

## JES2 JOB LOG

----- JES2 JOB STATISTICS -----

21 MAY 20 JOB EXECUTION DATE

6 CARDS READ

207 SYSOUT PRINT RECORDS

O SYSOUT PUNCH RECORDS

0.01 MINUTES EXECUTION TIME

```
JOB 1414
      //E#ALG JOB CLASS=A, MSGCLASS=A, MSGLEVEL=(1,1),
      // NOTIFY=HERCO1.
                                                                            IKJEFF10
                                                GENERATED BY IKJEFF10
                    USER=HERCO1, PASSWORD=
      // EXEC ALGOFCG, PARM. ALGOL=LONG, PARM. GO=MAP
                                                                            00001001
      ***
                                                                           00002001
      *************************
                                                                            00003001
      ***
                IBM ALGOL F LEVEL 2.1
                                                                            00004001
      ***
                                                                            00005001
      ***
                360S-AL-531 ALGOL F COMPILER
                                                                            00006001
      ***
                     AND
                                                                            00007001
       ***
                360S-LM-532 ALGOL F LIBRARY
                                                                            00008001
      ***
                                                                            00009001
      ***
      ***
                COMPILE AND EXECUTE A PROGRAM
                                                                            00010001
                                                                            00011001
      ***
                                                                           00012001
      *************************
      ***
                                                                            00013001
      XXALGOL
                                                                            00014001
                EXEC PGM=ALGOL, REGION=1024K
      XXSYSPRINT DD SYSOUT=*
                                                                            00015001
      XXSYSPUNCH DD
                     DUMMY
                                                                            00016001
      XXSYSLIN
                DD DSN=&&OBJECT,UNIT=VIO,SPACE=(3200,(20,10)),
                                                                           00017001
                     DISP=(,PASS)
                                                                            00018001
      XXSYSUT1
                 DD UNIT=VIO.SPACE=(2048,(50,10))
                                                                            00019001
      XXSYSUT2
                 DD UNIT=VIO, SPACE=(2048, (50, 10))
                                                                            00020001
                 DD UNIT=VIO.SPACE=(2048,(40,10))
      XXSYSUT3
                                                                            00021001
      //SYSIN DD DSN=E.TEST.SOURCE(E#ALG),DISP=SHR
11
12
                                                                            00022001
      XXGO
                EXEC PGM=LOADER, PARM='MAP, LET, PRINT', COND=(5, LT, ALGOL)
      XXSYSLIN
                 DD DSN=&&OBJECT.DISP=(OLD.DELETE)
                                                                            00023001
13
      XXSYSLIB
                 DD DSN=SYS1.ALGLIB,DISP=SHR
                                                                            00024001
      XXSYSLOUT DD SYSOUT=*
14
                                                                            00025001
15
      XXSYSPRINT DD SYSOUT=*
                                                                            00026001
16
      XXALGLDD01 DD SYSOUT=*
                                                                            00027001
      XXSYSUT1 DD UNIT=VIO, SPACE=(1024, (20, 10))
17
                                                                            00028001
18
      //GO.SYSIN DD DSN=E.TEST.DATA(E),DISP=SHR
```

```
IEF236I ALLOC. FOR E#ALG ALGOL
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY ALLOCATED TO SYSPUNCH
IEF237I VIO ALLOCATED TO SYSLIN
IEF237I VIO ALLOCATED TO SYSUT1
IEF237I VIO ALLOCATED TO SYSUT2
IEF237I VIO ALLOCATED TO SYSUT3
IEF237I 242 ALLOCATED TO SYSIN
IEF142I E#ALG ALGOL - STEP WAS EXECUTED - COND CODE 0000
      JES2.J0B01414.S00101
IEF285I
                                          SYSOUT
                                        PASSED
      SYS20142.T185547.RA000.E#ALG.OBJECT
IEF285I
      SYS20142.T185547.RA000.E#ALG.R0000001 DELETED
SYS20142.T185547.RA000.E#ALG.R0000002 DELETED
SYS20142.T185547.RA000.E#ALG.R0000003 DELETED
E.TEST.SOURCE KEPT
IEF285I
IEF285I
IEF285I
IEF285I E.TEST.SOURCE
IEF285I VOL SER NOS= MV0001.
IEF373I STEP /ALGOL / START 20142.1855
IEF374I STEP /ALGOL / STOP 20142.1855 CPU OMIN 00.05SEC SRB
                                                    OMIN 00.00SEC VIRT 192K SYS 288K
    1. JOBSTEP OF JOB: E#ALG STEPNAME: ALGOL PROGRAM NAME: ALGOL EXECUTED ON 21.05.20 FROM 18.55.47 TO 18.55.47 *
ELAPSED TIME 00:00:00,12 CPU-IDENTIFIER: TK4- PAGE-IN: 0 *
          CPU TIME 00:00:00.05 VIRTUAL STORAGE USED: 192K
                                                                     PAGE-OUT:
   I/O OPERATION
    NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0
   CHARGE FOR STEP (W/O SYSOUT):
IEF236I ALLOC. FOR E#ALG GO
IEF237I VIO ALLOCATED TO SYSLIN
IEF237I 148 ALLOCATED TO SYSLIB IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO ALGLDD01
IEF237I VIO ALLOCATED TO SYSUT1
IEF237I 242 ALLOCATED TO SYSIN
IEF142I E#ALG GO - STEP WAS EXECUTED - COND CODE 0000
IEF285I
      SYS20142.T185547.RA000.E#ALG.OBJECT DELETED
      SYS1.ALGLIB
IEF285I
                                        KEPT
IEF285I
      VOL SER NOS= MVSRES.
       JES2.J0B01414.S00102 SYSOUT
JES2.J0B01414.S00103 SYSOUT
JES2.J0B01414.S00104 SYSOUT
SYS20142.T185547.RA000.E#ALG.R0000004 DELETED
E.TEST.DATA KEPT
IEF285I
      JES2.J0B01414.S00102
IEF285I
IEF285I
IEF285I
IEF285I
      E.TEST.DATA
      VOL SER NOS= MV0001.
IEF285I
IEF373I STEP /GO / START 20142.1855
IEF374I STEP /GO / STOP 20142.1855 CPU OMIN 00.71SEC SRB OMIN 00.01SEC VIRT 332K SYS 240K
**********************
   I/O OPERATION
    NUMBER OF RECORDS READ VIA DD * OR DD DATA: 0
 CHARGE FOR STEP (W/O SYSOUT): 1,20
IEF375I JOB /E#ALG / START 20142.1855
IEF376I JOB /E#ALG / STOP 20142.1855 CPU OMIN 00.76SEC SRB
                                                    OMIN 00.01SEC
```

```
'BEGIN'
          'COMMENT'
          SALE, A.H.J. (1968). THE CALCULATION OF E TO MANY SIGNIFICANT DIGITS
          THE COMPUTER JOURNAL. 11 (2): 229-230 - MODIFICATO!;
          'PROCEDURE'ECALCULATION(N);
          'VALUE'N;
         'INTEGER'N:
          'BEGIN'
             'INTEGER'M;
             'REAL'TEST;
             M:=4;
              TEST:=(N+1)*2.30258509;
       LOOP: M:=M+1;
             'IF'M*(LN(M)-1.0)+0.5*LN(6.2831852*M)<=TEST
             'THEN''GOTO'LOOP;
             'BEGIN'
                'INTEGER'I, J, CARRY, TEMP;
10
                'INTEGER''ARRAY'COÉF[2:M];
                'FOR'J:=2'STEP'1'UNTIL'M
11
                'DO'COEF[J]:=1;
11
                 SYSACT(1,6,100);
12
13
                 SYSACT(1,12,1);
14
                 SYSACT(1,2,47);
15
                 OUTSTRING(1, '('E = 2.')');
16
                 SYSACT(1,14,1);
17
                'FOR'I:=1'STEP'1'UNTIL'N
17
                'DO''BEGIN'
17
                        CARRY:=0;
18
                        'FOR'J:=M'STEP'-1'UNTIL'2
18
                        'DO''BEGIN'
                                TEMP:=COEF[J]*10+CARRY;
18
19
                                CARRY:=TEMP'/'J;
20
                                COEF[J]:=TEMP-CARRY*J
20
                            'END'OF DIGIT GENERATION:
21
                        OUTDIGIT(1,CARRY);
22
                    'END'HAVING CALCULATE N DIGITS
             'END'DELETING DECLARATIONS
22
23
23
24
          'END'OF ECALCULATION;
          'PROCEDURE'OUTDIGIT(DS.D);
         'VALUE'DS,D;
'INTEGER'DS,D;
25
26
         'BEGIN'
26
              OUTSYMBOL(DS,'('0123456789')',D+1)
26
          'END'OF OUTDIGIT:
27
27
          'COMMENT'BEGIN MAIN:
27
          'INTEGER'NC;
28
          ININTEGER(O,NC);
          ECALCULATION(NC)
      'END'OF MAIN
```

360S-AL-531 LEVEL 2.1

						IDENT	IFIER 1	[ABI	LE								PAGE	2
PBN	SC	PBN	NAME	TYPE	DM	DSP	NAME	T.	YPE	DM	DSP	NAME	ΤY	PE	DM	DSP		
		SURR			PR	LN				PR	LN				PR	LN		
001	00000	000	ECALCU	Р	01	070	NC	I			018	OUTDIG		Р	02	078		
002	00000	001	LOOP	L		074	М	Ι			020	N	Ι	٧		018		
			TEST	R		028												
003	00009	002	CARRY	I		020	COEF	Ι	Α	01	028	I	Ι			018		
			J	I		01C	TEMP	I			024							
004	00023	001	D	ΙV		020	DS	Ι	٧		018							

PBN BYTES

OBJECT MODULE SIZE 2460 BYTES
DATA STORAGE AREA SIZES
PBN BYTES PBN BYTES
001 48 002 80 PBN BYTES 003 136 PBN BYTES 004 64

VS LOADER

OPTIONS USED - PRINT, MAP, NOLET, CALL, RES, NOTERM, SIZE=307200, NAME=\*\*GO

NAME TY	PE ADDR	NAME TYPE	ADDR	NAME TYPE	ADDR	NAME TYPE	ADDR NA	ME TYPE	ADDR
PROGRAM IHILLO * IHIOSYMB* IHIPTTAB* IHIIORCL* IHIIOREV*	SD AC010 LR AD138 SD AD960 SD AF0B8 LR AF8A0 LR AFC28	IHIENTIF LR IHIIDECM* SD IHIOSTRG* SD IHIIORTN* SD IHIIORCP* LR IHIIORED* LR	AC9A0 AD290 ADA98 AF1C0 AFA56 AFCBC	IHIDSTAB LR IHIIDEAI* LR IHIFSARA* SD IHIIOROQ* LR IHIIORGP* LR IHIIORCI* LR	AC75C AD290 ADBE0 AF1C0 AF844 AFD68	IHISYSCT* SD IHIIDEII* LR IHIFSAIN* LR IHIIOROP* LR IHIIORCN* LR IHIIORER* LR	AC9BO IHILL AD2D4 IHIID AE9D4 IHIFS AF28C IHIIO AFB48 IHIIO AFDEC IHIER	OGM* SD EIR* LR ARB* SD RNX* LR REN* LR	AD138 AD318 AEA48 AF63C AFBAC AFED8
IHIERMSG*	SD B05C0	IHIERM01∗ LR	B0670						

TOTAL LENGTH 4F68 ENTRY ADDRESS AE9D4



E = 2.

718281828459045235360287471352662497757247093699959574966967627724076630353547594571382178525166427427466391932003059921817413596629043572900334295260595630738132328627943490763233829880753195251019011573834187930702154089149934884167509244761460668082264800168477411853742345442437107539077744992069517027618386062613313845830007520449338265602976067371132007093287091274437470472306969772093101416928368190255151086574637721112523897844250569536967707854499699679468644549059879316368892300987931277361782154249992295763514822082698951936680331825288693984964651058209392398294887933203625094431173012381970684161403970198376793206832823764648042953118023287825098194558153017567173613320698112509961818815930416903515988885193458072738667385894228792284998920868058257492796104841984443634632449684875602336248270419786232090021609902353043699418491463140934317381436405462531520961836908887070167683964243781405927145635490613031072085103837505101157477041718986106873969655212671546889570350354

