

UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
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	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPP	
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RRRRRRRR      MM      MM      SSSSSSSS  TTTTTTTTTT  EEEEEEEEEEE  SSSSSSSS  TTTTTTTTTT  888888
RR      RR    MMMM  MMMM  SS          TT          EE          SS          TT          88      88
RR      RR    MMMM  MMMM  SS          TT          EE          SS          TT          88      88
RR      RR    MM   MM   MM   SS          TT          EE          SS          TT          88      88
RR      RR    MM   MM   MM   SS          TT          EE          SS          TT          88      88
RRRRRRRR      MM      MM      SSSSSS    TT          EE          SSSSSS    TT          888888
RRRRRRRR      MM      MM      SSSSSS    TT          EE          SSSSSS    TT          888888
RR      RR    MM      MM      SS          TT          EE          SS          TT          88      88
RR      RR    MM      MM      SS          TT          EE          SS          TT          88      88
RR      RR    MM      MM      SS          TT          EE          SS          TT          88      88
RR      RR    MM      MM      SSSSSSSS  TT          EEEEEEEEEEE  SSSSSSSS  TT          888888
RR      RR    MM      MM      SSSSSSSS  TT          EEEEEEEEEEE  SSSSSSSS  TT          888888

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LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
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LL      II     SS
LL      II     SS
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

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```
0000 72      .EXTERNAL  REPORT_ERROR,BEG_DESCR,BEGPUT,FIN_DESCR,FINPUT,FLD_DESCR,FLD
0000 73      $BEGIN  RMSTEST8,002,_,_RMSTEST,<INDEXED FILE TEST-PROGRAM>,<GBL,LONG>
0000 74
0000 75      :
0000 76      : Macros...
0000 77      :
0000 78
0000 79      .MACRO  STORE STRING,PRE
0000 80      .SAVE
0000 81      .PSECT  _$_RMSNAM
0000 82      $$TMPX=:_
0000 83      PRE                                     ; store any carriage control info
0000 84      .ASCII  %STRING%
0000 85      $$TMPX1=._$$TMPX
0000 86      .RESTORE
0000 87      .ENDM  STORE
0000 88
0000 89      .MACRO  BEGIN TSTNAM
0000 90      STORE  <TSTNAM>
0000 91      MOVL  #$$TMPX,BEG_DESCR+4           ; addr
0000 92      MOVL  #$$TMPX1,BEG_DESCR           ; len
0000 93      BSBW  BEGPUT
0000 94      .ENDM  BEGIN
0000 95
0000 96      .MACRO  FINISH TSTNAM
0000 97      STORE  <TSTNAM>
0000 98      MOVL  #$$TMPX,FIN_DESCR+4         ; addr
0000 99      MOVL  #$$TMPX1,FIN_DESCR         ; len
0000 100     BSBW  FINPUT
0000 101     .ENDM  FINISH
0000 102
0000 103     .MACRO  FIELD FLDNAM
0000 104     STORE  <FLDNAM>
0000 105     MOVL  #$$TMPX,FLD_DESCR+4       ; addr
0000 106     MOVL  #$$TMPX1,FLD_DESCR       ; len
0000 107     BSBW  FLDPUT
0000 108     .ENDM  FIELD
0000 109
0000 110     .MACRO  MBPT ?L                       ; bpt, maybe?
0000 111     BLBC  VERBOSITY,L
0000 112     BPT
0000 113     L:
0000 114     .ENDM  MBPT
0000 115
0000 116     :
0000 117     : IXVAR1 -- program to create and populate the rms-11 file
0000 118     :         idxvr1.dat ; records are variable length
0000 119     :         keys cannot change; dupes are fixed
0000 120     :
0000 121
0000 122
0000 123     .ENABL  DBG
0000 124     .NLIST  MEB
0000 125     $RMSDEF
0000 126
0000 127
0000 128     :
```



```

027C 239
0270 240 ;
0270 241 ; key is rec# only
0270 242 ;
0270 243 ;
0270 244 XAB5: $XABKEY NXT=XAB6,-
0270 245 POS=<0>,-
0270 246 SIZ=<1>,-
0270 247 REF=5
028C 248
028C 249 ;
028C 250 ; key is a
028C 251 ; therefore records are in input order
028C 252 ;
028C 253 ;
028C 254 XAB6: $XABKEY NXT=XAB7,-
028C 255 POS=<2>,-
028C 256 SIZ=<1>,-
028C 257 REF=6
0308 258
0308 259 ;
0308 260 ; key is (127,128)
0308 261 ; mostly all dups
0308 262 ;
0308 263 XAB7: $XABKEY POS=<1>,-
0308 264 SIZ=<1>,-
0308 265 REF=7
0354 266
0354 267 ;
0354 268 ;
0354 269 ; begin code
0354 270 ;
0354 271 ;
00000769 272 .PSECT __RMSTEST, LONG
0769 273
0769 274 RMT$INDEX::
0769 275
0769 276 START: .WORD 0
5A 00000000'EF 9E 0768 277 MOVAB FAB1,R10 ; address of fab
FE9E CF D4 0772 278 BEGIN <INDEXED TEST>
F863' 30 0787 279 CLRL OPERATION ; indicate create operation
0788 280 $CREATE FAB=R10,ERR=REPORT_ERROR; do create
079A 281 BSBW ERR
079D 282
5A 000000B0'EF 9E 079D 283 1$: MOVAB RAB1,R10
FE81 CF D6 07A4 284 INCL OPERATION ; indicate connect operation
07A8 285 $CONNECT RAB=R10,-
07A8 286 ERR=REPORT_ERROR ; do connect
F846' 30 07B7 287 BSBW ERR
07BA 288
FE6E CF 7F 8F 90 07BA 289 2$: MOVB #127.,MASBUF+1 ; set up for inserts
53 FE62 CF 9A 07C0 290 MOVZBL FIRST,R3 ; start record #
07C5 291
53 FFFFFFF00 8F CA 07C5 292 PNEXT: BICL2 #^X<FFFFFFF00>,R3 ; insert the records
FE5C CF 53 90 07CC 293 MOVB R3,MASBUF
FE8D CF 53 90 07D1 294 MOVB R3,RECNUM
00000664'E3 53 90 07D6 295 MOVB R3,L^RECNUM+1(R3)

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			07DD	296	\$RAB_STORE	RAB=R10,-			
			07DD	297		RSZ=R3			
22	AA	F83B	CF	A0	07E1	298	ADDW2	BASLEN,RAB\$W,RSZ(R10)	
		FE3D	CF	02	9A	07E7	299	MOVZBL	#2,OPERATION ; indicate put
						07EC	300	\$PUT	RAB=R10,ERR=REPORT_ERROR
						07FB	301	BSBW	ERR
						07FE	302	MOVZBL	#6,R0
						0801	303	MULL2	R3,R0
						0804	304	MOVL	RAB\$L,RFA0(R10),-
						0807	305		L^RFABUF(R0) ; move rfa of record
						080C	306	MOVW	RAB\$W,RFA4(R10),-
						080F	307		L^RFABUF+4(R0) ; 6 char long
FE13	CF	FE16	CF	92	0814	308	MCOMB	MASBUF+1,MASBUF+1	
						081B	309	CLRB	L^RECNUM+1(R3)
						0821	310	MOVZBL	STEP,R0
						0826	311	ADDL2	R0,R3
						0829	312	ADDB2	#4,COUNT
						082E	313	BNEQ	PNEXT
FDF2	CF	53	50	83	0830	314	SUBB3	R0,R3,LAST ; move last key put into last	
						0836	315	JSB	CHKALL ; check all the indexes
						083C	316		
						083C	317		
						083C	318	\$RAB_STORE	RAB=R10,-
						0840	319		RAC=KEY
						0844	320	INCL	OPERATION
						0853	321	\$FIND	RAB=R10,ERR=REPORT_ERROR
						0856	322	BSBW	ERR
						0856	323	\$RAB_STORE	RAB=R10,-
						085A	324		RAC=SEQ
						085F	325	MOVZBL	LAST,R3
						0863	326	MULL3	#6,R3,R4
						086A	327	ADDL2	#RFABUF,R4
						086F	328	MOVW	#61.,BASLEN
						086F	328		
						0874	330	UNEXT:	MOVZBL
						0883	331		#4,OPERATION
						0886	332	\$GET	RAB=R10,ERR=REPORT_ERROR
						088B	333	BSBW	ERR
						088E	334	MOVZBL	MASBUF,R6
						0890	335	CPL	R6,R3
						08A5	336	BEQL	DAT_OK
						08A5	337	FIELD	<DATA>
						08AA	338		
						08AD	339	DAT_OK:	MOVAL
						08B0	340		RECNUM+2,R0
						08B3	341		ADDL2
						08B5	342		R3,R0 ; position to end of buffer
						08B9	343		(R4)+,(R0)+ ; move rfa in for update
						08BE	344		(R4)+,(R0)+
						08CD	345	INCL	R4
						08D0	346	ADDW2	#5,RAB\$W,RSZ(R10)
						08D5	347	MOVZBL	#5,OPERATION
						08DB	348	\$UPDATE	RAB=R10,ERR=REPORT_ERROR
						08DF	350	BSBW	ERR
						08E1	351	MOVAL	RECNUM+2,R0 ; position to end of buffer
						08F6	352	ADDL2	R3,R0
								CLRB	-1(R0)
								CPL	RAB\$L,RFA0(R10),(R0) ; check rfa after update
								BEQL	RFA_OK
								FIELD	<DATA (RFA) AFTER UPDATE>

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60 14 80 D4 08F6 353 RFA_OK: CLRL (R0)+
          91 08F8 354          CMPB RAB$W RFA4(R10),(R0)
          15 13 08FC 355          BEQL RFA OK1
          08FE 356          FIELD <DATA (RFA) AFTER UPDATE>
          0913 357 RFA_OK1:
          60 94 0913 358          CLRB (R0)
          53 96 0915 359          INCB R3 ; r3 started as last key put
          0917 360 ; and they increase by 1
          03 13 0917 361          BEQL 10$
          FF53 31 0919 362          BRW UNEXT
          091C 363 10$: $RAB_STORE RAB=R10,-
          091C 364          USZ=#316.
F6FB CF 01 B0 0922 365          MOVW #1,PSTEP
00000A59'EF 16 0927 366          JSB CHKALL
          092D 367
          092D 368 ;
          092D 369 ; test delete
          092D 370 ;
          092D 371 ;
          53 FCF6 CF 94 092D 372          CLRB COUNT
          FCF3 CF 9A 0931 373          MOVZBL LAST,R3
          0936 374          $RAB_STORE RAB=R10,RAC=RFA
          093A 375
FCEA CF 04 9A 093A 376 DNEXT: MOVZBL #4,OPERATION
          50 06 9A 093F 377          MOVZBL #6,R0
          50 53 C4 0942 378          MULL2 R3,R0
          00000024'E0 D0 0945 379          MOVL L^RFABUF(R0),-
          10 AA 00000028'E0 B0 094B 380          RAB$L RFA0(R10) ; move rfa into rab for get
          F699' 30 094D 381          MOVW L^RFABUF+4(R0),RAB$W RFA4(R10)
          50 FCBC CF 9A 0964 383          $GET RAB=R10,ERR=REPORT_ERROR; get the record, locking it
          00000000'E0 FCBD CF 90 0967 384          BSBW ERR
          FCAF CF 06 9A 096C 385          MOVZBL COUNT,R0
          F674' 30 0975 386          MOVZBL #6,OPERATION ; store away its rec number
          FC97 CF 96 097A 387          $DELETE RAB=R10,ERR=REPORT_ERROR
          53 08 80 0989 388          BSBW ERR
          A5 12 098C 389          INCB COUNT
          0990 390          ADDB2 #8,R3
          0993 391          BNEQ DNEXT ; deleted 32 records (every 8th)
          0995 392
          0995 393 ;
          0995 394 ; check deleted records no longer appear anywhere
          0995 395 ;
          0995 396 ;
          35 AA 07 90 0995 397          MOVB #7,RAB$B_KRF(R10) ; do all 8 keys
          0999 398          $RAB_STORE RAB=R10,RAC=SEQ
          099D 399
FC87 CF 08 9A 099D 400 KNEXT: MOVZBL #8.,OPERATION
          F64C' 30 09A2 401          $REWIND RAB=R10,ERR=REPORT_ERROR; rewind on new key of reference
          53 38 D0 0981 402          BSBW ERR
          FC6D CF 04 9A 0984 403          MOVL #56.,R3 ; get all the records sequentially
          0987 404          MOVZBL #4,OPERATION
          098C 405
          098C 406 GNEXTD: $GET RAB=R10,ERR=REPORT_ERROR
          56 F632' 30 09CB 407          BSBW ERR
          50 F62E CF DE 09CE 408          MOVAL DELBUF,R6
          50 56 08 C1 09D3 409          ADDL3 #8.,R6,R0

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FC51 CF 86 91 09D7 410 CHK_DEL:
      15 12 09D7 411      CMPB      (R6)+,MASBUF      ; make sure it wasn't deleted
      50 56 D1 09DC 412      BNEQ      DEL_OK
      DF 1F 09DE 413      FIELD      <DATA (RECORD WAS DELETED)>
      C1 53 F5 09F3 414 DEL_OK:  CMPL      R6,R0
      0001827A 8F 50 D1 09F6 415      BLSSU     CHK_DEL
      OB 13 09F8 416      SOBGTR    R3,GNEXTD
      F5F0' 30 09FB 417      $GET      RAB=R10      ; verify end of file
      0A04 418      CMPL      R0,#RMSS_EOF
      0A0B 419      BEQL      EOF
      0A0D 420      BSBW     EOFPUT
      0A10 421      MBPT
      0A18 422
      0A18 423 EOF:
      35 AA 97 0A18 424      DECB      RAB$B_KRF(R10)
      80 18 0A1B 425      BGEQ      KNEXT
      FC07 CF 07 9A 0A1D 426      MOVZBL   #7,OPERATION      ; indicate close
      5A 00000000'EF DE 0A22 427      MOVAL    FAB1,R10
      04 AA 01008000 8F D0 0A29 428      MOVL     #<FAB$M_NAM!FAB$M_DLT>,FAB$L_FOP(R10)
      F5BD' 30 0A31 429      $CLOSE   FAB=R10,ERR=REPORT_ERROR
      0A40 430      BSBW     ERR
      0A43 431      FINISH   <INDEXED TEST>
      04 0A58 432      RET
      0A59 433
      0A59 434
      0A59 435 ;
      0A59 436 ; subroutines
      0A59 437 ;
      0A59 438 ;
      0A59 439 ;
      0A59 440 ; this routine checks the indices in various ways
      0A59 441 ;
      0A59 442 ;
      53 FBCB CF 9A 0A59 443 CHKALL: MOVZBL   LAST,R3      ; set up to check index on key 0
      0093 30 0A5E 444      BSBW     CHKIDX      ; and do so
      53 FBC3 CF 9A 0A61 445      MOVZBL   LAST,R3      ; set up to check index on key 1
      35 AA 96 0A66 446      INCB     RAB$B_KRF(R10)
      0088 30 0A69 447      BSBW     CHKIDX
      53 FBB8 CF 9A 0A6C 448      MOVZBL   LAST,R3      ; set up to check index on key 4
      0A71 449      $RAB_STORE RAB=R10,-
      0A71 450      KRF=#4
      007C 30 0A75 451      BSBW     CHKIDX      ; and do so
      53 FBAC CF 9A 0A78 452      MOVZBL   LAST,R3      ; set up to check index on key 5
      35 AA 96 0A7D 453      INCB     RAB$B_KRF(R10)
      0071 30 0A80 454      BSBW     CHKIDX      ; and do so
      F598 CF FB9D CF 9B 0A83 455      MOVZBW   STEP,PSTEP    ; set up to check index on key 6
      53 FB98 CF 9A 0A8A 456      MOVZBL   FIRST,R3
      35 AA 96 0A8F 457      INCB     RAB$B_KRF(R10)
      005F 30 0A92 458      BSBW     CHKIDX      ; and do so
      53 FB8D CF 9A 0A95 459      MOVZBL   FIRST,R3      ; set up to check index on key 2
      0A9A 460      $RAB_STORE RAB=R10,-
      0A9A 461      KRF=#2
      54 10 0A9E 462      BSBB     CHKIDX      ; and do so
      50 02 3C 0AA0 463      MOVZWL   #2,R0
      F57A CF 50 A4 0AA3 464      MULW2   R0,PSTEP
      53 FB7A CF 9A 0AAB 465      MOVZBL   FIRST,R3      ; start at beginning
      35 AA 96 0AAD 466      INCB     RAB$B_KRF(R10)      ; index =3

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FB71 CF 80 8F 90 OAB0 467      MOVB #128.,COUNT      ; check half
          3C 10 OAB6 468      BSBB CHKIDX
          53 FB6A CF 9A OAB8 469      MOVZBL FIRST,R3      ; setup to check second half
          53 FB63 CF 80 OABD 470      ADDB2 STEP,R3
FB5F CF 80 8F 90 OAC2 471      MOVB #128.,COUNT
          46 10 OAC8 472      BSBB GNEXT      ; cont where left off
          53 FB58 CF 9A OACA 473      MOVZBL FIRST,R3
          OACF 474      $RAB_STORE RAB=R10,-
          OACF 475      KRF=#7
FB4E CF 80 8F 90 OAD3 476      MOVB #128.,COUNT
          19 10 OAD9 477      BSBB CHKIDX
          53 FB47 CF 9A OADB 478      MOVZBL FIRST,R3
          56 FB40 CF 9A OAE0 479      MOVZBL STEP,R6
          53 56 C0 OAE5 480      ADDL2 R6,R3
FB39 CF 80 8F 90 OAE8 481      MOVB #128.,COUNT
          20 10 OAEE 482      BSBB GNEXT
          35 AA 94 OAF0 483      CLRB RAB$B_KRF(R10)
          05 OAF3 484      RSB
          OAF4 485
          OAF4 486 :
          OAF4 487 : this routine checks one index
          OAF4 488 : input: r3 - start record number
          OAF4 489 :
          OAF4 490
          OAF4 491 CHKIDX: $RAB_STORE RAB=R10,-
          OAF4 492 RAC=KEY
          FB2C CF 03 9A OAF8 493      MOVZBL #3,OPERATION ; indicate find function
          OAFD 494      $FIND RAB=R10,ERR=REPORT_ERROR
          OB0C 495      $RAB_STORE RAB=R10,-
          OB0C 496      RAC=SEQ
          OB10 497
          53 FFFFFFF00 8F CA OB10 498 GNEXT: BICL2 #^X<FFFFFF00>,R3
          FB0D CF 04 9A OB17 499      MOVZBL #4,OPERATION ; indicate get function
          56 FAFE CF 9A OB2B 501      $GET RAB=R10,ERR=REPORT_ERROR
          53 56 91 OB30 502      MOVZBL MASBUF,R6
          15 13 OB33 503      CMPB R6,R3
          OB35 504      BEQL D_OK
          OB4A 505      FIELD <DATA>
          53 00000664'E3 91 OB4A 506 D_OK: CMPB L^RECNUM+1(R3),R3
          15 13 OB51 507      BEQL D_OK1
          OB53 508      FIELD <DATA>
          50 22 AA F4B4 CF A3 OB68 509 D_OK1: SUBW3 BASLEN,RAB$W_RSZ(R10),R0; calc rec # from record length
          53 50 B1 OB6F 510      CMPW R0,R3
          15 13 OB72 511      BEQL RSZ
          OB74 512      FIELD <RSZ>
          OB89 513
          00000024'E0 50 06 9A OB89 514 RSZ: MOVZBL #6,R0
          50 53 C4 OB8C 515      MULL2 R3,R0
          10 AA D1 OB8F 516      CMPL RAB$L_RFA0(R10),L^RFABUF(R0)
          15 13 9B97 517      BEQL RFA_OK100
          9B99 518      FIELD <RFA>
          OB8E 519
          00000028'E0 14 AA B1 OB8E 520 RFA_OK100:
          15 13 OB8E 521      CMPW RAB$W_RFA4(R10),L^RFABUF+4(R0)
          OB86 522      BEQL RFA_OK101
          OB88 523      FIELD <RFA>

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56 F451 CF 3C OBCD 524 RFA_OK101:
53 56 C0 OBCD 525 MOVZWL PSTEP,R6
FA4D CF 04 80 OBD2 526 ADDL2 R6,R3
03 13 OBDS 527 ADDB2 #4,COUNT
FF31 31 OBDA 528 BEQL 10$
05 05 OBDC 529 BRW GNEXT
OBDF 530 10$: RSB
OBEO 531
OBEO 532
OBEO 533 : this is the error subroutine
OBEO 534 : operation - 0 create
OBEO 535 : 1 connect
OBEO 536 : 2 put
OBEO 537 : 3 find
OBEO 538 : 4 get
OBEO 539 : 5 update
OBEO 540 : 6 delete
OBEO 541 : 7 close
OBEO 542 : 8 rewind
OBEO 543
OBEO 544
OBEO 545 .END
```

RMSTEST8
Symbol table

INDEXED FILE TEST PROGRAM ;

M 14

16-SEP-1984 01:51:38 VAX/VMS Macro V04-00
5-SEP-1984 04:22:11 [UETP.SRC]RMSTEST8.MAR;1

\$\$DTPTMP	=	00000000	D		FIN_DESCR	*****	X	00
\$\$PSECT_EP	=	00000000			FIRST	00000626	R D	01
\$\$SPTMP	=	00000000	D		FLDPUT	*****	X	00
\$\$STMP	=	00000001	D		FLD_DESCR	*****	X	00
\$\$TAB	=	00000308	R D	03	GNEXT	00000B10	R D	01
\$\$TABEND	=	00000354	R D	03	GNEXTD	000009BC	R R D	01
\$\$TMP	=	00000000	D		KNEXT	0000099D	R R D	01
\$\$TMP1	=	00000002	D		LAST	00000628	R R D	01
\$\$TMP2	=	0000005A	D		MASBUF	0000062D	R	01
\$\$TMPX	=	00000071	R D	05	NAMSB_ESS	= 0000000A	D	
\$\$TMPX1	=	00000003	D		NAMSB_NOP	= 00000008	D	
\$\$RMSTEST	=	0000001E			NAMSB_RSS	= 00000002	D	
\$\$RMS_PBUGCHK	=	00000010			NAMSC_BID	= 00000002	D	
\$\$RMS_TBUGCHK	=	00000008			NAMSC_BLN	= 00000060	D	
\$\$RMS_UMODE	=	00000004			NAMSL_ESA	= 0000000C	D	
..AFLG	=	00000000	D		NAMSL_RSA	= 00000004	D	
..FLG	=	00000002	D		NAMBLR	00000050	R R D	03
..MOD	=	00000001	D		OPERATION	00000629	R R R	01
..TYP	=	00000003	D		PNEXT	000007C5	R R R	01
.LEN	=	00000001	D		PSTEP	00000022	R	01
PASLEN	=	00000020	R D	01	RABSB_KRF	= 00000035	D	
BEGPUT	*****		X	00	RABSB_RAC	= 0000001E	D	
BEG_DESCR	*****		X	00	RABSC_BID	= 00000001	D	
CHKALL	00000A59	R D		01	RABSC_BLN	= 00000044	D	
CHKIDX	00000AF4	R D		01	RABSC_KEY	= 00000001	D	
CHK_DEL	000009D7	R D		01	RABSC_RFA	= 00000002	D	
COUNT	00000627	R D		01	RABSC_SEQ	= 00000000	D	
DAT_GK	000008A5	R D		01	RABSL_CTX	= 00000018	D	
DELBUF	000000C0	R D		01	RABSL_RFA0	= 00000010	D	
DEL_OK	000009F3	R D		01	RABSL_ROP	= 00000004	D	
DNEXT	0000093A	R D		01	RABSV_KGE	= 00000015	D	
D_OK	00000B4A	R D		01	RABSW_RFA4	= 00000014	D	
D_OK1	00000B68	R D		01	RABSW_RSZ	= 00000022	D	
EOF	00000A18	R D		01	RABSW_USZ	= 00000020	D	
EOFPUT	*****		X	00	RAB1	000000B0	R D	03
ERR	*****		X	00	RECNUM	00000663	R D	01
FABSB_FNS	= 00000034	D			REPORT_ERROR	*****	X	00
FABSC_BID	= 00000003	D			RFABUF	00000024	R D	01
FABSC_BLN	= 00000050	D			RFA_Ok	000008F6	R D	01
FABSC_IDX	= 00000020	D			RFA_OK1	00000913	R D	01
FABSC_VAR	= 00000002	D			RFA_OK100	00000BAE	R D	01
FABSL_ALQ	= 00000010	D			RFA_OK101	00000BCD	R D	01
FABSL_FNA	= 0000002C	D			RMS_EOF	= 0001827A	D	
FABSL_FOP	= 00000004	D			RMTINDEX	00000769	RG D	01
FABSM_DLT	= 00008000	D			RSZ	00000B89	R D	01
FABSM_NAM	= 01000000	D			START	00000769	R D	01
FABSV_CHAN_MODE	= 00000002	D			STEP	00000624	R D	01
FABSV_DEL	= 00000002	D			SYSSCLOSE	*****	GX	01
FABSV_FILE_MODE	= 00000004	D			SYSSCONNECT	*****	GX	01
FABSV_GET	= 00000001	D			SYSSCREATE	*****	GX	01
FABSV_LNM_MODE	= 00000000	D			SYSSDELETE	*****	GX	01
FABSV_NAM	= 00000018	D			SYSSFIND	*****	GX	01
FABSV_PUT	= 00000000	D			SYSSGET	*****	GX	01
FABSV_UPD	= 00000003	D			SYSSPUT	*****	GX	01
FABSW_GBC	= 00000048	D			SYSSREWIND	*****	GX	01
FAB1	00000000	R D		03	SYSSUPDATE	*****	GX	01
FINPUT	*****		X	00	UNEXT	0000086F	R D	01

```

VE^9OSITY          ***** X 00
XAB$B_DAN          = 0000000A D
XAB$B_DTP          = 00000013 D
XAB$B_FLG          = 00000012 D
XAB$B_IAN          = 00000008 D
XAB$B_LAN          = 00000009 D
XAB$B_NUL          = 00000015 D
XAB$B_PROLOG       = 00000048 D
XAB$B_REF          = 00000017 D
YAB$B_SIZ0         = 0000002E D
XAB$B_SIZ1         = 0000002F D
XAB$B_SIZ2         = 00000030 D
XAB$B_SIZ3         = 00000031 D
XAB$B_SIZ4         = 00000032 D
XAB$B_SIZ5         = 00000033 D
XAB$B_SIZ6         = 00000034 D
XAB$B_SIZ7         = 00000035 D
XAB$C_KEY          = 00000015 D
XAB$C_KEYLEN       = 0000004C D
XAB$C_STG          = 00000000 D
XAB$C_KNM          = 00000038 D
XAB$C_NXT          = 00000004 D
XAB$V_CHG          = 00000001 D
XAB$V_DUP          = 00000000 D
XAB$W_DFL          = 0000001C D
XAB$W_IFL          = 0000001A D
XAB$W_POS0         = 0000001E D
XAB$W_POS1         = 00000020 D
XAB$W_POS2         = 00000022 D
XAB$W_POS3         = 00000024 D
XAB$W_POS4         = 00000026 D
XAB$W_POS5         = 00000028 D
XAB$W_POS6         = 0000002A D
XAB$W_POS7         = 0000002C D
XAB0               000000F4 R D 03
XAB1               00000140 R D 03
XAB2               0000018C R D 03
XAB3               000001D8 R D 03
XAB4               00000224 R D 03
XAB5               00000270 R D 03
XAB6               000002BC R D 03
XAB7               00000308 R D 03
    
```

↑-----↑
! Psect synopsis !
↑-----↑

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
RMSTEST	00000BE0 (3040.)	01 (1.)	NOPIC USR CON REL GBL NOSHR EXE RD WRT NOVEC LONG
XAB\$B	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
DATA	00000354 (852.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG
\$RMSNAM	00000014 (20.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
--\$RMSNAM	00000074 (116.)	05 (5.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:01.10
Command processing	105	00:00:00.52	00:00:02.05
Pass 1	403	00:00:19.93	00:00:53.16
Symbol table sort	8	00:00:01.03	00:00:02.17
Pass 2	124	00:00:03.96	00:00:09.57
Symbol table output	19	00:00:00.15	00:00:00.56
Psect synopsis output	3	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	693	00:00:25.71	00:01:08.65

The working set limit was 1350 pages.
95037 bytes (186 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 861 non-local and 5 local symbols.
545 source lines were read in Pass 1, producing 67 object records in Pass 2.
58 pages of virtual memory were used to define 44 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	34
TOTALS (all libraries)	34

1333 GETS were required to define 34 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSTEST8/OBJ=OBJ\$:RMSTEST8 MSRC\$:RMSTEST8/UPDATE=(ENH\$:RMSTEST8)+EXECMLS/LIB

0409 AH-BT13A-SE
VAX/VMS V4.0

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