 65 .MASK A
0000 66 JMP A+2
0000 67 .ENDM TRNVEC
0000 68
0000 69 .DSABL GBL ; Globals must be explicitly declared
0000 70
00000000 71 .PSECT SORSRO_CODE NOVEC,NOWRT,RD,EXE,SHR,LCL,REL,CON,PIC,LONG
0000 72
0000 73 SOR_TRANSFER:
0000 74 TRNVEC SORS$BEGIN_MERGE
0008 75 TRNVEC SORS$BEGIN_SORT
0010 76 TRNVEC SORS$END_SORT
0018 77 TRNVEC SORS$PASS_FILES
0020 78 TRNVEC SORS$RELEASE_REC
0028 79 TRNVEC SORS$RETURN_REC
0030 80 TRNVEC SORS$SORT_MERGE
0038 81 TRNVEC SORS$SPEC_FILE
0040 82 TRNVEC SORS$INIT_SORT
0048 83 TRNVEC SORS$INIT_MERGE
0050 84 TRNVEC SORS$STAT
0058 85 TRNVEC SORS$DO_MERGE
0060 86 : .BLKB 512-<.-SOR_TRANSFER> ; Pad to full page
0060 87
0060 88 .END
```

SOR\$TRN_VEC
Symbol Table

Transfer Vector for Sort/Merge

K 12

16-SEP-1984 01:18:27
5-SEP-1984 03:37:42

VAX/VMS Macro V04-00
[SORT32.SRC]SOR\$TRNVEC.MAR;1

Page 4
(2)

SOR\$BEGIN_MERGE	*****	X	01
SOR\$BEGIN_SORT	*****	X	01
SOR\$DO_MERGE	*****	X	01
SOR\$END_SORT	*****	X	01
SOR\$INIT_MERGE	*****	X	01
SOR\$INIT_SORT	*****	X	01
SOR\$PASS_FILES	*****	X	01
SOR\$RELEASE_REC	*****	X	01
SOR\$RETURN_REC	*****	X	01
SOR\$SORT_MERGE	*****	X	01
SOR\$SPEC_FILE	*****	X	01
SOR\$STAT	*****	X	01
SOR_TRANSFER	00000000	R	01

! Psect synopsis !

<u>PSECT name</u>	<u>Allocation</u>	<u>PSECT No.</u>	<u>Attributes</u>														
. ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE				
SOR\$RO_CODE	00000060 (96.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG				

! Performance indicators !

<u>Phase</u>	<u>Page faults</u>	<u>CPU Time</u>	<u>Elapsed Time</u>
Initialization	32	00:00:00.03	00:00:00.98
Command processing	119	00:00:00.45	00:00:04.67
Pass 1	77	00:00:00.45	00:00:02.92
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	33	00:00:00.22	00:00:01.19
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	3	00:00:00.03	00:00:00.14
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	268	00:00:01.20	00:00:09.92

The working set limit was 900 pages.
1791 bytes (4 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 13 non-local and 0 local symbols.
88 source lines were read in Pass 1, producing 9 object records in Pass 2.
1 page of virtual memory was used to define 1 macro.

! Macro library statistics !

<u>Macro library name</u>	<u>Macros defined</u>
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

SORSTRN_VEC
VAX-11 Macro Run Statistics

Transfer Vector for Sort/Merge

L 12

16-SEP-1984 01:18:27 VAX/VMS Macro V04-00
5-SEP-1984 03:37:42 [SORT32.SRC]SORTRNVEC.MAR;1

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(2)

MACRO/DISABLE=TRACE/LIS=LIS\$:SORTRNVEC/OBJ=OBJ\$:SORTRNVEC MSRC\$:SORTRNVEC/UPDATE=(ENH\$:SORTRNVEC)

