


```

PPPPPPPP      AAAAAA      SSSSSSSS      CCCCCCCC      000000      NN      NN      VV      VV      EEEEEEEEEEE      RRRRRRRR
PPPPPPPP      AAAAAA      SSSSSSSS      CCCCCCCC      000000      NN      NN      VV      VV      EEEEEEEEEEE      RRRRRRRR
PP      PP      AA      AA      SS      CC      00      00      NN      NN      VV      VV      EE      RR      RR
PP      FP      AA      AA      SS      CC      00      00      NN      NN      VV      VV      EE      RR      RR
PP      PP      AA      AA      SS      CC      00      00      NNNN      NN      VV      VV      EE      RR      RR
PP      PP      AA      AA      SS      CC      00      00      NNNN      NN      VV      VV      EE      RR      RR
PPPPPPPP      AA      AA      SSSSSS      CC      00      00      NN      NN      VV      VV      EEEEEEEEE      RRRRRRRR
PPPPPPPP      AA      AA      SSSSSS      CC      00      00      NN      NN      VV      VV      EEEEEEEEE      RRRRRRRR
PP      AAAAAAAAAA      SS      CC      00      00      NN      NNNN      VV      VV      EE      RR      RR
PP      AAAAAAAAAA      SS      CC      00      00      NN      NNNN      VV      VV      EE      RR      RR
PP      AA      AA      SS      CC      00      00      NN      NN      VV      VV      EE      RR      RR
PP      AA      AA      SS      CC      00      00      NN      NN      VV      VV      EE      RR      RR
PP      AA      AA      SSSSSSSS      CCCCCCCC      000000      NN      NN      VV      VV      EEEEEEEEEEE      RR      RR
PP      AA      AA      SSSSSSSS      CCCCCCCC      000000      NN      NN      VV      VV      EEEEEEEEEEE      RR      RR

```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

(2)	46	DECLARATIONS
(3)	75	PASS\$CONVERT_L_BU = Convert signed longword to unsigned byte
(4)	118	PASS\$CONVERT_BO_L = Convert unsigned byte to signed longword
(5)	155	PASS\$CONVERT_WU_L = Convert unsigned word to signed longword
(6)	192	PASS\$CONVERT_L_L = Convert signed longword to signed longword
(7)	229	PASS\$CONVERT_LO_L = Convert unsigned longword to signed longword
(8)	271	PASS\$CONVERT_BOOL_L = Convert boolean to signed longword
(9)	309	PASS\$ROUND_F_LU = Round F_floating to unsigned longword
(10)	345	PASS\$ROUND_D_LU = Round D_floating to unsigned longword
(11)	381	PASS\$ROUND_G_LU = Round G_floating to unsigned longword
(12)	417	PASS\$ROUND_H_LU = Round H_floating to unsigned longword
(13)	453	PAS\$TRUNC_F_LU = Truncate F_floating to unsigned longword
(14)	489	PAS\$TRUNC_D_LU = Truncate D_floating to unsigned longword
(15)	525	PAS\$TRUNC_G_LU = Truncate G_floating to unsigned longword
(16)	561	PAS\$TRUNC_H_LU = Truncate H_floating to unsigned longword
(17)	597	PASS\$CONVERT_LU_F = Convert unsigned longword to F_floating
(18)	637	PASS\$CONVERT_F_F = Convert F_floating to F_floating
(19)	674	PASS\$CONVERT_H_F = Convert H_floating to F_floating
(20)	711	PASS\$CONVERT_LO_D = Convert unsigned longword to D_floating
(21)	750	PASS\$CONVERT_D_D = Convert D_floating to D_floating
(22)	787	PASS\$CONVERT_H_D = Convert H_floating to D_floating
(23)	824	PASS\$CONVERT_LO_G = Convert unsigned longword to G_floating
(24)	863	PASS\$CONVERT_G_G = Convert G_floating to G_floating
(25)	900	PASS\$CONVERT_H_G = Convert H_floating to G_floating
(26)	937	PASS\$CONVERT_L_H = Convert signed longword to H_floating
(27)	975	PASS\$CONVERT_LO_H = Convert unsigned longword to H_floating
(28)	1015	PASS\$CONVERT_F_H = Convert F_floating to H_floating
(29)	1053	PASS\$CONVERT_D_H = Convert D_floating to H_floating
(30)	1091	PASS\$CONVERT_G_H = Convert G_floating to H_floating
(31)	1129	PASS\$CONVERT_H_H = Convert H_floating to H_floating

```
0000 1 .TITLE PASSCONVERT - Pascal-specific conversion routines
0000 2 .IDENT /1-001/ ; File: PASCONVER.MAR Edit: SBL1001
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: Pascal Language Support
0000 31 :
0000 32 : ABSTRACT:
0000 33 :
0000 34 : This module contains all Pascal-specific arithmetic conversion
0000 35 : routines.
0000 36 :
0000 37 : ENVIRONMENT: Runs at any access mode, AST Reentrant
0000 38 :
0000 39 : AUTHOR: Steven B. Lionel, CREATION DATE: 04-NOV-1980
0000 40 :
0000 41 : MODIFIED BY:
0000 42 :
0000 43 : 1-001 - Original. SBL 4-NOV-1980
0000 44 :--
```



```

0000 75      .SBTTL PASS$CONVERT_L_BU - Convert signed longword to unsigned byte
0000 76      :++
0000 77      : FUNCTIONAL DESCRIPTION:
0000 78      :
0000 79      : Converts a signed longword to an unsigned byte with possible
0000 80      : overflow.
0000 81      :
0000 82      : CALLING SEQUENCE:
0000 83      :
0000 84      : Result.wbu.v = PASS$CONVERT_L_BU (long.rl.r)
0000 85      :
0000 86      : FORMAL PARAMETERS:
0000 87      :
0000 88      : long - signed longword argument
0000 89      :
0000 90      : IMPLICIT INPUTS:
0000 91      :
0000 92      : NONE
0000 93      :
0000 94      : IMPLICIT OUTPUTS:
0000 95      :
0000 96      : NONE
0000 97      :
0000 98      : ROUTINE VALUE:
0000 99      :
0000 100     : The unsigned byte value of the argument
0000 101     :
0000 102     : SIDE EFFECTS:
0000 103     :
0000 104     : $$$_INTOVF - If argument negative or greater than 255. If continued,
0000 105     : the low 8 bits are stored.
0000 106     :
0000 107     :--
0000 108     :
4000 109     .ENTRY PASS$CONVERT_L_BU, ^M<IV> ; Entry point
0002 110
00000FF 8F 04 BC D1 0002 111      CMPL @4(AP), #255 ; Will value overflow?
0000 112      BLEQU 10$ ; No
0000 113      MOVZWL #$$$_INTOVF, -(SP)
00000000'GF 01 FB 0011 114      CALLS #1, G^LIB$$SIGNAL ; Signal integer overflow
0000 115      MOVZBL @4(AP), R0 ; Convert
0000 116      RET ; End of routine PASS$CONVERT_L_BU
    
```

```

001D 118      .SBTTL  PASS$CONVERT_BU_L = Convert unsigned byte to signed longword
001D 119      :++
001D 120      : FUNCTIONAL DESCRIPTION:
001D 121      :
001D 122      :     Converts an unsigned byte to a signed longword.
001D 123      :
001D 124      : CALLING SEQUENCE:
001D 125      :
001D 126      :     Result.wl.v = PASS$CONVERT_BU_L (Byte.rbu.r)
001D 127      :
001D 128      : FORMAL PARAMETERS:
001D 129      :
001D 130      :     Byte   - Unsigned byte argument
001D 131      :
001D 132      : IMPLICIT INPUTS:
001D 133      :
001D 134      :     NONE
001D 135      :
001D 136      : IMPLICIT OUTPUTS:
001D 137      :
001D 138      :     NONE
001D 139      :
001D 140      : ROUTINE VALUE:
001D 141      :
001D 142      :     The argument zero-extended to a longword
001D 143      :
001D 144      : SIDE EFFECTS:
001D 145      :
001D 146      :     NONE
001D 147      :
001D 148      :--
001D 149      :
4000 001D 150      .ENTRY  PASS$CONVERT_BU_L, ^M<IV> ; Entry point
001F 151
50 04 BC 9A 001F 152      MOVZBL @4(AP), R0      ; Convert
04 0023 153      RET          ; End of routine PASS$CONVERT_BU_L

```

```

0024 155      .SBTTL  PASS$CONVERT_WU_L = Convert unsigned word to signed longword
0024 156      :++
0024 157      : FUNCTIONAL DESCRIPTION:
0024 158      :
0024 159      :     Converts an unsigned word to a signed longword.
0024 160      :
0024 161      : CALLING SEQUENCE:
0024 162      :
0024 163      :     Result.wl.v = PASS$CONVERT_WU_L (Word.rwu.r)
0024 164      :
0024 165      : FORMAL PARAMETERS:
0024 166      :
0024 167      :     Word      - Unsigned word argument
0024 168      :
0024 169      : IMPLICIT INPUTS:
0024 170      :
0024 171      :     NONE
0024 172      :
0024 173      : IMPLICIT OUTPUTS:
0024 174      :
0024 175      :     NONE
0024 176      :
0024 177      : ROUTINE VALUE:
0024 178      :
0024 179      :     The argument zero-extended to a longword
0024 180      :
0024 181      : SIDE EFFECTS:
0024 182      :
0024 183      :     NONE
0024 184      :
0024 185      :--
0024 186      :
4000 0024 187      .ENTRY PASS$CONVERT_WU_L, ^M<IV> ; Entry point
0026 188
50   04 BC 3C 0026 189      MOVZWL @4(AP), R0      ; Convert
002A 190      RET          ; End of routine PASS$CONVERT_WU_L

```



```

002B 192 .SBTT! PASS$CONVERT_L_L = Convert signed longword to signed longword
002B 193 :++
002B 194 : FUNCTIONAL DESCRIPTION:
002B 195 :
002B 196 :     Converts a signed longword to a signed longword.
002B 197 :
002B 198 : CALLING SEQUENCE:
002B 199 :
002B 200 :     Result.wl.v = PASS$CONVERT_L_L (Long.rl.r)
002B 201 :
002B 202 : FORMAL PARAMETERS:
002B 203 :
002B 204 :     Long    - Signed longword argument
002B 205 :
002B 206 : IMPLICIT INPUTS:
002B 207 :
002B 208 :     NONE
002B 209 :
002B 210 : IMPLICIT OUTPUTS:
002B 211 :
002B 212 :     NONE
002B 213 :
002B 214 : ROUTINE VALUE:
002B 215 :
002B 216 :     The argument sign-extended to a longword
002B 217 :
002B 218 : SIDE EFFECTS:
002B 219 :
002B 220 :     NONE
002B 221 :
002B 222 :--
002B 223 :
4000 002B 224 .ENTRY PASS$CONVERT_L_L, ^M<IV> ; Entry point
50 04 BC D0 002D 225 ; Convert
04 0031 226 MOVL @4(AP), R0 ;
0031 227 RET ; End of routine PASS$CONVERT_L_L
    
```

```

0032 229 .SBTTL PASS$CONVERT_LU_L = Convert unsigned longword to signed longword
0032 230 :++
0032 231 : FUNCTIONAL DESCRIPTION:
0032 232 :
0032 233 : Converts an unsigned longword to a signed longword with possible
0032 234 : overflow.
0032 235 :
0032 236 : CALLING SEQUENCE:
0032 237 :
0032 238 : Result.wl.v = PASS$CONVERT_LU_L (Long.rlu.r)
0032 239 :
0032 240 : FORMAL PARAMETERS:
0032 241 :
0032 242 : Long - Unsigned longword argument
0032 243 :
0032 244 : IMPLICIT INPUTS:
0032 245 :
0032 246 : NONE
0032 247 :
0032 248 : IMPLICIT OUTPUTS:
0032 249 :
0032 250 : NONE
0032 251 :
0032 252 : ROUTINE VALUE:
0032 253 :
0032 254 : The argument zero-extended to a longword
0032 255 :
0032 256 : SIDE EFFECTS:
0032 257 :
0032 258 : $$$_INTOVF - If argument is greater than 2**31-1. If continued,
0032 259 : the argument is stored directly into the result.
0032 260 :
0032 261 :--
0032 262 :
4000 0032 263 .ENTRY PASS$CONVERT_LU_L, ^M<IV> ; Entry point
0034 264
50 04 BC D0 0034 265 MOVL @4(AP), R0 ; Fetch argument
7E 047C 8F 3C 0038 266 BGEQ 10$ ; If not negative, ok
00000000'GF 01 FB 003A 267 MOVZWL #$$$_INTOVF, -(SP) ; Signal integer overflow
04 0046 268 CALLS #1, G^LIB$SIGNAL
269 10$: RET ; End of routine PASS$CONVERT_LU_L

```

```

0047 271      .SBTTL PASS$CONVERT_BOOL_L - Convert boolean to signed longword
0047 272      :++
0047 273      : FUNCTIONAL DESCRIPTION:
0047 274      :
0047 275      :     Convert boolean to signed longword.
0047 276      :
0047 277      : CALLING SEQUENCE:
0047 278      :
0047 279      :     Result.wl.v = PASS$CONVERT_BOOL_L (Bool.rv.r)
0047 280      :
0047 281      : FORMAL PARAMETERS:
0047 282      :
0047 283      :     Bool      - Boolean argument
0047 284      :
0047 285      : IMPLICIT INPUTS:
0047 286      :
0047 287      :     NONE
0047 288      :
0047 289      : IMPLICIT OUTPUTS:
0047 290      :
0047 291      :     NONE
0047 292      :
0047 293      : ROUTINE VALUE:
0047 294      :
0047 295      :     The low bit of the argument zero-extended to a longword.
0047 296      :
0047 297      : SIDE EFFECTS:
0047 298      :
0047 299      :     NONE
0047 300      :
0047 301      :--
0047 302
4000 0047 303      .ENTRY PASS$CONVERT_BOOL_L, ^M<IV>      ; Entry point
50   04 BC  9A 0049 304
50   FE 8F  8A 004D 305      MOVZBL  @4(AP), R0      ; Get low byte
                                BICB2  #^XFE, R0      ; Convert
                                RET      ; End of routine PASS$CONVERT_BOOL_L
0051 0051 307

```

```

0052 309 .SBTTL PASS$ROUND_F_LU - Round F_floating to unsigned longword
0052 310 :++
0052 311 : FUNCTIONAL DESCRIPTION:
0052 312 :
0052 313 : Round an F_floating to an unsigned longword, without overflow.
0052 314 :
0052 315 : CALLING SEQUENCE:
0052 316 :
0052 317 : Result.wlu.v = PASS$ROUND_F_LU (Single.rf.r)
0052 318 :
0052 319 : FORMAL PARAMETERS:
0052 320 :
0052 321 : Single - F_floating argument
0052 322 :
0052 323 : IMPLICIT INPUTS:
0052 324 :
0052 325 : NONE
0052 326 :
0052 327 : IMPLICIT OUTPUTS:
0052 328 :
0052 329 : NONE
0052 330 :
0052 331 : ROUTINE VALUE:
0052 332 :
0052 333 : The argument rounded to the nearest integer modulus 2**32.
0052 334 :
0052 335 : SIDE EFFECTS:
0052 336 :
0052 337 : NONE
0052 338 :
0052 339 :--
0000 0052 340 .ENTRY PASS$ROUND_F_LU, ^M<> ; IV must be disabled
50 04 BC 4B 0054 341
04 0054 342 CVTRFL @4(AP), R0 ; Round
0058 343 RET ; End of routine PASS$ROUND_F_LU

```

```

0059 345      .SBTTL  PASS$ROUND_D_LU - Round D_floating to unsigned longword
0059 346      :++
0059 347      : FUNCTIONAL DESCRIPTION:
0059 348      :
0059 349      :     Round a D_floating to an unsigned longword, without overflow.
0059 350      :
0059 351      : CALLING SEQUENCE:
0059 352      :
0059 353      :     Result.wlu.v = PASS$ROUND_D_LU (Double.rd.r)
0059 354      :
0059 355      : FORMAL PARAMETERS:
0059 356      :
0059 357      :     Double - D_floating argument
0059 358      :
0059 359      : IMPLICIT INPUTS:
0059 360      :
0059 361      :     NONE
0059 362      :
0059 363      : IMPLICIT OUTPUTS:
0059 364      :
0059 365      :     NONE
0059 366      :
0059 367      : ROUTINE VALUE:
0059 368      :
0059 369      :     The argument rounded to the nearest integer modulus 2**32.
0059 370      :
0059 371      : SIDE EFFECTS:
0059 372      :
0059 373      :     NONE
0059 374      :
0059 375      :--
0000 0059 376      .ENTRY  PASS$ROUND_D_LU, ^M<>      ; IV must be disabled
005B 0059 377
50  04 BC 68 005B 378      CVTRDL @4(AP), R0      ; Round
04 005F 379      RET      ; End of routine PASS$ROUND_D_LU

```

```

0060 381 .SBTTL PASSROUND_G_LU - Round G_floating to unsigned longword
0060 382 :++
0060 383 : FUNCTIONAL DESCRIPTION:
0060 384 :
0060 385 : Round a G_floating to an unsigned longword, without overflow.
0060 386 :
0060 387 : CALLING SEQUENCE:
0060 388 :
0060 389 : Result.wlu.v = PASSROUND_G_LU (Double.rg.r)
0060 390 :
0060 391 : FORMAL PARAMETERS:
0060 392 :
0060 393 : Double - G_floating argument
0060 394 :
0060 395 : IMPLICIT INPUTS:
0060 396 :
0060 397 : NONE
0060 398 :
0060 399 : IMPLICIT OUTPUTS:
0060 400 :
0060 401 : NONE
0060 402 :
0060 403 : ROUTINE VALUE:
0060 404 :
0060 405 : The argument rounded to the nearest integer modulus 2**32.
0060 406 :
0060 407 : SIDE EFFECTS:
0060 408 :
0060 409 : NONE
0060 410 :
0060 411 :--
0000 0060 412 .ENTRY PASSROUND_G_LU, ^M<> ; IV must be disabled
0062 413
50 04 6C 4BFD 0062 414 CVTRGL @4(AP), R0 ; Round
04 0067 415 RET ; End of routine PASSROUND_G_LU

```

```

0068 417 .SBTTL PASSROUND_H_LU - Round H_floating to unsigned longword
0068 418 :++
0068 419 : FUNCTIONAL DESCRIPTION:
0068 420 :
0068 421 : Round an H_floating to an unsigned longword, without overflow.
0068 422 :
0068 423 : CALLING SEQUENCE:
0068 424 :
0068 425 : Result.wlu.v = PASSROUND_H_LU (Quad.rh.r)
0068 426 :
0068 427 : FORMAL PARAMETERS:
0068 428 :
0068 429 : Quad - H_floating argument
0068 430 :
0068 431 : IMPLICIT INPUTS:
0068 432 :
0068 433 : NONE
0068 434 :
0068 435 : IMPLICIT OUTPUTS:
0068 436 :
0068 437 : NONE
0068 438 :
0068 439 : ROUTINE VALUE:
0068 440 :
0068 441 : The argument rounded to the nearest integer modulus 2**32.
0068 442 :
0068 443 : SIDE EFFECTS:
0068 444 :
0068 445 : NONE
0068 446 :
0068 447 :--
0000 0068 448 .ENTRY PASSROUND_H_LU, ^M<> ; IV must be disabled
006A 006A 449 ;
50 04 BC 6BFD 006A 450 CVTRHL @4(AP), R0 ; Round
04 006F 451 RET ; End of routine PASSROUND_H_LU

```

```

0070 453      .SBTTL PAS$TRUNC_F_LU - Truncate F_floating to unsigned longword
0070 454      :++
0070 455      : FUNCTIONAL DESCRIPTION:
0070 456      :
0070 457      :     Truncate an F_floating to an unsigned longword, without overflow.
0070 458      :
0070 459      : CALLING SEQUENCE:
0070 460      :
0070 461      :     Result.wlu.v = PAS$TRUNC_F_LU (Single.rf.r)
0070 462      :
0070 463      : FORMAL PARAMETERS:
0070 464      :
0070 465      :     Single - F_floating argument
0070 466      :
0070 467      : IMPLICIT INPUTS:
0070 468      :
0070 469      :     NONE
0070 470      :
0070 471      : IMPLICIT OUTPUTS:
0070 472      :
0070 473      :     NONE
0070 474      :
0070 475      : ROUTINE VALUE:
0070 476      :
0070 477      :     The argument truncated to the nearest integer modulus 2**32.
0070 478      :
0070 479      : SIDE EFFECTS:
0070 480      :
0070 481      :     NONE
0070 482      :
0070 483      :--
0000 0070 484      .ENTRY PAS$TRUNC_F_LU, ^M<>      ; IV must be disabled
50 04 BC 4A 0072 485
04 0072 486      CVTFL @4(AP), R0      ; Truncate
0076 487      RET      ; End of routine PAS$TRUNC_F_LU
  
```



```

0077 489      .SBTTL PAS$TRUNC_D_LU - Truncate D_floating to unsigned longword
0077 490      :++
0077 491      : FUNCTIONAL DESCRIPTION:
0077 492      :
0077 493      :     Truncate a D_floating to an unsigned longword, without overflow.
0077 494      :
0077 495      : CALLING SEQUENCE:
0077 496      :
0077 497      :     Result.wLu.v = PAS$TRUNC_D_LU (Double.rd.r)
0077 498      :
0077 499      : FORMAL PARAMETERS:
0077 500      :
0077 501      :     Double - D_floating argument
0077 502      :
0077 503      : IMPLICIT INPUTS:
0077 504      :
0077 505      :     NONE
0077 506      :
0077 507      : IMPLICIT OUTPUTS:
0077 508      :
0077 509      :     NONE
0077 510      :
0077 511      : ROUTINE VALUE:
0077 512      :
0077 513      :     The argument truncated to the nearest integer modulus 2**32.
0077 514      :
0077 515      : SIDE EFFECTS:
0077 516      :
0077 517      :     NONE
0077 518      :
0077 519      :--
0000 0077 520      .ENTRY PAS$TRUNC_D_LU, ^M<>      ; IV must be disabled
0079 521
50 04 BC 6A 0079 522      CVTDL @4(AP), R0      ; Truncate
04 007D 523      RET      ; End of routine PAS$TRUNC_D_LU

```

```

007E 525      .SBTTL PAS$TRUNC_G_LU - Truncate G_floating to unsigned longword
007E 526      :++
007E 527      : FUNCTIONAL DESCRIPTION:
007E 528      :
007E 529      :     Truncate a G_floating to an unsigned longword, without overflow.
007E 530      :
007E 531      : CALLING SEQUENCE:
007E 532      :
007E 533      :     Result.wlu.v = PAS$TRUNC_G_LU (Double.rg.r)
007E 534      :
007E 535      : FORMAL PARAMETERS:
007E 536      :
007E 537      :     Double - G_floating argument
007E 538      :
007E 539      : IMPLICIT INPUTS:
007E 540      :
007E 541      :     NONE
007E 542      :
007E 543      : IMPLICIT OUTPUTS:
007E 544      :
007E 545      :     NONE
007E 546      :
007E 547      : ROUTINE VALUE:
007E 548      :
007E 549      :     The argument truncated to the nearest integer modulus 2**32.
007E 550      :
007E 551      : SIDE EFFECTS:
007E 552      :
007E 553      :     NONE
007E 554      :
007E 555      :--
0000 007E 556      .ENTRY PAS$TRUNC_G_LU, ^M<>      ; IV must be disabled
0080 007E 557
50 04 BC 4AFD 0080 558      CVTGL @4(AP), R0      ; Truncate
04 0085 559      RET      ; End of routine PAS$TRUNC_G_LU

```



```

008E 597      .SBTTL PASS$CONVERT_LU_F = Convert unsigned longword to F_floating
008E 598      :++
008E 599      : FUNCTIONAL DESCRIPTION:
008E 600      :
008E 601      :     Converts an unsigned longword to an F_floating, rounded.
008E 602      :
008E 603      : CALLING SEQUENCE:
008E 604      :
008E 605      :     Result.wf.v = PASS$CONVERT_LU_F (Long.rlu.r)
008E 606      :
008E 607      : FORMAL PARAMETERS:
008E 608      :
008E 609      :     Long   - Unsigned longword argument
008E 610      :
008E 611      : IMPLICIT INPUTS:
008E 612      :
008E 613      :     NONE
008E 614      :
008E 615      : IMPLICIT OUTPUTS:
008E 616      :
008E 617      :     NONE
008E 618      :
008E 619      : ROUTINE VALUE:
008E 620      :
008E 621      :     The argument rounded to the nearest F_floating value.
008E 622      :
008E 623      : SIDE EFFECTS:
008E 624      :
008E 625      :     NONE
008E 626      :
008E 627      :--
008E 628      :
4000 008E 629      .ENTRY PASS$CONVERT_LU_F, ^M<IV> ; Entry point
0090 630
50   04 BC 6E 0090 631      CVTLD @4(AP), R0      ; Convert to D_floating
0094 632      BGEQ 10$      ; If not negative, don't compensate
50   00000000 00005080 8F 60 0096 633      ADDD2 #^X5080, R0      ; Add 2**32
      50 50 76 00A1 634 10$: CVTDF R0, R0      ; Round to F_floating
      04 00A4 635      RET      ; End of routine PASS$CONVERT_LU_F

```

```

00A5 637      .SBTTL PASS$CONVERT_F_F = Convert F_floating to F_floating
00A5 638      :++
00A5 639      : FUNCTIONAL DESCRIPTION:
00A5 640      :
00A5 641      :     Converts an F_floating to an F_floating.
00A5 642      :
00A5 643      : CALLING SEQUENCE:
00A5 644      :
00A5 645      :     Result.wf.v = PASS$CONVERT_F_F (Single.rf.r)
00A5 646      :
00A5 647      : FORMAL PARAMETERS:
00A5 648      :
00A5 649      :     Single - F_floating argument
00A5 650      :
00A5 651      : IMPLICIT INPUTS:
00A5 652      :
00A5 653      :     NONE
00A5 654      :
00A5 655      : IMPLICIT OUTPUTS:
00A5 656      :
00A5 657      :     NONE
00A5 658      :
00A5 659      : ROUTINE VALUE:
00A5 660      :
00A5 661      :     The argument converted to F_floating
00A5 662      :
00A5 663      : SIDE EFFECTS:
00A5 664      :
00A5 665      :     $$$_ROPRAND - if the argument is a reserved operand
00A5 666      :
00A5 667      :--
00A5 668      :
4000 00A5 669      .ENTRY PASS$CONVERT_F_F, ^M<IV> ; Entry point
00A7 670
50   04 BC 50 00A7 671      MOVF   @4(AP), R0      ; Convert
00AB 672      RET           ; End of routine PASS$CONVERT_F_F
  
```

```
00AC 674 .SBTTL PASS$CONVERT_H_F = Convert H_floating to F_floating
00AC 675 :++
00AC 676 : FUNCTIONAL DESCRIPTION:
00AC 677 :
00AC 678 : Converts an H_floating to an F_floating.
00AC 679 :
00AC 680 : CALLING SEQUENCE:
00AC 681 :
00AC 682 : Result.wf.v = PASS$CONVERT_H_F (Quad.rh.r)
00AC 683 :
00AC 684 : FORMAL PARAMETERS:
00AC 685 :
00AC 686 : Quad - H_floating argument
00AC 687 :
00AC 688 : IMPLICIT INPUTS:
00AC 689 :
00AC 690 : NONE
00AC 691 :
00AC 692 : IMPLICIT OUTPUTS:
00AC 693 :
00AC 694 : NONE
00AC 695 :
00AC 696 : ROUTINE VALUE:
00AC 697 :
00AC 698 : The argument converted to F_floating
00AC 699 :
00AC 700 : SIDE EFFECTS:
00AC 701 :
00AC 702 : $$$_ROPRAND - if the argument is a reserved operand
00AC 703 :
00AC 704 :--
00AC 705 :
4000 00AC 706 .ENTRY PASS$CONVERT_H_F, ^M<IV> ; Entry point
00AE 707
50 04 BC F6FD 00AE 708 CVTHF @4(AP), R0 ; Convert
04 00B3 709 RET ; End of routine PASS$CONVERT_H_F
```

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```

00B4 711      .SBTTL PASS$CONVERT_LU_D = Convert unsigned longword to D_floating
00B4 712      :++
00B4 713      : FUNCTIONAL DESCRIPTION:
00B4 714      :
00B4 715      :     Converts an unsigned longword to a D_floating.
00B4 716      :
00B4 717      : CALLING SEQUENCE:
00B4 718      :
00B4 719      :     Result.wd.v = PASS$CONVERT_LU_D (Long.rlu.r)
00B4 720      :
00B4 721      : FORMAL PARAMETERS:
00B4 722      :
00B4 723      :     Long   - Unsigned longword argument
00B4 724      :
00B4 725      : IMPLICIT INPUTS:
00B4 726      :
00B4 727      :     NONE
00B4 728      :
00B4 729      : IMPLICIT OUTPUTS:
00B4 730      :
00B4 731      :     NONE
00B4 732      :
00B4 733      : ROUTINE VALUE:
00B4 734      :
00B4 735      :     The argument converted to a D_floating value.
00B4 736      :
00B4 737      : SIDE EFFECTS:
00B4 738      :
00B4 739      :     NONE
00B4 740      :
00B4 741      :--
00B4 742      :
4000 00B4 743      .ENTRY PASS$CONVERT_LU_D, ^M<IV> ; Entry point
00B6 744      :
50   04 BC 6E 00B6 745      CVTLD  @4(AP), R0      ; Convert to D_floating
00B6 746      BGEQ  10$      ; If not negative, don't compensate
50   00000000 00005080 8F 60 00BC 747      ADDD2  #^X5080, R0      ; Add 2**32
04   00C7 748 10$:  RET      ; End of routine PASS$CONVERT_LU_D

```

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Ma
-
-
-
46
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MA

```

00C8 750      .SBTTL PASS$CONVERT_D_D = Convert D_floating to D_floating
00C8 751      :++
00C8 752      : FUNCTIONAL DESCRIPTION:
00C8 753      :
00C8 754      :     Converts an D_floating to a D_floating.
00C8 755      :
00C8 756      : CALLING SEQUENCE:
00C8 757      :
00C8 758      :     Result.wd.v = PASS$CONVERT_D_D (Double.rd.r)
00C8 759      :
00C8 760      : FORMAL PARAMETERS:
00C8 761      :
00C8 762      :     Double - D_floating argument
00C8 763      :
00C8 764      : IMPLICIT INPUTS:
00C8 765      :
00C8 766      :     NONE
00C8 767      :
00C8 768      : IMPLICIT OUTPUTS:
00C8 769      :
00C8 770      :     NONE
00C8 771      :
00C8 772      : ROUTINE VALUE:
00C8 773      :
00C8 774      :     The argument converted to D_floating
00C8 775      :
00C8 776      : SIDE EFFECTS:
00C8 777      :
00C8 778      :     $$$_ROPRAND - if the argument is a reserved operand
00C8 779      :
00C8 780      :--
00C8 781
4000 00C8 782      .ENTRY PASS$CONVERT_D_D, ^M<IV> ; Entry point
00CA 783
50 04 BC 70 00CA 784      MOVD @4(AP), R0 ; Convert
04 00CE 785      RET ; End of routine PASS$CONVERT_D_D
  
```



```

00CF 787 .SBTTL PASS$CONVERT_H_D = Convert H_floating to D_floating
00CF 788 :++
00CF 789 : FUNCTIONAL DESCRIPTION:
00CF 790 :
00CF 791 :     Converts an H_floating to a D_floating.
00CF 792 :
00CF 793 : CALLING SEQUENCE:
00CF 794 :
00CF 795 :     Result.wd.v = PASS$CONVERT_H_D (Quad.rh.r)
00CF 796 :
00CF 797 : FORMAL PARAMETERS:
00CF 798 :
00CF 799 :     Quad    - H_floating argument
00CF 800 :
00CF 801 : IMPLICIT INPUTS:
00CF 802 :
00CF 803 :     NONE
00CF 804 :
00CF 805 : IMPLICIT OUTPUTS:
00CF 806 :
00CF 807 :     NONE
00CF 808 :
00CF 809 : ROUTINE VALUE:
00CF 810 :
00CF 811 :     The argument converted to D_floating
00CF 812 :
00CF 813 : SIDE EFFECTS:
00CF 814 :
00CF 815 :     SSS$ROPRAND - if the argument is a reserved operand
00CF 816 :
00CF 817 : --
00CF 818 :
4000 00CF 819 .ENTRY PASS$CONVERT_H_D, ^M<IV> ; Entry point
00D1 820
50 04 BC F7FD 00D1 821 CVTHD @4(AP), R0 ; Convert
04 00D6 822 RET ; End of routine PASS$CONVERT_H_D

```

```

00D7 824 .SBTTL PASS$CONVERT_LU_G = Convert unsigned longword to G_floating
00D7 825 :++
00D7 826 : FUNCTIONAL DESCRIPTION:
00D7 827 :
00D7 828 : Converts an unsigned longword to a G_floating.
00D7 829 :
00D7 830 : CALLING SEQUENCE:
00D7 831 :
00D7 832 : Result.wg.v = PASS$CONVERT_LU_G (Long.rlu.r)
00D7 833 :
00D7 834 : FORMAL PARAMETERS:
00D7 835 :
00D7 836 : Long - Unsigned longword argument
00D7 837 :
00D7 838 : IMPLICIT INPUTS:
00D7 839 :
00D7 840 : NONE
00D7 841 :
00D7 842 : IMPLICIT OUTPUTS:
00D7 843 :
00D7 844 : NONE
00D7 845 :
00D7 846 : ROUTINE VALUE:
00D7 847 :
00D7 848 : The argument converted to a G_floating value.
00D7 849 :
00D7 850 : SIDE EFFECTS:
00D7 851 :
00D7 852 : NONE
00D7 853 :
00D7 854 :--
00D7 855 :
4000 00D7 856 .ENTRY PASS$CONVERT_LU_G, ^M<IV> ; Entry point
00D9 857
50 04 BC 4EFD 00D9 858 CVTLG @4(AP), R0 ; Convert to G_floating
0C 18 00DE 859 BGEQ 10$ ; If not negative, don't compensate
50 00000000 00004210 8F 40FD 00E0 860 ADDG2 #^X4210, R0 ; Add 2**32
04 00EC 861 10$: RET ; End of routine PASS$CONVERT_LU_G

```

```

OOED 863      .SBTTL PASS$CONVERT_G_G = Convert G_floating to G_floating
OOED 864      :++
OOED 865      : FUNCTIONAL DESCRIPTION:
OOED 866      :
OOED 867      :     Converts a G_floating to a G_floating.
OOED 868      :
OOED 869      : CALLING SEQUENCE:
OOED 870      :
OOED 871      :     Result.wg.v = PASS$CONVERT_G_G (Double.rg.r)
OOED 872      :
OOED 873      : FORMAL PARAMETERS:
OOED 874      :
OOED 875      :     Double - G_floating argument
OOED 876      :
OOED 877      : IMPLICIT INPUTS:
OOED 878      :
OOED 879      :     NONE
OOED 880      :
OOED 881      : IMPLICIT OUTPUTS:
OOED 882      :
OOED 883      :     NONE
OOED 884      :
OOED 885      : ROUTINE VALUE:
OOED 886      :
OOED 887      :     The argument converted to G_floating
OOED 888      :
OOED 889      : SIDE EFFECTS:
OOED 890      :
OOED 891      :     SSS_ROPRAND - if the argument is a reserved operand
OOED 892      :
OOED 893      :--
OOED 894
4000 OOED 895      .ENTRY PASS$CONVERT_G_G, ^M<IV> ; Entry point
OOEF 896
50 04 BC 50FD OOEF 897      MOVG @4(AP), R0 ; Convert
04 00F4 898      RET ; End of routine PASS$CONVERT_G_G

```

```
00F5 900 .SBTTL PASS$CONVERT_H_G = Convert H_floating to G_floating
00F5 901 :++
00F5 902 : FUNCTIONAL DESCRIPTION:
00F5 903 :
00F5 904 :   Conver*s an H_floating to a G_floating.
00F5 905 :
00F5 906 : CALLING SEQUENCE:
00F5 907 :
00F5 908 :   Result.wg.v = PASS$CONVERT_H_G (Quad.rh.r)
00F5 909 :
00F5 910 : FORMAL PARAMETERS:
00F5 911 :
00F5 912 :   Quad   - H_floating argument
00F5 913 :
00F5 914 : IMPLICIT INPUTS:
00F5 915 :
00F5 916 :   NONE
00F5 917 :
00F5 918 : IMPLICIT OUTPUTS:
00F5 919 :
00F5 920 :   NONE
00F5 921 :
00F5 922 : ROUTINE VALUE:
00F5 923 :
00F5 924 :   The argument converted to G_floating
00F5 925 :
00F5 926 : SIDE EFFECTS:
00F5 927 :
00F5 928 :   SSS_ROPRAND - if the argument is a reserved operand
00F5 929 :
00F5 930 :--
00F5 931 :
4000 00F5 932 .ENTRY PASS$CONVERT_H_G, ^M<IV> ; Entry point
00F7 933
50 04 BC 76FD 00F7 934 CVTHG @4(AP), R0 ; Convert
04 00FC 935 RET ; End of routine PASS$CONVERT_H_G
```

```

00FD 937      .SBTTL PASS$CONVERT_L_H = Convert signed longword to H_floating
00FD 938      :++
00FD 939      : FUNCTIONAL DESCRIPTION:
J0FD 940      :
00FD 941      :     Converts a signed longword to an H_floating.
00FD 942      :
00FD 943      : CALLING SEQUENCE:
00FD 944      :
00FD 945      :     CALL PASS$CONVERT_L_H (Result.wh.r, Long.rl.r)
00FD 946      :
00FD 947      : FORMAL PARAMETERS:
00FD 948      :
00FD 949      :     Result - H_floating result
00FD 950      :     Long   - Signed longword argument
00FD 951      :
00FD 952      : IMPLICIT INPUTS:
00FD 953      :
00FD 954      :     NONE
00FD 955      :
00FD 956      : IMPLICIT OUTPUTS:
00FD 957      :
00FD 958      :     NONE
00FD 959      :
00FD 960      : ROUTINE VALUE:
00FD 961      :
00FD 962      :     NONE
00FD 963      :
00FD 964      : SIDE EFFECTS:
00FD 965      :
00FD 966      :     NONE
00FD 967      :
00FD 968      :--
00FD 969      :
04 BC 08 BC 6EFD 00FD 970      .ENTRY PASS$CONVERT_L_H, ^M<IV> ; Entry point
00FF 971      :
04 BC 08 BC 6EFD 00FF 972      CVTLH @8(AP), @4(AP) ; Convert
04 0105 00FF 973      RET ; End of routine PASS$CONVERT_L_H
  
```

```

0106 975 .SBTTL PASS$CONVERT_LU_H = Convert unsigned longword to H_floating
0106 976 :++
0106 977 : FUNCTIONAL DESCRIPTION:
0106 978 :
0106 979 : Converts an unsigned longword to an H_floating.
0106 980 :
0106 981 : CALLING SEQUENCE:
0106 982 :
0106 983 : CALL PASS$CONVERT_LU_H (Result.wh.t, Long.rlu.r)
0106 984 :
0106 985 : FORMAL PARAMETERS:
0106 986 :
0106 987 : Result - H_floating result
0106 988 : Long - Unsigned longword argument
0106 989 :
0106 990 : IMPLICIT INPUTS:
0106 991 :
0106 992 : NONE
0106 993 :
0106 994 : IMPLICIT OUTPUTS:
0106 995 :
0106 996 : NONE
0106 997 :
0106 998 : ROUTINE VALUE:
0106 999 :
0106 1000 : NONE
0106 1001 :
0106 1002 : SIDE EFFECTS:
0106 1003 :
0106 1004 : NONE
0106 1005 :
0106 1006 : --
0106 1007 :
0106 1008 .ENTRY PASS$CONVERT_LU_H, ^M<IV> ; Entry point
0108 1009
0108 1010 CVTLH @8(AP), @4(AP) ; Convert to H_floating
010E 1011 BGEQ 10$ ; If not negative, don't compensate
0110 1012 ADDH2 #^X4021, @4(AP) ; Add 2**32
0112
00000000 00000000 00004021 8F 011F
04 BC 04 BC 00000000 04 0125 1013 10$: RET ; End of routine PASS$CONVERT_LU_H
4000
04 BC 08 BC 6EFD
15 18
60FD

```

```

0126 1015      .SBTTL PASS$CONVERT_F_H = Convert F_floating to H_floating
0126 1016      :++
0126 1017      : FUNCTIONAL DESCRIPTION:
0126 1018      :
0126 1019      :     Converts an F_floating to an H_floating.
0126 1020      :
0126 1021      : CALLING SEQUENCE:
0126 1022      :
0126 1023      :     CALL PASS$CONVERT_F_H (Result.wh.r, Single.rf.r)
0126 1024      :
0126 1025      : FORMAL PARAMETERS:
0126 1026      :
0126 1027      :     Result - H_floating result
0126 1028      :     Single - F_floating argument
0126 1029      :
0126 1030      : IMPLICIT INPUTS:
0126 1031      :
0126 1032      :     NONE
0126 1033      :
0126 1034      : IMPLICIT OUTPUTS:
0126 1035      :
0126 1036      :     NONE
0126 1037      :
0126 1038      : ROUTINE VALUE:
0126 1039      :
0126 1040      :     NONE
0126 1041      :
0126 1042      : SIDE EFFECTS:
0126 1043      :
0126 1044      :     SSS_ROPRAND - if the argument is a reserved operand
0126 1045      :
0126 1046      :--
0126 1047      :
0126 1048      :.ENTRY PASS$CONVERT_F_H, ^M<IV> ; Entry point
0128 1049      :
04 BC 08 BC 98FD 0128 1050      CVTFH @8(AP), @4(AP) ; Convert
04 04 012E 1051      RET ; End of routine PASS$CONVERT_F_H
  
```

```

012F 1053      .SBTTL PASSCONVERT_D_H = Convert D_floating to H_floating
012F 1054      :++
012F 1055      : FUNCTIONAL DESCRIPTION:
012F 1056      :
012F 1057      :     Converts a D_floating to an H_floating.
012F 1058      :
012F 1059      : CALLING SEQUENCE:
012F 1060      :
012F 1061      :     CALL PASSCONVERT_D_H (Result.wh.r, Double.rd.r)
012F 1062      :
012F 1063      : FORMAL PARAMETERS:
012F 1064      :
012F 1065      :     Result - H_floating result
012F 1066      :     Double  - D_floating argument
012F 1067      :
012F 1068      : IMPLICIT INPUTS:
012F 1069      :
012F 1070      :     NONE
012F 1071      :
012F 1072      : IMPLICIT OUTPUTS:
012F 1073      :
012F 1074      :     NONE
012F 1075      :
012F 1076      : ROUTINE VALUE:
012F 1077      :
012F 1078      :     NONE
012F 1079      :
012F 1080      : SIDE EFFECTS:
012F 1081      :
012F 1082      :     SSS_ROPRAND - if the argument is a reserved operand
012F 1083      :
012F 1084      :--
012F 1085      :
012F 1086      :.ENTRY PASSCONVERT_D_H, ^M<IV> ; Entry point
0131 1087
04 BC 08 BC 32FD 0131 1088      CVIDH @8(AP), @4(AP) ; Convert
04 0137 1089      RET ; End of routine PASSCONVERT_D_H
  
```


PASSCONVERT
Symbol table

- Pascal-specific conversion routines

16-SEP-1984 01:23:05 VAX/VMS Macro V04-00
6-SEP-1984 11:30:12 [PASRTL.SRC]PASCONVER.MAR;1

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(31)

```
LIBSSIGNAL          ***** X 00
PASSCONVERT_BOOL_L 00000047 RG 02
PASSCONVERT_BU_L    0000001D RG 02
PASSCONVERT_D_D     000000C8 RG 02
PASSCONVERT_D_H     0000012F RG 02
PASSCONVERT_F_F     000000A5 RG 02
PASSCONVERT_F_H     00000126 RG 02
PASSCONVERT_G_G     000000ED RG 02
PASSCONVERT_G_H     00000138 RG 02
PASSCONVERT_H_D     000000CF RG 02
PASSCONVERT_H_F     000000AC RG 02
PASSCONVERT_H_G     000000F5 RG 02
PASSCONVERT_H_H     00000141 RG 02
PASSCONVERT_LO_D    000000B4 RG 02
PASSCONVERT_LU_F    0000008E RG 02
PASSCONVERT_LU_G    000000D7 RG 02
PASSCONVERT_LU_H    00000106 RG 02
PASSCONVERT_LU_L    00000032 RG 02
PASSCONVERT_L_BU    00000000 RG 02
PASSCONVERT_L_H     000000FD RG 02
PASSCONVERT_L_L     0000002B RG 02
PASSCONVERT_WO_L    00000024 RG 02
PASSROUND_D_LU      00000059 RG 02
PASSROUND_F_LU      00000052 RG 02
PASSROUND_G_LU      00000060 RG 02
PASSROUND_H_LU      00000068 RG 02
PASSTRUNC_D_LU      00000077 RG 02
PASSTRUNC_F_LU      00000070 RG 02
PASSTRUNC_G_LU      0000007E RG 02
PASSTRUNC_H_LU      00000086 RG 02
SS$_INTOVF         = 0000047C
```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_PASSCODE	0000014A (330.)	02 (2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	10	00:00:00.09	00:00:00.97
Command processing	72	00:00:00.60	00:00:03.83
Pass 1	200	00:00:04.92	00:00:18.87
Symbol table sort	0	00:00:00.67	00:00:01.82
Pass 2	190	00:00:02.35	00:00:07.95
Symbol table output	5	00:00:00.04	00:00:00.09
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	481	00:00:08.70	00:00:33.56

PAS
Sym
ACT
BIA
COM
COM
DEC
DES
DIG
DTP
DTP
DTP
DTP
ERR
ERR
EXP
EXP
FIX
FLA
FRA
FRA
LEA
LEA
MAX
M_R
OFF
OTS
OTS
OTS
OTS
PAC
PAS
PAS
PAS
POS
REG
RT
SIG
SIG
SIZ
STR
S_D
S_D
S_D
TRA
VAL

PSE

_PA

The working set limit was 1200 pages.
30776 bytes (61 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 437 non-local and 6 local symbols.
1167 source lines were read in Pass 1, producing 97 object records in Pass 2.
8 pages of virtual memory were used to define 7 macros.

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

Macro library name

Macros defined

_S255SDUA28:[SYSLIB]STARLET.MLB;2

4

469 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:PASCONVER/OBJ=OBJ\$:PASCONVER MSRC\$:PASCONVER/UPDATE=(ENH\$:PASCONVER)

Pha

Ini
Com
Pas
Sym
Sym
Sym
Pse
Cro
Ass

The
746
The
458
0 p

Mac

_S2
0 G
The
MAC

