

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	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	
UUU	UUU	EEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	

_s:
Val
--
000
000
000
7F1
7F1
7F1
7F1
7F1
7F1
7F1
7F1

```

UU      UU  EEEEEEEEE  TTTTTTTTT  FFFFFFFF  000000  RRRRRRR  TTTTTTTTT  000000  222222
UU      UU  EEEEEEEEE  TTTTTTTTT  FFFFFFFF  000000  RRRRRRR  TTTTTTTTT  000000  222222
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UU      UU  EE          TT          FF          00          00  RR          RR  TT          00          00  22          22
UUUUUUUU  EEEEEEEEE  TTTTTTTTT  FFFFFFFF  000000  RRRRRRR  TTTTTTTTT  000000  222222
UUUUUUUU  EEEEEEEEE  TTTTTTTTT  FFFFFFFF  000000  RRRRRRR  TTTTTTTTT  000000  222222

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LL      II  SSSSSSS  SSSSSSS
LL      II  SSSSSSS  SSSSSSS
LL      II  SS       SS
LL      II  SS       SS
LL      II  SS       SS
LL      II  SSSSSS  SSSSSS
LL      II  SSSSSS  SSSSSS
LL      II  SS       SS
LL      II  SS       SS
LL      II  SS       SS
LL      II  SS       SS
LLLLLLLL  IIIIIII  SSSSSSS  SSSSSSS
LLLLLLLL  IIIIIII  SSSSSSS  SSSSSSS

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0024 C*
0025 C*****
0026
0027 C*****P0890010
0028 C***** P0890020
0029 C***** DPSIN - 089 P0890030
0030 C***** P0890040
0031 C*****P0890050
0032 C***** GENERAL PURPOSE ASA REF P0890060
0033 C***** TO TEST BASIC EXTERNAL FUNCTION - DSIN - 8.3.3 P0890070
0034 C***** TRIGONOMETRIC SINE - TYPE DOUBLE PRECISION TABLE 4 P0890080
0035 C***** SAME AS SEGMENT 088 EXCEPT D.P. P0890090
0036 C***** INTRINSIC FUNCTION DSIGN ASSUMED WORKING P0890100
0037 C***** ARGUMENTS FROM 0 TO 2 PI P0890110
0038 C***** P0890120
0039 C***** S P E C I F I C A T I O N S SEGMENT 089 P0890130
0040 C***** P0012050
0041 C***** WHEN EXECUTING ONLY SEGMENT 089, THE SPECIFICATION STATEMENTS P0012055
0042 C***** WHICH APPEAR AS COMMENT CARDS MUST HAVE THE C= P0012060
0043 C***** IN COLUMNS 1 AND 2 REMOVED. P0012065
0044 C***** P0012070
0045 C= DOUBLE PRECISION AVD, BVD, CVD, DVD, EVD, PIVD, XVD, FVD, GVD P0012075
0046 PROGRAM UETFORT02
0047 DOUBLE PRECISION AVD, BVD, CVD, DVD, EVD, PIVD, XVD, FVD, GVD P089A1
0048 C***** P0012080
0049 C***** O U T P U T T A P E ASSIGNMENT STATEMENT. NO INPUT TAPE. P0890140
0050 C***** P0071780
0051 C***** WHEN EXECUTING ONLY SEGMENT 089, THE FOLLOWING STATEMENT P0071785
0052 C***** NUVI = 6 MUST HAVE THE C= IN COLUMNS 1 AND 2 REMOVED. P0071790
0053 C= NUVI = 6 P0071795
0054 NUVI = 6 P089B1
0055 C***** P0071800
0056 890 FORMAT(15H1 DPSIN - (089)//32H BASIC EXTERNAL FUNCTION -DSIN- P0890150
0057 1//33H (TRIGONOMETRIC SINE -TYPE D.P.) P0890160
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0058      2//27H  ASA REF. - 8.3.3 (TABLE 4)//24H  LINE 1 OF EACH PAIR IS/23H  P0890170
0059      3 HOLLERITH INFORMATION//9H  RESULTS) P0890180
0060      WRITE (NUVI, 890) P0890190
0061 C*****  HEADER FOR SEGMENT 089 WRITTEN P0890200
0062      AVD = 3.140625D+0 P0890210
0063      BVD = 0.9613037109375D-3 P0890220
0064      CVD = 0.57220458984375D-5 P0890230
0065      DVD = 0.596046447753906D-6 P0890240
0066      EVD = 0.31786509547056D-7 P0890250
0067 C*****PI IS SUM OF AVD TO EVD, PARTS ARE EXPRESSED IN SUMS OF POWERS OF P0890260
0068 C*****2, TO PERMIT A POSSIBLE 20 DECIMAL DIGIT ARGUMENT TO BE CREATED P0890270
0069      PIVD = EVD + DVD + CVD + BVD + AVD P0890280
0070      FVD = 1.0D0 P0890290
0071      GVD = 2.0D0 P0890300
0072      XVD = DSIN(GVD - 2.0D0 * FVD) P0890310
0073      WRITE (NUVI, 891) XVD P0890320
0074      XVD = DSIN(FVD) P0890330
0075      WRITE (NUVI, 892) XVD P0890340
0076      XVD = DSIN(GVD) P0890350
0077      WRITE (NUVI, 893) XVD P0890360
0078      XVD = DSIN(GVD + FVD) P0890370
0079      WRITE (NUVI, 894) XVD P0890380
0080      XVD = DSIN(PIVD) P0890390
0081      WRITE (NUVI, 895) XVD P0890400
0082      XVD = DSIN(2. * GVD) P0890410
0083      WRITE (NUVI, 896) XVD P0890420
0084      XVD = DSIN(2.0 +FVD + GVD) P0890430
0085      WRITE (NUVI, 897) XVD P0890440
0086      XVD = DSIN(GVD * (FVD + GVD)) P0890450
0087      WRITE (NUVI, 898) XVD P0890460
0088      XVD = DSIN(DSIGN(2.0D0 * PIVD, GVD)) P0890470
0089      WRITE (NUVI, 899) XVD P0890480
0090      WRITE (NUVI, 7890) P0890490
0091 891  FORMAT(9H0 X= 0.0 , 31H  0.0000000000000000000000 / D31.14) P0890500
0092 892  FORMAT(9H0 X= 1.0 , 31H  +0.84147098480789650665250D+00 /D31.14) P0890510
0093 893  FORMAT(9H0 X= 2.0 , 31H  +0.90929742682568169539602D+00 /D31.14) P0890520
0094 894  FORMAT(9H0 X= 3.0 , 31H  +0.14112000805986722210074D+00 /D31.14) P0890530
0095 895  FORMAT(9H0 X= (PI), 31H  0.0000000000000000000000 / D31.14) P0890540
0096 896  FORMAT(9H0 X= 4.0 , 31H  -0.75680249530792825137264D+00 /D31.14) P0890550
0097 897  FORMAT(9H0 X= 5.0 , 31H  -0.95892427466313846889315D+00 / D31.14) P0890560
0098 898  FORMAT(9H0 X= 6.0 , 31H  -0.27941549819892587281156D+00 / D31.14) P0890570
0099 899  FORMAT(9H0 X=(2PI), 31H  0.0000000000000000000000 / D31.14) P0890580
0100 7890  FORMAT(/37H  LINE 2 OF EACH PAIR IS THE FUNCTION/25H  CALCULATION P0890590
0101      A PRINTED TO ,9H14 DIGITS) P0890600
0102 C*****  END OF TEST SEGMENT 089 P0890610
0103 C*****  WHEN EXECUTING ONLY SEGMENT 089, THE STOP AND END CARDS P0890620
0104 C*****  WHICH APPEAR AS COMMENT CARDS MUST HAVE THE C= P0890630
0105 C*****  IN COLUMNS 1 AND 2 REMOVED. P0890640
0106 C= STOP P0890650
0107 C= END P0890660
0108      STOP P089C1
0109      END P089C2

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	601	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	711	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	96	PIC CON REL LCL NOSHR NOEXE RD WRT QUAD
Total Space Allocated		1408

ENTRY POINTS

Address	Type	Name
0-00000000		UETFORT02

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000000	R*8	AVD	2-00000008	R*8	BVD	2-00000010	R*8	CVD	2-00000018	R*8	DVD
2-00000020	R*8	EVD	2-00000038	R*8	FVD	2-00000040	R*8	GVD	2-00000048	I*4	NUVI
2-00000028	R*8	PIVD	2-00000030	R*8	XVD						

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
1-00000000	890'	1-000000BD	891'	1-000000EE	892'	1-0000011F	893'	1-00000150	894'	1-00000181	895'
1-000001B2	896'	1-000001E3	897'	1-00000214	898'	1-00000245	899'	1-00000276	7890'		

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
R*8	MTH\$DSIGN	R*8	MTH\$DSIN

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:UETFORT02/OBJ=OBS\$:UETFORT02 MSRC\$:UETFORT02
 /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
 /DEBUG=(NOSYMBOLS,TRACEBACK)
 /STANDARD=(NOSYNTAX,NOSOURCE FORM)
 /SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
 /F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

UE
 VO
 20
 6C
 72
 61
 4E
 69
 20
 2E
 61
 72
 20
 41
 66
 69
 61
 44
 20
 54
 64
 41
 66
 64
 3A

COMPILATION STATISTICS

Run Time: 1.93 seconds
Elapsed Time: 5.96 seconds
Page Faults: 109
Dynamic Memory: 168 pages

UETI

V04

4B

6F

2D

72

20

20

2F

74

4F

74

5F

73

25

20

20

20

63

64

75

0411 AH-BT13A-SE
VAX/VMS V4.0

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Grid of 100 terminal windows (10x10) containing various system logs and data. Visible text includes:

- LETFORT03 LIS
- LETDR1400 LIS
- LETFORT02 LIS
- LETNETS00 LIS
- LETLPK00 LIS
- LETNETS00 LIS