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50	*****A	START	JOB	13	PRIMFORH	Eratosthenes	Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	START	A*****
51	*****A	START	JOB	13	PRIMFORH	Eratosthenes	Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	START	A*****
52	*****A	START	JOB	13	PRIMFORH	Eratosthenes	Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	START	A*****
53	*****A	START	JOB	13	PRIMFORH	Eratosthenes	Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	START	A*****
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	21.17.20	JOB	13	\$HASP373 PRIMFORH STARTED - INIT 1 - CLASS A - SYS TK4-					
	21.17.20	JOB	13	IEF403I PRIMFORH - STARTED - TIME=21.17.20					
	21.17.20	JOB	13	IEFACTRT - Stepname Procstep Program Retcode					
1	21.17.20	JOB	13	PRIMFORH	PRIMES	FORT	IEKAA00	RC= 0000	1
2	21.17.21	JOB	13	PRIMFORH	PRIMES	GO	LOADER	RC= 0000	2
3	21.17.21	JOB	13	IEF404I PRIMFORH - ENDED - TIME=21.17.21					3
4	21.17.21	JOB	13	\$HASP395 PRIMFORH ENDED					4
5									5
6									6
7	----- JES2 JOB STATISTICS -----								7
8									8
9									9
10	26 NOV 21 JOB EXECUTION DATE								10
11									11
12									12
13	204 CARDS READ								13
14									14
15									15
16	339 SYSOUT PRINT RECORDS								16
17									17
18									18
19	0 SYSOUT PUNCH RECORDS								19
20									20
21									21
22	0.00 MINUTES EXECUTION TIME								22
23									23
24									24
25									25
26									26
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1412THE

1

1 //PRIMFORH JOB (FORTRAN),  
// 'Eratosthenes Sieve',  
// CLASS=A,  
// MSGCLASS=A,  
// REGION=9000K,TIME=1440,  
// MSGLEVEL=(1,1),

// USER=HERC01,PASSWORD= GENERATED BY GDL

\*\*\*\*\*

\*\*\*

\*\*\* Name: SYS2.JCLLIB(PRIMFORH)

\*\*\*

\*\*\* Desc: Sieve of Eratosthenes programmed in FORTRAN,

\*\*\* compiled using the IBM OS/360 FORTRAN H Level 21.8 compiler.

\*\*\* All prime numbers up to the value entered via

\*\*\* //GO.SYSIN DD are computed.

\*\*\*

\*\*\*\*\*

2 //PRIMES EXEC FORTHCLD,PARM.GO='SIZE=9000000'

3 XXFORTHCLD PROC SOUT='\*' 00000100

4 XXFORT EXEC PGM=IEKAA00,PARM=(SOURCE,MAP) 00000200

5 XXSYSPRINT DD SYSOUT=&SOUT 00000300

6 XXSYSPUNCH DD SYSOUT=B 00000400

7 XXSYSLIN DD DSN= &LOADSET,UNIT=SYSDA,DISP=(MOD,PASS), 00000500

XX SPACE=(400,(200,50),RLSE) 00000600

8 //FORT.SYSIN DD \*

9 XXGO EXEC PGM=LOADER,PARM=(MAP),COND=(4,LT,FORT) 00000700

10 XXSYSLIB DD DSN=SYS1.FORTLIB,DISP=SHR 00000800

11 XXSYSLOUT DD SYSOUT=&SOUT 00000900

12 XXSYSLIN DD DSN=\*.FORT.SYSLIN,DISP=(OLD,PASS) 00001000

13 XXFT05F001 DD DDNAME=SYSIN 00001100

14 //GO.FT06F001 DD SYSOUT=\*,DCB=(RECFM=FBA,LRECL=166,BLKSIZE=16600) 00001200

X/FT06F001 DD SYSOUT=&SOUT 00001300

15 XXFT07F001 DD SYSOUT=B

16 //GO.SYSIN DD \*

5 IEF653I SUBSTITUTION JCL - SYSOUT=\*

11 IEF653I SUBSTITUTION JCL - SYSOUT=\*

14 IEF653I SUBSTITUTION JCL - SYSOUT=\*

```
1 IEF236I ALLOC. FOR PRIMFORH FORT PRIMES
2 IEF237I JES2 ALLOCATED TO SYSPRINT
3 IEF237I JES2 ALLOCATED TO SYSPUNCH
4 IEF237I 180 ALLOCATED TO SYSLIN
5 IEF237I JES2 ALLOCATED TO SYSIN
6 IEF142I PRIMFORH FORT PRIMES - STEP WAS EXECUTED - COND CODE 0000
7 IEF285I JES2.JOB00013.S00103 SYSOUT
8 IEF285I JES2.JOB00013.S00104 SYSOUT
9 IEF285I SYS21330.T211720.RA000.PRIMFORH.LOADSET PASSED *-----39
10 IEF285I VOL SER NOS= WORK02.
11 IEF285I JES2.JOB00013.SI0101 SYSIN
12 IEF373I STEP /FORT / START 21330.2117
13 IEF374I STEP /FORT / STOP 21330.2117 CPU 0MIN 00.05SEC SRB 0MIN 00.01SEC VIRT 9064K SYS 232K
14
15 *****
16 * 1. Jobstep of job: PRIMFORH Stepname: FORT Program name: IEKAA00 Executed on 26.11.21 from 21.17.20 to 21.17.20 *
17 * elapsed time 00:00:00,12 CPU-Identifier: TK4- Page-in: 0 *
18 * CPU time 00:00:00,06 Virtual Storage used: 9064K Page-out: 0 *
19 * corr. CPU: 00:00:00,06 CPU time has been corrected by 1 / 1,0 multiplier *
20 * *
21 * I/O Operation *
22 * Number of records read via DD * or DD DATA: 180 *
23 * DMY.....0 DMY.....0 180.....39 DMY.....0 *
24 * *
25 * Charge for step (w/o SYSOUT): 0,10 *
26 *****
27 IEF236I ALLOC. FOR PRIMFORH GO PRIMES
28 IEF237I 148 ALLOCATED TO SYSLIB
29 IEF237I JES2 ALLOCATED TO SYSLOUT
30 IEF237I 180 ALLOCATED TO SYSLIN
31 IEF237I JES2 ALLOCATED TO FT05F001
32 IEF237I JES2 ALLOCATED TO FT06F001
33 IEF237I JES2 ALLOCATED TO FT07F001
34 IEF142I PRIMFORH GO PRIMES - STEP WAS EXECUTED - COND CODE 0000
35 IEF285I SYS1.FORTLIB KEPT *-----65
36 IEF285I VOL SER NOS= MVSRES.
37 IEF285I JES2.JOB00013.S00105 SYSOUT
38 IEF285I SYS21330.T211720.RA000.PRIMFORH.LOADSET PASSED *-----40
39 IEF285I VOL SER NOS= WORK02.
40 IEF285I JES2.JOB00013.SI0102 SYSIN
41 IEF285I JES2.JOB00013.S00106 SYSOUT
42 IEF285I JES2.JOB00013.S00107 SYSOUT
43 IEF373I STEP /GO / START 21330.2117
44 IEF374I STEP /GO / STOP 21330.2117 CPU 0MIN 00.04SEC SRB 0MIN 00.01SEC VIRT 8824K SYS 224K
45
46 *****
47 * 2. Jobstep of job: PRIMFORH Stepname: GO Program name: LOADER Executed on 26.11.21 from 21.17.20 to 21.17.21 *
48 * elapsed time 00:00:00,10 CPU-Identifier: TK4- Page-in: 0 *
49 * CPU time 00:00:00,05 Virtual Storage used: 8824K Page-out: 0 *
50 * corr. CPU: 00:00:00,05 CPU time has been corrected by 1 / 1,0 multiplier *
51 * *
52 * I/O Operation *
53 * Number of records read via DD * or DD DATA: 1 *
54 * 148.....65 DMY.....0 180.....40 DMY.....0 DMY.....0 DMY.....0 *
55 * *
56 * Charge for step (w/o SYSOUT): 0,08 *
57 *****
58 IEF237I 180 ALLOCATED TO SYS00001
59 IEF285I SYS21330.T211721.RA000.PRIMFORH.R0000001 KEPT *-----0
60 IEF285I VOL SER NOS= WORK02.
```

IEF285I SYS21330.T211720.RA000.PRIMFORH.LOADSET DELETED

IEF285I VOL SER NOS= WORK02.

IEF375I JOB /PRIMFORH/ START 21330.2117

IEF376I JOB /PRIMFORH/ STOP 21330.2117 CPU 0MIN 00.09SEC SRB 0MIN 00.02SEC

1		1
2		2
3		3
4		4
5		5
6		6
7		7
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9		9
10		10
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COMPILER OPTIONS - NAME= MAIN,OPT=00,LINECNT=50,SIZE=0000K,  
SOURCE,EBCDIC,NOLIST,NODECK,LOAD,MAP,NOEDIT,NOID,NOXREF

```
C /*-----*/
C /* Sieve of Eratosthenes. */
C /*-----*/
C /*-----*/
C /* Formats for output. */
C /*-----*/
ISN 0002 3 FORMAT ( ' ' )
ISN 0003 4 FORMAT ( 3X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7,
11X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7, 1X, I7, 1X,
1, I7, 1X, I7, 1X, I7 )
ISN 0004 5 FORMAT ( ' Sieve of Eratosthenes generated using OS/360 FORTRAN H L
level 21.8' )
ISN 0005 6 FORMAT ( ' Upper limit of test range = ', I12 )
ISN 0006 7 FORMAT ( ' Number of primes in range = ', I12 )
ISN 0007 8 FORMAT ( I7 )
ISN 0008 993 FORMAT ( ' DEBUG: marking as non prime: ', I4 )
ISN 0009 994 FORMAT ( ' DEBUG: starting p=', I4, ' j=', I4 )
C /*-----*/
C /* Define array of flags, one for each integer in the range */
C /* we will test. If the flag is on, the corresponding */
C /* number is prime. If it's off, the number is not prime. */
C /* We will initialize all the flags to on (assuming every */
C /* number is prime) and turn them off as we determine the */
C /* corresponding number is not prime. */
C /*-----*/
ISN 0010 LOGICAL*1 FLAGS(5000002)
C /*-----*/
C /* The PRIME array will hold all the prime numbers we have */
C /* identified, and CPRIME will contain the number of primes */
C /* we've found. */
C /*-----*/
ISN 0011 INTEGER*4 PRIME(350000)
ISN 0012 INTEGER*4 CPRIME
C /*-----*/
C /* J is a loop counter and work variable. */
C /*-----*/
ISN 0013 INTEGER*4 J
C /*-----*/
C /* K is the step amount for crossing out prime multiples */
C /*-----*/
ISN 0014 INTEGER*4 K
```

```
C
C /*-----*/
C /* P is the number that we've most recently determined */
C /* definitely to be prime. */
C /*-----*/
1 ISN 0015      INTEGER*4 P
2
3
4
5
6
7
8 ISN 0016      LOGICAL*1 DEBUG
9
10
11
12
13 ISN 0017     INTEGER*4 LIMIT
14
15
16
17
18
19
20
21 ISN 0018     INTEGER*4 REPEAT
22
23
24
25
26 ISN 0019     READ (5, 8) LIMIT
27             DEBUG = .TRUE.
28 ISN 0020     DEBUG = .FALSE.
29 ISN 0021     REPEAT = 1
30
31
32
33
34 ISN 0022     100  CONTINUE
35 ISN 0023     REPEAT = REPEAT - 1
36 ISN 0024     IF (REPEAT .LT. 0) GO TO 999
37
38
39
40
41
42
43 ISN 0026     DO 200 J = 3, LIMIT, 2
44 ISN 0027     FLAGS(J) = .TRUE.
45
46
47
48
49
50
51
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```

ISN 0028

200 CONTINUE

C

C /\*-----\*/

C /\* The first prime number is 3, the 2 is handled manually \*/

C /\*-----\*/

ISN 0029

P = 3

C

C /\*-----\*/

C /\* Start of the main loop. P is the prime number we're \*/

C /\* currently working on. If P\*P is greater than the limit \*/

C /\* value, we're done (all the numbers between P and the limit \*/

C /\* inclusive have already been marked appropriately). Any \*/

C /\* non-prime less than P\*P has also already been marked \*/

C /\* appropriately, so we will start this pass marking with \*/

C /\* P\*P (which we will call J). \*/

C /\*-----\*/

ISN 0030

300 CONTINUE

ISN 0031

J = P \* P

ISN 0032

K = 2 \* P

ISN 0033

IF (J .GE. LIMIT) GO TO 700

ISN 0035

IF (.NOT. DEBUG) GO TO 400

ISN 0037

WRITE (6, 994) P, J

C

C /\*-----\*/

C /\* By definition, all multiples of prime number P are not \*/

C /\* prime. Turn off the flags for the multiples of P to \*/

C /\* mark them as non-prime. Note: Even numbers are skipped. \*/

C /\*-----\*/

ISN 0038

400 CONTINUE

ISN 0039

IF (J .GT. LIMIT) GO TO 500

ISN 0041

IF (.NOT. DEBUG) GO TO 420

ISN 0043

WRITE (6, 993) J

ISN 0044

420 FLAGS(J) = .FALSE.

ISN 0045

J = J + K

ISN 0046

GO TO 400

C

C /\*-----\*/

C /\* Done marking all multiples of J as not prime. Find the \*/

C /\* next prime number after J, set it to P and loop back to \*/

C /\* process it. Note: Even numbers are skipped. \*/

C /\*-----\*/

ISN 0047

500 CONTINUE

ISN 0048

P = P + 2

ISN 0049

IF (FLAGS(P)) GO TO 600

ISN 0051

GO TO 500

C

C /\*-----\*/

C /\* Bottom of the main loop. \*/



```
ISN 0052      C /*-----*/
ISN 0053      600  CONTINUE
              GO TO 300
              C
1  C /*-----*/
2  C /*  Bottom of the benchmark loop.  */
3  C /*-----*/
4  ISN 0054      700  CONTINUE
5  ISN 0055      GO TO 100
6  ISN 0056      999  CONTINUE
7  C
8  C /*-----*/
9  C /*  Set the prime numbers we have found in the PRIME array.  */
10 C /*-----*/
11 ISN 0057      CPRIME = 1
12 ISN 0058      PRIME(CPRIME) = 2
13 ISN 0059      DO 800 J = 3, LIMIT, 2
14 ISN 0060      IF (.NOT. FLAGS(J)) GO TO 800
15 ISN 0062      CPRIME = CPRIME + 1
16 ISN 0063      PRIME(CPRIME) = J
17 ISN 0064      800  CONTINUE
18 C
19 C /*-----*/
20 C /*  Display the results.  */
21 C /*-----*/
22 ISN 0065      WRITE (6, 3)
23 ISN 0066      WRITE (6, 5)
24 ISN 0067      WRITE (6, 6) LIMIT
25 ISN 0068      WRITE (6, 7) CPRIME
26 ISN 0069      WRITE (6, 3)
27 ISN 0070      WRITE (6, 4) (PRIME(J), J = 1, CPRIME)
28 ISN 0071      WRITE (6, 3)
29 C
30 C /*-----*/
31 C /*  End of program.  */
32 C /*-----*/
33 ISN 0072      STOP
34 ISN 0073      END
```

TABLE 1															
NAME TAG TYPE ADD.				NAME TAG TYPE ADD.				NAME TAG TYPE ADD.				NAME TAG TYPE ADD.			
J SF	I*4	0001B4		K SF	I*4	0001B8		P SF	I*4	0001BC		DEBUG S	L*1	0001B0	
FLAGS S	L*1	0001CC		LIMIT SF	I*4	0001C0		PRIME SF	I*4	4C4D14		CPRIME SF	I*4	0001C4	
IBCOM#	F	XF	R*4	000000	REPEAT	SF	I*4	0001C8							
1															1
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3															3
4															4
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1412THE

10061AA6C20061AA9230061AAB040061AB0C

42061AB4850061AB6660061AB8C70061AB92

99961AB9880061ABEC

1		1
2	*OPTIONS IN EFFECT* NAME= MAIN,OPT=00,LINECNT=50,SIZE=0000K,	2
3		3
4	*OPTIONS IN EFFECT* SOURCE,EBCDIC,NOLIST,NODECK,LOAD,MAP,NOEDIT,NOID,NOXREF	4
5		5
6	*STATISTICS* SOURCE STATEMENTS = 72 ,PROGRAM SIZE = 6401286	6
7		7
8	*STATISTICS* NO DIAGNOSTICS GENERATED	8
9		9
10	***** END OF COMPILATION ***** 8917K BYTES OF CORE NOT USED	10
11		11
12		12
13		13
14		14
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OPTIONS USED - PRINT,NOMAP,NOLET,CALL,RES,NOTERM,SIZE=9000000,NAME=\*\*GO

TOTAL LENGTH 61FFD0  
ENTRY ADDRESS ACBD0

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
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Sieve of Eratosthenes generated using OS/360 FORTRAN H Level 21.8

Upper limit of test range = 2000  
Number of primes in range = 303

1	2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	1
2	67	71	73	79	83	89	97	101	103	107	109	113	127	131	137	139	2
3	157	163	167	173	179	181	191	193	197	199	211	223	227	229	233	239	3
4	257	263	269	271	277	281	283	293	307	311	313	317	331	337	347	349	4
5	367	373	379	383	389	397	401	409	419	421	431	433	439	443	449	457	5
6	467	479	487	491	499	503	509	521	523	541	547	557	563	569	571	577	6
7	599	601	607	613	617	619	631	641	643	647	653	659	661	673	677	683	7
8	709	719	727	733	739	743	751	757	761	769	773	787	797	809	811	821	8
9	829	839	853	857	859	863	877	881	883	887	907	911	919	929	937	941	9
10	967	971	977	983	991	997	1009	1013	1019	1021	1031	1033	1039	1049	1051	1061	10
11	1087	1091	1093	1097	1103	1109	1117	1123	1129	1151	1153	1163	1171	1181	1187	1193	11
12	1217	1223	1229	1231	1237	1249	1259	1277	1279	1283	1289	1291	1297	1301	1303	1307	12
13	1327	1361	1367	1373	1381	1399	1409	1423	1427	1429	1433	1439	1447	1451	1453	1459	13
14	1483	1487	1489	1493	1499	1511	1523	1531	1543	1549	1553	1559	1567	1571	1579	1583	14
15	1607	1609	1613	1619	1621	1627	1637	1657	1663	1667	1669	1693	1697	1699	1709	1721	15
16	1741	1747	1753	1759	1777	1783	1787	1789	1801	1811	1823	1831	1847	1861	1867	1871	16
17	1879	1889	1901	1907	1913	1931	1933	1949	1951	1973	1979	1987	1993	1997	1999		17

19		PPPPPPPPPP	RRRRRRRRRR	IIIIIIIIII	MM	MM	FFFFFFFF	0000000000	RRRRRRRRRR	HH	HH						
20		PPPPPPPPPP	RRRRRRRRRR	IIIIIIIIII	MMM	MMM	FFFFFFFF	0000000000	RRRRRRRRRR	HH	HH						
21		PP	PP	RR	RR	II	MMMM	MMMM	FF	00	00	RR	RR	HH	HH		
22		PP	PP	RR	RR	II	MM	MM	MM	FF	00	00	RR	RR	HH	HH	
23		PP	PP	RR	RR	II	MM	MMMM	MM	FF	00	00	RR	RR	HH	HH	
24		PP	PP	RR	RR	II	MM	MMMM	MM	FF	00	00	RR	RR	HH	HH	
25		PPPPPPPPPP	RRRRRRRRRR	II	MM	MM	MM	FFFFFFFF	00	00	RRRRRRRRRR	HHHHHHHHHH					
26		PPPPPPPPPP	RRRRRRRRRR	II	MM	MM	MM	FFFFFFFF	00	00	RRRRRRRRRR	HHHHHHHHHH					
27		PP	RR	RR	II	MM	MM	FF	00	00	RR	RR	HH	HH			
28		PP	RR	RR	II	MM	MM	FF	00	00	RR	RR	HH	HH			
29		PP	RR	RR	II	MM	MM	FF	00	00	RR	RR	HH	HH			
30		PP	RR	RR	IIIIIIIIII	MM	MM	FF	0000000000	RR	RR	RR	HH	HH			
31		PP	RR	RR	IIIIIIIIII	MM	MM	FF	0000000000	RR	RR	RR	HH	HH			

32																	
33																	
34																	
35		JJJJJJJJJ	11	3333333333									AAAAAAAAA				
36		JJJJJJJJJ	111	333333333333									AAAAAAAAA				
37		JJ	1111	33	33								AA	AA			
38		JJ	11		33								AA	AA			
39		JJ	11		33								AA	AA			
40		JJ	11	3333									AAAAAAAAA				
41		JJ	11	3333									AAAAAAAAA				
42		JJ	11	33									AA	AA			
43		JJ	JJ	11	33								AA	AA			
44		JJ	JJ	11	33	33							AA	AA			
45		JJJJJJJ	1111111111	333333333333									AA	AA			
46		JJJJJ	1111111111	3333333333									AA	AA			

49	****A	END	JOB	13	PRIMFORH	Eratosthenes Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	END	A****
50	****A	END	JOB	13	PRIMFORH	Eratosthenes Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	END	A****
51	****A	END	JOB	13	PRIMFORH	Eratosthenes Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	END	A****
52	****A	END	JOB	13	PRIMFORH	Eratosthenes Sieve	ROOM	9.17.21	PM	26	NOV	21	PRINTER1	SYS	TK4-	JOB	13	END	A****