

1											1			
2	AAAAAAAAAAAA SSSSSSSSSS MM MM HH HH CCCCCCCCCC										2			
3	AA AA SS SS MMMM MMMM HH HH CC CC										3			
4	AA AA SS MM MM MM MM HH HH CC										4			
5	AA AA SSS MM MMMM MM HH HH CC										5			
6	AAAAAAAAAAAA SSSSSSSS MM MM MM HHHHHHHHHHHH CC										6			
7	AAAAAAAAAAAA SSSSSSSS MM MM HHHHHHHHHHHH CC										7			
8	AA AA SSS MM MM HH HH CC										8			
9	AA AA SS MM MM HH HH CC										9			
10	AA AA SS SS MM MM HH HH CC CC										10			
11	AA AA SSSSSSSSSS MM MM HH HH CCCCCCCCCC										11			
12	AA AA SSSSSSSS MM MM HH HH CCCCCCCCC										12			
13											13			
14											14			
15											15			
16	JJJJJJJJJJ	00000000000	BBBBBBBBBBB	00000000	444	55555555555	222222222	55555555555		16				
17	JJJJJJJJJJ	000000000000	BBBBBBBBBBB	0000000000	4444	55555555555	22222222222	55555555555		17				
18	JJ	00	00	BB	BB	00	0000	44	44	55	22	55		18
19	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	19
20	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	20
21	JJ	00	00	BBBBBBBBBB	00	00	00	44444444444	55555555		22	55555555	21	
22	JJ	00	00	BBBBBBBBBB	00	00	00	444444444444	555555555		22	555555555	22	
23	JJ	00	00	BB	BB	00	00	00	44		55	22	55	23
24	JJ	JJ	00	00	BB	BB	0000	00	44		55	22	55	24
25	JJ	JJ	00	00	BB	BB	000	00	44		55	22	55	25
26	JJJJJJJJ	000000000000	BBBBBBBBBBB	0000000000	44	55555555555	22222222222	55555555555					26	
27	JJJJJJ	000000000000	BBBBBBBBBBB	00000000	44	55555555555	22222222222	55555555555					27	
28											28			
29											29			
30											30			
31	**START*****START*****START*****START*****START*****START*****START***										31			
32	*										32			
33	* JOBID: JOB04525										33			
34	* JOB NAME: ASMHC										34			
35	* USER ID: IBMUSER										35			
36	* SYSOUT CLASS: J										36			
37	* OUTPUT GROUP: 1.1.1										37			
38	* TITLE:										38			
39	*										39			
40	* DESTINATION: LOCAL										40			
41	* NAME: J. Winkelmann										41			
42	* ROOM: JW										42			
43	* BUILDING:										43			
44	* DEPARTMENT:										44			
45	* ADDRESS:										45			
46	*										46			
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48	*										48			
49	*										49			
50	* PRINT TIME: 09:40:24										50			
51	* PRINT DATE: 15 OCT 2024										51			
52	* PRINTER NAME: PRT2										52			
53	* SYSTEM: SOW1										53			
54	*										54			
55	**START*****START*****START*****START*****START*****START*****START***										55			
56											56			
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58											58			
59											59			
60											60			

1											1			
2	AAAAAAAAAAAA SSSSSSSSSS MM MM HH HH CCCCCCCCCC										2			
3	AA AA SS SS MMMM MMMM HH HH CC CC										3			
4	AA AA SS MM MM MM MM HH HH CC										4			
5	AA AA SSS MM MMMM MM HH HH CC										5			
6	AAAAAAAAAAAA SSSSSSSS MM MM MM HHHHHHHHHHHH CC										6			
7	AAAAAAAAAAAA SSSSSSSS MM MM HHHHHHHHHHHH CC										7			
8	AA AA SSS MM MM HH HH CC										8			
9	AA AA SS MM MM HH HH CC										9			
10	AA AA SS SS MM MM HH HH CC CC										10			
11	AA AA SSSSSSSSSS MM MM HH HH CCCCCCCCCC										11			
12	AA AA SSSSSSSS MM MM HH HH CCCCCCCCC										12			
13											13			
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15											15			
16	JJJJJJJJJJ	00000000000	BBBBBBBBBBB	00000000	444	55555555555	222222222	55555555555		16				
17	JJJJJJJJJJ	000000000000	BBBBBBBBBBB	0000000000	4444	55555555555	22222222222	55555555555		17				
18	JJ	00	00	BB	BB	00	0000	44	44	55	22	55		18
19	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	19
20	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	20
21	JJ	00	00	BBBBBBBBBB	00	00	00	44444444444	55555555		22	55555555	21	
22	JJ	00	00	BBBBBBBBBB	00	00	00	444444444444	555555555		22	555555555	22	
23	JJ	00	00	BB	BB	00	00	00	44		55	22	55	23
24	JJ	JJ	00	00	BB	BB	0000	00	44		55	22	55	24
25	JJ	JJ	00	00	BB	BB	000	00	44		55	22	55	25
26	JJJJJJJJ	000000000000	BBBBBBBBBBB	0000000000	44	55555555555	22222222222	55555555555					26	
27	JJJJJJ	000000000000	BBBBBBBBBBB	00000000	44	55555555555	22222222222	55555555555					27	
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31	**START*****START*****START*****START*****START*****START*****START***										31			
32	*										32			
33	* JOBID: JOB04525										33			
34	* JOB NAME: ASMHC										34			
35	* USER ID: IBMUSER										35			
36	* SYSOUT CLASS: J										36			
37	* OUTPUT GROUP: 1.1.1										37			
38	* TITLE:										38			
39	*										39			
40	* DESTINATION: LOCAL										40			
41	* NAME: J. Winkelmann										41			
42	* ROOM: JW										42			
43	* BUILDING:										43			
44	* DEPARTMENT:										44			
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50	* PRINT TIME: 09:40:24										50			
51	* PRINT DATE: 15 OCT 2024										51			
52	* PRINTER NAME: PRT2										52			
53	* SYSTEM: SOW1										53			
54	*										54			
55	**START*****START*****START*****START*****START*****START*****START***										55			
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J E S 2   J O B   L O G   --   S Y S T E M   S O W 1   --   N O D E   S O W 1																
09.40.24	JOB04525	---- TUESDAY, 15 OCT 2024 ----														
09.40.24	JOB04525	IRR010I  USERID  IBMUSER  IS ASSIGNED TO THIS JOB.														
09.40.24	JOB04525	ICH70001I  IBMUSER  LAST ACCESS AT 09:16:50 ON TUESDAY, OCTOBER 15, 2024														
09.40.24	JOB04525	\$HASP373  ASMHC      STARTED - INIT 1      - CLASS A      - SYS SOW1														
09.40.24	JOB04525	IEF403I  ASMHC -  STARTED -  TIME=09.40.24														
09.40.24	JOB04525	-----TIMINGS (MINS.)-----										-----PAGING COUNTS-----				
09.40.24	JOB04525	-STEPNAME	PROCSTEP	RC	EXCP	CONN	TCB	SRB	CLOCK	SERV	WORKLOAD	PAGE	SWAP	VIO	SWAPS	
09.40.24	JOB04525	-C		00	62	0	.00	.00	.0	21	BATCH	0	0	0	0	
09.40.24	JOB04525	IEF404I  ASMHC -  ENDED -  TIME=09.40.24														
09.40.24	JOB04525	-ASMHC	ENDED.	NAME-J. Winkelmann			TOTAL TCB CPU TIME=			.00			TOTAL ELAPSED TIME=			.0
09.40.24	JOB04525	\$HASP395  ASMHC      ENDED -  RC=0000														
----- JES2 JOB STATISTICS -----																
15 OCT 2024 JOB EXECUTION DATE																
21 CARDS READ																
379 SYSOUT PRINT RECORDS																
0 SYSOUT PUNCH RECORDS																
33 SYSOUT SPOOL KBYTES																
0.00 MINUTES EXECUTION TIME																

1	1	//ASMHC	JOB (PB), 'J. Winkelmann',	JOB04525	1
2		//	CLASS=A,MSGCLASS=J,	00020000	2
3		//	REGION=8M,	00030000	3
4		//	MSGLEVEL=(1,1),	00040000	4
5		//	NOTIFY=IBMUSER	00050007	5
6	2	/*JOBPARM	ROOM=JW	00051000	6
7		//*****		00060000	7
8		//*		00070000	8
9		//*	Name: JUERGEN.JOB.CNTL(ASMHC)	00080001	9
10		//*		00090000	10
11		//*	Desc: Assemble	00100001	11
12		//*		00100100	12
13		//*****		00120000	13
14		//*		00130000	14
15	3	//C	EXEC PGM=IEV90,PARM=OBJECT	00140002	15
16	4	//SYSIN	DD DSN=IBMUSER.ASSEMBLE.SOURCE(PRNOTEST),DISP=SHR	00141007	16
17	5	//SYSLIB	DD DSN=MVS38J.SYS2.MACLIB,DISP=SHR	00150007	17
18	6	//SYSUT1	DD UNIT=SYSDA,SPACE=(CYL,(20,5)),DSN=&SYSUT1	00170002	18
19	7	//SYSPUNCH	DD SYSOUT=*	00180002	19
20	8	//SYSPRINT	DD SYSOUT=*	00190002	20
21	9	//SYSLIN	DD DSN=IBMUSER.ASSEMBLE.OBJ(PRNOTEST),DISP=SHR	00200007	21
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```
1 ICH70001I IBMUSER  LAST ACCESS AT 09:16:50 ON TUESDAY, OCTOBER 15, 2024
2 IEFA111I ASMHC IS USING THE FOLLOWING JOB RELATED SETTINGS:
3     SWA=ABOVE,TIOT SIZE=32K,DSENQSHR=DISALLOW,GDGBIAS=JOB
4 IEF236I ALLOC. FOR ASMHC C
5 IEF237I 0A82 ALLOCATED TO SYSIN
6 IEF237I 0AA2 ALLOCATED TO SYSLIB
7 IGD100I VIO ALLOCATED TO DDNAME SYSUT1  DATACLAS (      )
8 IEF237I JES2 ALLOCATED TO SYSPUNCH
9 IEF237I JES2 ALLOCATED TO SYSPRINT
10 IEF237I 0A82 ALLOCATED TO SYSLIN
11 IEF142I ASMHC C - STEP WAS EXECUTED - COND CODE 0000
12 IEF285I  IBMUSER.ASSEMBLE.SOURCE          KEPT
13 IEF285I  VOL SER NOS= A3SYS1.
14 IEF285I  MVS38J.SYS2.MACLIB              KEPT
15 IEF285I  VOL SER NOS= B5CFG1.
16 IEF285I  SYS24289.T094024.RA000.ASMHC.SYSUT1.H01  DELETED
17 IEF285I  IBMUSER.ASMHC.JOB04525.D0000101.?      SYSOUT
18 IEF285I  IBMUSER.ASMHC.JOB04525.D0000102.?      SYSOUT
19 IEF285I  IBMUSER.ASSEMBLE.OBJ              KEPT
20 IEF285I  VOL SER NOS= A3SYS1.
21 IEF373I STEP/C          /START 2024289.0940
22 IEF032I STEP/C          /STOP  2024289.0940
23 CPU:      0 HR   00 MIN  00.10 SEC    SRB:      0 HR   00 MIN  00.01 SEC
24 VIRT:    240K  SYS:    264K  EXT:    32768K  SYS:      9820K
25 ATB- REAL:                252K  SLOTS:                0K
26 VIRT- ALLOC:      17M SHRD:      0M
27 IEF375I JOB/ASMHC      /START 2024289.0940
28 IEF033I JOB/ASMHC      /STOP  2024289.0940
29 CPU:      0 HR   00 MIN  00.10 SEC    SRB:      0 HR   00 MIN  00.01 SEC
30
```

HLASM R6.0 2024/10/15 09.40

No Overriding ASMAOPT Parameters  
Overriding Parameters- OBJECT  
No Process Statements

Options for this Assembly

NOADATA  
ALIGN  
NOASA  
ASCII(00819)  
BATCH  
CA(LOCAL)  
CE(LOCAL)  
CODEPAGE(01148)  
NOCOMPAT  
CU(LOCAL)  
NODATAMAP  
NODBCS  
NODECK  
DXREF  
EBCDIC(00037)  
ESD  
NOEXIT  
FAIL(NOMSG,NOMNOTE,MAXERRS(500))  
FLAG(0,ALIGN,CONT,EXLITW,NOIMPLEN,NOLONGER,NOPAGE0,PUSH,RECORD,RENT,NOSIGNED,NOSUBSTR,NOTRUNC,USING0)  
NOFOLD  
NOGOFF  
ILMA  
NOINFO  
LANGUAGE(EN)  
NOLIBMAC  
LINECOUNT(60)  
LIST(121)  
MACHINE(,NOLIST)  
MXREF(SOURCE)  
OBJECT  
OPTABLE(UNI,NOLIST)  
NOPCONTROL  
NOPESTOP  
NOPROFILE  
NORA2  
NORENT  
RLD  
RXREF  
SECTALGN(8)  
SIZE(MAX)  
NOSUPRWARN  
SYSPARM()  
NOTERM  
NOTEST  
THREAD  
NOTRANSLATE  
TYPECHECK(MAGNITUDE,REGISTER,SIGNED)

3 PARM/OPTION





1412THE

1	High Level Assembler Option Summary			(PTF UI93396)	Page	2	1
2							2
3							3
4							4
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1412THE

1	External Symbol Dictionary										1
2											2
3											3
4	Symbol	Type	Id	Address	Length	Owner Id	Flags	Alias-of		HLASM R6.0 2024/10/15 09.40	4
5											5
6	PRNOTEST	SD	00000001	00000000	00000800		00				6
7											7
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Standalone Test PRNO Instruction  
Active Usings: None

Page 4

Loc Object Code Addr1 Addr2 Stmt Source Statement HLASM R6.0 2024/10/15 09.40

2 \*  
3 \* Function -  
4 \*  
5 \* This module tests the PRNO instruction in a  
6 \* standalone environment.  
7 \*  
8 \* Operation -  
9 \*  
10 \* PRNOTEST exercises PRNO QUERY, DRNG, and TRNG functions  
11 \* and does plausibility checks on the results.  
12 \*  
13 \* - If all tests pass, PRNOTEST enters an enabled wait state.  
14 \*  
15 \* - If a test fails, the test sequence is aborted and a  
16 \* disabled wait state DEAD is entered.  
17 \*

000000 00000 00800 18 PRNOTEST CSECT  
R:0 00000 19 USING \*,0  
000000 00000 001A0 20 ORG PRNOTEST+X'1A0'  
0001A0 0000000180000000 21 DC X'000000018000000000000000000000200' # z/Arch restart PSW  
0001B0 001B0 001D0 22 ORG PRNOTEST+X'1D0'  
0001D0 0002000180000000 23 DC X'000200018000000000000000000000DEAD' # z/Arch pgm new PSW  
0001E0 001E0 00200 24 ORG PRNOTEST+X'200'

25 \*\*\*  
26 \*\*\* QUERY  
27 \*\*\*  
000200 C001 0000 0000 28 LGFI R0,0 R0->function code 0  
000206 D2EF 0480 0600 00480 00600 29 MVC PB(240),PBNUL clear parameter block  
00020C 4110 0480 00480 30 LA R1,PB R1->parameter block  
000210 B93C 0024 31 PRNO R2,R4 perform random number operation  
000214 D50F 06F0 0480 006F0 00480 32 CLC ERQUERY(16),PB compare with expected result  
00021A 4780 0220 00220 33 BE ++6 result OK  
00021E 0000 34 DC H'0' disabled wait DEAD if result invalid  
35 \*\*\*

36 \*\*\* DRNG: FIPS known answer test  
37 \*\*\*  
000220 C001 0000 0083 38 LGFI R0,131 R0->function code 3 with modifier: seed  
000226 D2EF 0480 0600 00480 00600 39 MVC PB(240),PBNUL clear parameter block  
00022C 4110 0480 00480 40 LA R1,PB R1->parameter block  
000230 4120 0800 00800 41 LA R2,F0 R2->first operand address  
000234 C031 0000 0000 42 LGFI R3,0 R3->first operand length  
00023A 4140 0570 00570 43 LA R4,S0 R2->second operand address  
00023E C051 0000 0040 44 LGFI R5,64 R3->second operand length  
000244 D23F 0570 0708 00570 00708 45 MVC S0(64),ENTROPY provide predefined entropy  
00024A B93C 0024 46 PRNO R2,R4 perform random number seed operation  
00024E C001 0000 0003 47 LGFI R0,3 R0->function code 3: generate  
000254 4110 0480 00480 48 LA R1,PB R1->parameter block  
000258 4120 0800 00800 49 LA R2,F0 R2->first operand address  
00025C C031 0000 0040 50 LGFI R3,64 R3->first operand length  
000262 4140 0570 00570 51 LA R4,S0 R2->second operand address  
000266 C051 0000 0000 52 LGFI R5,0 R3->second operand length  
00026C B93C 0024 53 PRNO R2,R4 perform random number generate operation  
000270 D53F 0748 0800 00748 00800 54 CLC ERFIPS(64),F0 compare with expected result  
000276 4780 027C 0027C 55 BE ++6 result OK  
00027A 0000 56 DC H'0' disabled wait DEAD if result invalid

Loc Object Code Addr1 Addr2 Stmt Source Statement HLASM R6.0 2024/10/15 09.40

57 \*\*\*

58 \*\*\* DRNG: Reseed and generate

59 \*\*\*

00027C C001 0000 0083 60 LGFI R0,131 R0->function code 3 with modifier: reseed

000282 4110 0480 00480 61 LA R1,PB R1->parameter block

000286 4120 0800 00800 62 LA R2,F0 R2->first operand address

00028A C031 0000 0000 63 LGFI R3,0 R3->first operand length

000290 4140 0570 00570 64 LA R4,S0 R2->second operand address

000294 C051 0000 0040 65 LGFI R5,64 R3->second operand length

00029A D23F 0570 0491 00570 00491 66 MVC S0(64),PB+17 steal seed material (ignored by Hercules)

0002A0 B93C 0024 67 PRNO R2,R4 perform random number reseed operation

0002A4 C001 0000 0003 68 LGFI R0,3 R0->function code 3: generate

0002AA 4110 0480 00480 69 LA R1,PB R1->parameter block

0002AE 4120 0800 00800 70 LA R2,F0 R2->first operand address

0002B2 C031 0001 0000 71 LGFI R3,65536 R3->first operand length

0002B8 4140 0570 00570 72 LA R4,S0 R2->second operand address

0002BC C051 0000 0000 73 LGFI R5,0 R3->second operand length

0002C2 B93C 0024 74 PRNO R2,R4 perform random number generate operation

0002C6 D53F 0800 0600 00800 00600 75 CLC F0(64),PBNUL first 64 bytes zero ..

0002CC 4770 02D2 002D2 76 BNE ++6 .. is not plausible

0002D0 0000 77 DC H'0' disabled wait DEAD if first 64 bytes zero

0002D2 C031 0001 07C1 78 LGFI R3,F0+65536-63 last 64 bytes ..

0002D8 D53F 3000 0600 00000 00600 79 CLC 0(64,R3),PBNUL .. zero ..

0002DE 4770 02E4 002E4 80 BNE ++6 .. is not plausible

0002E2 0000 81 DC H'0' disabled wait DEAD if last 64 bytes zero

82 \*\*\*

83 \*\*\* TRNG Query

84 \*\*\*

0002E4 C001 0000 0070 85 LGFI R0,112 R0->function code 112

0002EA D2EF 0480 0600 00480 00600 86 MVC PB(240),PBNUL clear parameter block

0002F0 4110 0480 00480 87 LA R1,PB R1->parameter block

0002F4 B93C 0024 88 PRNO R2,R4 perform random number operation

0002F8 D507 0700 0480 00700 00480 89 CLC TRQUERY(8),PB compare with expected result

0002FE 4780 0304 00304 90 BE ++6 result OK

000302 0000 91 DC H'0' disabled wait DEAD if result invalid

92 \*\*\*

93 \*\*\* TRNG

94 \*\*\*

000304 C001 0000 0072 95 LGFI R0,114 R0->function code 114: TRNG

00030A 4120 0800 00800 96 LA R2,F0 R2->first operand address

00030E C031 0000 0040 97 LGFI R3,64 R3->first operand length

000314 4140 0570 00570 98 LA R4,S0 R2->second operand address

000318 C051 0000 0040 99 LGFI R5,64 R3->second operand length

00031E B93C 0024 100 PRNO R2,R4 perform random number generate operation

000322 D53F 0800 0600 00800 00600 101 CLC F0(64),PBNUL first operand zero ..

000328 4770 032E 0032E 102 BNE ++6 .. is not plausible

00032C 0000 103 DC H'0' disabled wait DEAD if first operand zero

00032E D53F 0570 0600 00570 00600 104 CLC S0(64),PBNUL seconf operand zero ..

000334 4770 033A 0033A 105 BNE ++6 .. is not plausible

000338 0000 106 DC H'0' disabled wait DEAD if second operand zero

00033A B2B2 0400 00400 107 LPSWE WAITPSW load enabled wait PSW

00033E 0033E 00400 108 ORG PRNOTEST+X'400'

000400 0702000180000000 109 WAITPSW DC X'07020001800000000000000000000000' enabled wait PSW

000410 00410 00480 110 ORG PRNOTEST+X'480'

000480 111 PB DS XL240 current parameter block

Loc Object Code Addr1 Addr2 Stmt Source Statement HLASM R6.0 2024/10/15 09.40

000570			112	S0	DS	XL64	second operand
0005B0		005B0 00600	113		ORG	PRNOTEST+X'600'	
000600	0000000000000000		114	PBNUL	DC	240X'00'	empty parameter block
0006F0	9000000000000000		115	ERQUE	DC	X'90000000000000000000000000000000A000'	expected query reslt
000700	000000C000000020		116	TRQUE	DC	X'000000C000000020'	expected Hercules TRNG query result
000708	3295117F02371270		117	ENTROP	DC	X'3295117F02371270'	predefined entropy for
000710	105A3783CFE0BF5A		118		DC	X'105A3783CFE0BF5A'	FIPS known answer test
000718	C1408E6CEAC5AEEB		119		DC	X'C1408E6CEAC5AEEB'	
000720	D6D814BC827DC04D		120		DC	X'D6D814BC827DC04D'	
000728	21A1E480E3D5F2E3		121		DC	X'21A1E480E3D5F2E3'	
000730	78319ADE9BDDDA4C		122		DC	X'78319ADE9BDDDA4C'	
000738	2E93B74E348D5EE3		123		DC	X'2E93B74E348D5EE3'	
000740	2ED46A1AE62566E0		124		DC	X'2ED46A1AE62566E0'	
000748	F1DFE8330811ECD1		125	ERFIPS	DC	X'F1DFE8330811ECD1'	expected generate result for
000750	0AEB68728FAC57B0		126		DC	X'0AEB68728FAC57B0'	FIPS known answer test
000758	5DC8B4116DFCC066		127		DC	X'5DC8B4116DFCC066'	
000760	C4FBB654B317FB0E		128		DC	X'C4FBB654B317FB0E'	
000768	011265748F7929B0		129		DC	X'011265748F7929B0'	
000770	180366625DE0665B		130		DC	X'180366625DE0665B'	
000778	116C878B0F05BAD8		131		DC	X'116C878B0F05BAD8'	
000780	319416258824DFDC		132		DC	X'319416258824DFDC'	
000788		00788 00800	133		ORG	PRNOTEST+X'800'	
000800			134	F0	DS	0X	first operand
			135		YREGS	,	
	00000		137+R0		EQU	0	01-YREGS
	00001		138+R1		EQU	1	01-YREGS
	00002		139+R2		EQU	2	01-YREGS
	00003		140+R3		EQU	3	01-YREGS
	00004		141+R4		EQU	4	01-YREGS
	00005		142+R5		EQU	5	01-YREGS
	00006		143+R6		EQU	6	01-YREGS
	00007		144+R7		EQU	7	01-YREGS
	00008		145+R8		EQU	8	01-YREGS
	00009		146+R9		EQU	9	01-YREGS
	0000A		147+R10		EQU	10	01-YREGS
	0000B		148+R11		EQU	11	01-YREGS
	0000C		149+R12		EQU	12	01-YREGS
	0000D		150+R13		EQU	13	01-YREGS
	0000E		151+R14		EQU	14	01-YREGS
	0000F		152+R15		EQU	15	01-YREGS
			154		END		



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1	Relocation Dictionary						Page	7	1
2									2
3									3
4	Pos.Id	Rel.Id	Address	Type	Length	Action	HLASM R6.0	2024/10/15 09.40	4
5									5
6	00000001	00000001	000002D4	A	4	+			6
7									7
8									8
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1	Ordinary Symbol and Literal Cross Reference																Page 8		1	
2																			2	
3																			3	
4	Symbol	Length	Value	Id	R	Type	Asm	Program	Defn	References	HLASM R6.0 2024/10/15 09.40								4	
5																			5	
6	ENTROPY	8	00000708	00000001		X	X		117	45									6	
7	ERFIPS	8	00000748	00000001		X	X		125	54									7	
8	ERQUERY	16	000006F0	00000001		X	X		115	32									8	
9	F0	1	00000800	00000001		X	X		134	41	49	54	62	70	75	78	96	101	9	
10	PB	240	00000480	00000001		X	X		111	29M	30	32	39M	40	48	61	66	69	86M	10
11																			11	
12	PBNULL	1	00000600	00000001		X	X		114	29	39	75	79	86	101	104				12
13	PRNOTEST	1	00000000	00000001		J			18	20	22	24	108	110	113	133				13
14	R0	1	00000000	00000001	A	U			137	28M	38M	47M	60M	68M	85M	95M				14
15	R1	1	00000001	00000001	A	U			138	30M	40M	48M	61M	69M	87M				15	
16	R2	1	00000002	00000001	A	U			139	31M	41M	46M	49M	53M	62M	67M	70M	74M	88M	16
17																			17	
18	R3	1	00000003	00000001	A	U			140	42M	50M	63M	71M	78M	79	97M				18
19	R4	1	00000004	00000001	A	U			141	31	43M	46	51M	53	64M	67	72M	74	88	19
20																			20	
21	R5	1	00000005	00000001	A	U			142	44M	52M	65M	73M	99M					21	
22	S0	64	00000570	00000001		X	X		112	43	45M	51	64	66M	72	98	104			22
23	TRQUERY	8	00000700	00000001		X	X		116	89									23	
24	WAITPSW	16	00000400	00000001		X	X		109	107									24	
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HLASM R6.0 2024/10/15 09.40

147	R10
148	R11
149	R12
150	R13
151	R14
152	R15
143	R6
144	R7
145	R8
146	R9



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1	Macro and Copy Code Source Summary				Page 10	1
2						2
3						3
4	Con Source	Volume	Members	HLASM R6.0	2024/10/15 09.40	4
5						5
6	L1 MVS38J.SYS2.MACLIB	B5CFG1	YREGS			6
7						7
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1	Using Map										1
2											2
3											3
4											4
5	HLASM R6.0 2024/10/15 09.40										5
6	Stmt	-----Location-----	Action	-----Using-----	Reg	Max	Last Label and Using Text				6
7		Count	Id	Type	Value	Range	Id	Disp	Stmt		7
8	19	00000000	00000001	USING	ORDINARY	00000000	00001000	00000001	0 00800	107 *,0	8
9											9
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HLASM R6.0 2024/10/15 09.40

[illegible]

HLASM R6.0 2024/10/15 09.40

No Statements Flagged in this Assembly  
HIGH LEVEL ASSEMBLER, 5696-234, RELEASE 6.0, PTF UI93396

SYSTEM: z/OS 03.01.00                   JOBNAME: ASMHC           STEPNAME: C           PROCSTEP: (NOPROC)

Unicode Module: ASMA047C   From Page    1148   To Page    17584           ECECP: International 1  
Data Sets Allocated for this Assembly

Con	DDname	Data Set Name	Volume	Member
P1	SYSIN	IBMUSER.ASSEMBLE.SOURCE	A3SYS1	PRNOTEST
L1	SYSLIB	MVS38J.SYS2.MACLIB	B5CFG1	
	SYSLIN	IBMUSER.ASSEMBLE.OBJ	A3SYS1	PRNOTEST
	SYSPRINT	IBMUSER.ASMHC.JOB04525.D0000102.?		

26740K allocated to Buffer Pool	Storage required	200K	
136 Primary Input Records Read	23 Library Records Read		0 Work File Reads
0 ASMAOPT Records Read	319 Primary Print Records Written		0 Work File Writes
19 Object Records Written	0 ADATA Records Written		

Assembly Start Time: 09.40.24 Stop Time: 09.40.24 Processor Time: 01.11.34.9672  
Return Code 000

1											1			
2	AAAAAAAAAAAA SSSSSSSSSS MM MM HH HH CCCCCCCCCC										2			
3	AA AA SS SS MMMM MMMM HH HH CC CC										3			
4	AA AA SS MM MM MM MM HH HH CC										4			
5	AA AA SSS MM MMMM MM HH HH CC										5			
6	AAAAAAAAAAAA SSSSSSSS MM MM MM HHHHHHHHHHHH CC										6			
7	AAAAAAAAAAAA SSSSSSSS MM MM HHHHHHHHHHHH CC										7			
8	AA AA SSS MM MM MM HH HH CC										8			
9	AA AA SS MM MM MM HH HH CC										9			
10	AA AA SS SS MM MM MM HH HH CC CC										10			
11	AA AA SSSSSSSSSS MM MM MM HH HH CCCCCCCCCC										11			
12	AA AA SSSSSSSS MM MM MM HH HH CCCCCCCCC										12			
13											13			
14											14			
15											15			
16	JJJJJJJJJ	0000000000	BBBBBBBBBB	00000000	444	5555555555	22222222	5555555555		16				
17	JJJJJJJJJ	0000000000	BBBBBBBBBB	0000000000	4444	5555555555	2222222222	5555555555		17				
18	JJ	00	00	BB	BB	00	0000	44	44	55	22	55		18
19	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	19
20	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	20
21	JJ	00	00	BBBBBBBBBB	00	00	00	4444444444	55555555		22	55555555	21	
22	JJ	00	00	BBBBBBBBBB	00	00	00	444444444444	555555555		22	555555555	22	
23	JJ	00	00	BB	BB	00	00	00	44		55	22	55	23
24	JJ	JJ	00	00	BB	BB	0000	00	44		55	22	55	24
25	JJ	JJ	00	00	BB	BB	000	00	44		55	22	55	25
26	JJJJJJJ	0000000000	BBBBBBBBBB	0000000000	44	5555555555	2222222222	5555555555						26
27	JJJJJ	0000000000	BBBBBBBBBB	00000000	44	5555555555	2222222222	5555555555						27
28											28			
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31	**END*****END*****END*****END*****END*****END*****END*****END*****										31			
32	*										32			
33	* JOBID: JOB04525										33			
34	* JOB NAME: ASMHC										34			
35	* USER ID: IBMUSER										35			
36	* SYSOUT CLASS: J										36			
37	* OUTPUT GROUP: 1.1.1										37			
38	* TITLE:										38			
39	*										39			
40	* DESTINATION: LOCAL										40			
41	* NAME: J. Winkelmann										41			
42	* ROOM: JW										42			
43	* BUILDING:										43			
44	* DEPARTMENT:										44			
45	* ADDRESS:										45			
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49	*										49			
50	* PRINT TIME: 09:40:24										50			
51	* PRINT DATE: 15 OCT 2024										51			
52	* PRINTER NAME: PRT2										52			
53	* SYSTEM: SOW1										53			
54	*										54			
55	**END*****END*****END*****END*****END*****END*****END*****END*****										55			
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2	AAAAAAAAAAAA SSSSSSSSSS MM MM HH HH CCCCCCCCCC										2			
3	AA AA SS SS MMMM MMMM HH HH CC CC										3			
4	AA AA SS MM MM MM MM HH HH CC										4			
5	AA AA SSS MM MMMM MM HH HH CC										5			
6	AAAAAAAAAAAA SSSSSSSS MM MM MM HHHHHHHHHHHH CC										6			
7	AAAAAAAAAAAA SSSSSSSS MM MM HHHHHHHHHHHH CC										7			
8	AA AA SSS MM MM MM HH HH CC										8			
9	AA AA SS MM MM MM HH HH CC										9			
10	AA AA SS SS MM MM MM HH HH CC CC										10			
11	AA AA SSSSSSSSSS MM MM MM HH HH CCCCCCCCCC										11			
12	AA AA SSSSSSSS MM MM MM HH HH CCCCCCCCCC										12			
13											13			
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16	JJJJJJJJJJ	000000000000	BBBBBBBBBBBB	00000000	444	555555555555	222222222	555555555555			16			
17	JJJJJJJJJJ	000000000000	BBBBBBBBBBBB	0000000000	4444	555555555555	222222222222	555555555555			17			
18	JJ	00	00	BB	BB	00	0000	44	44	55	22	55		18
19	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	19
20	JJ	00	00	BB	BB	00	00	00	44	44	55	22	55	20
21	JJ	00	00	BBBBBBBBBB	00	00	00	444444444444	555555555		22	555555555		21
22	JJ	00	00	BBBBBBBBBB	00	00	00	444444444444	5555555555		22	555555555		22
23	JJ	00	00	BB	BB	00	00	00	44		55	22	55	23
24	JJ	JJ	00	00	BB	BB	0000	00	44		55	22	55	24
25	JJ	JJ	00	00	BB	BB	000	00	44		55	22	55	25
26	JJJJJJJJ	000000000000	BBBBBBBBBBBB	0000000000	44	555555555555	222222222222	555555555555						26
27	JJJJJJ	000000000000	BBBBBBBBBBBB	00000000	44	555555555555	222222222222	555555555555						27
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31	**END*****END*****END*****END*****END*****END*****END*****END*****										31			
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33	* JOBID: JOB04525										33			
34	* JOB NAME: ASMHC										34			
35	* USER ID: IBMUSER										35			
36	* SYSOUT CLASS: J										36			
37	* OUTPUT GROUP: 1.1.1										37			
38	* TITLE:										38			
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