

UCLA-CCN

MAY 2, 1973

CCN PROGRAM INDEX - PART I,

IBM DISTRIBUTED PROGRAMS

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ENTRIES IN THIS PART OF THE INDEX ARE MORE FULLY DESCRIBED IN 'CATALOG OF PROGRAMS FOR IBM SYSTEM/360',
FORM C20-1519. AN EXPLANATION OF THE COLUMN HEADINGS WILL BE FOUND AT THE END OF THIS LISTING.

'PROGRAM LIBRARIAN SERVICES REQUEST' (FORM CCN014) SHOULD BE USED TO REQUEST NEW PROGRAMS,
DOCUMENTATION, SOURCE DECKS, SOURCE DATA SETS, OR CHANGES IN PROGRAM RESIDENCE STATES. FORMS ARE AVAILABLE
IN THE CCN USER RELATIONS OFFICE.

A LISTING OF CATEGORY CODES WILL BE FOUND PRECEDING THE CCN PROGRAM INDEX.

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INDEX NUMBER	REV.	CAT.	CLS.	LANG.	CPU	REL.	TYRE	SYS.	SUP.	COPY	NAME / DESCRIPTION	DOC
360D-00.0.0.004	**	00.0	B	MACH	**	**	P	NO	0	NO	OS/360 GANG PUNCH UTILITY	IBM
360D-00.0.0.005	**	00.0	B	MACH	**	**	P	NO	0	YES	CORE-PUNCH UTILITY	IBM
360D-00.0.0.008	V 1.1.0	00.0	B	FORTRAN	75	R14	P	NO	0	YES	UNRAVL. FORTRAN CROSS-REF. LISTR.	IBM
360D-00.0.0.009	**	00.0	B	MACH	**	**	P	NO	0	YES	REPRO. & SEQ. NO. UTILITY	IBM
360D-00.0.0.010	**	00.0	B	MACH	**	**	P	NO	0	YES	TOS/DOS REPRO. & RESEQUENCE	IBM
360D-00.0.0.011	**	00.0	B	ASEM	**	**	P	NO	0	YES	DOS/TOS PAPER TAPE I/O	IBM
360D-00.0.0.012	**	00.0	B	ASEM	**	**	C	NO	0	YES	OS/44 EXT. REQ. UTILITY	IBM
360D-00.0.0.013	**	00.0	B	ASEM	**	**	P	NO	0	YES	GRAPHIC REPRESENTATION OF OVERLAY STRUCT.	IBM
360D-00.0.0.014	**	00.0	B	ASEM	**	**	P	NO	0	YES	DOS JOB CONTROL CONVERSION	IBM
360D-00.0.0.015	**	00.0	B	MACH	**	**	P	NO	0	YES	DOS CREATE & MAINTAIN LIBRARY	IBM
360D-00.0.0.016	**	00.0	B	MACH	**	**	P	NO	0	YES	MULTIPLE LIST PGM.	IBM
360D-00.0.0.017	**	00.0	B	ASEM	**	**	P	NO	0	YES	TAPE RPG OUTPUT FOR LATER PRINTING	IBM
360D-00.0.0.020	**	00.0	B	ASEM	**	**	P	NO	0	YES	OS/360 UTILITY I/O PGM.	IBM
360D-00.0.0.022	**	00.0	B	ASEM	**	**	P	NO	0	YES	DOS PUFFER, PUNCH FEED READ UTIL.	IBM
360D-00.0.1.002	V 1.1.0	00.0	B	ASEM	**	**	P	NO	0	YES	BPS PERIPHERAL PGM.	IBM
360D-00.1.0.003	**	00.1	B	ASEM	91	R13	P	NO	0	NO	CLIP/360	IBM
360D-00.1.0.004	**	00.1	B	ASEM	**	**	P	NO	0	YES	OS/360 MET. PERIPHERAL OPERATIONS	IBM
360D-00.1.0.005	**	00.1	B	ASEM	**	**	P	NO	0	YES	DOS TAPE/DISK DUMP	IBM
360D-00.1.0.006	**	00.1	B	ASEM	**	**	P	NO	0	YES	DOS/TOS DEBE UTILITY	IBM
360D-00.1.0.007	**	00.1	B	ASEM	**	**	P	NO	0	YES	MULTIPLE REPRODUCTION PGM.	IBM
360D-00.1.0.010	**	00.1	B	MACH	20	**	P	NO	0	NO	360/20 UNIT RECORD	IBM

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INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-00.1.011	**	00.1	B	ASEM	**	**	P	NO	0	YES	DOS DEBE MULTIPLE UTILITY	IBM
360D-00.1.013	**	00.1	B	ASEM	**	**	P	NO	0	YES	DOS DEBE UTILITY	IBM
360D-00.1.014	**	00.1	B	ASEM	91	R13	P	NO	0	NO	AUTODOC-V, DOCUMENTARY FLOWCHART	IBM
360D-00.1.015	**	00.1	B	ASEM	75	R14	P	YES	0	NO	DEBE, MULTIPLE UTILITY	IBM
360D-00.1.017	**	00.1	B	ASEM	**	**	P	NO	0	YES	DOS ON-LINE LOG	IBM
360D-00.1.018	**	00.1	B	ASEM	**	**	P	NO	0	YES	DOS INTERFILE PGM.	IBM
360D-00.1.020	**	00.1	B	**	**	**	P	NO	0	NO	EXTEND IEBCGENER FOR 2495 TAPE DEVICE	IBM
360D-00.1.021	**	00.1	B	PL/I	**	**	P	NO	0	YES	UPDATE, EXTRACT, MATCH, REFORMAT. FILES	IBM
360D-00.1.022	**	00.1	B	ASEM	**	**	P	NO	0	YES	NYU PRINT UTILITY, (EDIT, MULTIPLE)	IBM
360D-00.2.001	**	00.2	B	FORT	**	**	P	NO	0	YES	BPS/DOS/BOS FORT. FLOWCHART	IBM
360D-00.2.002	**	00.2	B	ASEM	**	**	P	NO	0	YES	DOS SYSTEM FLOW CHART	IBM
360D-00.2.004	**	00.2	B	ASEM	**	**	P	NO	0	YES	DOS/TOS JOB CONTROL FLOW-CHART	IBM
360D-00.2.005	**	00.2	B	ASEM	**	**	P	NO	0	YES	D/S FLOWCHARTS	IBM
360D-00.3.001	**	00.3	B	ASEM	**	**	P	NO	0	YES	MODIFIC. TO BPS MULT. UTILITY, V 2	IBM
360D-00.3.002	**	00.3	B	ASEM	**	**	P	NO	0	YES	PID MASTER TAPE PGM.	IBM
360D-00.3.003	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS/TOS TAPE INITIALIZATION	IBM
360D-00.3.006	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS LINE IMAGE TO PRINT	IBM
360D-00.3.007	**	00.3	B	ASEM	**	**	P	NO	0	YES	SORT USER EXIT FOR 1401 TAPE LABEL	IBM
360D-00.3.009	**	00.3	B	ASEM	**	**	P	NO	0	YES	SLIP, SOURCE LIBRARY ON TAPE SYS.	IBM
360D-00.3.010	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS SORT USER EXIT PROC. 1400 LABEL	IBM
360D-00.3.011	**	00.3	B	ASEM	**	**	P	NO	0	YES	BPS MULTIPLE TAPE GENERATION	IBM

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INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-00.3.012	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS/TOS TAPE SOURCE LIBRARY MAINT.	IBM
360D-00.3.014	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS/TOS ONTOS, UTILITY PACKAGE	IBM
360D-00.3.015	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS SSP UPDATE UTILITY	IBM
360D-00.3.016	**	00.3	B	ASEM	**	**	P	NO	0	YES	SOFT-WARE CONVERS. FOR 2400 TAPE DR.	IBM
360D-00.3.017	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS TAPE TO PRINT MULTI-PGM.	IBM
360D-00.3.018	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS MULTI-TAPE COPY & COMPARE	IBM
360D-00.3.019	V.3	00.3	B	ASEM	**	**	P	NO	0	YES	DOS SSP TAPE SELECT & DEBLOCK	IBM
360D-00.3.020	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS PRINT UTILITY	IBM
360D-00.3.021	**	00.3	B	ASEM	**	**	P	NO	0	YES	FILE CREATE A, DOS FILE UTILITY	IBM
360D-00.3.022	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS SSP RETRIEVE UTILITY	IBM
360D-00.3.023	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS TAPE RECORD RETRIEVAL	IBM
360D-00.3.024	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS TAPE SEARCH/PRINT UTILITY	IBM
360D-00.3.025	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS TAPE TO PRINT/PUNCH SPOOLING	IBM
360D-00.3.026	**	00.3	B	ASEM	**	**	C	NO	0	YES	FORTRAN TAPE/DISK I/O ROUTINES	IBM
360D-00.3.027	**	00.3	B	ASEM	**	**	P	NO	0	YES	DOS SEVEN TRACK TAPE OCTAL DUMP	IBM
360D-00.3.029	**	00.3	B	ASEM	**	**	M	NO	0	YES	TAPE FILE EXT, MACRO-INST.	IBM
360D-00.3.004	**	00.4	B	ASEM	**	**	P	NO	0	YES	TFC, TAPE FILE CREATION PGM.	IBM
360D-00.4.005	**	00.4	B	ASEM	**	**	P	NO	0	YES	DOS DISK INITIALIZATION	IBM
360D-00.4.006	**	00.4	B	ASEM	**	**	P	NO	0	YES	DOS CORE IMAGE LIBRARY TRSR. PGM.	IBM
360D-00.4.009	**	00.4	B	ASEM	**	**	P	NO	0	YES	DOS ELAPSED TIME LOGGING	IBM
360D-00.4.012	**	00.4	B	ASEM	**	**	P	NO	0	NO	DOS/360 LABEL CHANGER	IBM

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INDEX NUMBER	REV	CAT	CLS	LANG	CFU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-00.4.013	**	00.4	B	ASEM	**	**	P	NO	0	YES	OSDUMP, DIRECT ACCESS DEVICE DUMP	IBM
360D-00.4.014	**	00.4	B	ASEM	**	**	P	NO	0	YES	CHANGE1, DASD EXPIRATION DATE WRITER	IBM
360D-00.4.015	**	00.4	B	ASEM	**	**	P	NO	0	YES	DAP, DOS DIRECT ACCESS PATCH PGM.	IBM
360D-00.4.018	**	00.4	B	ASEM	**	**	P	NO	0	YES	DOS INDEX SEQ. DASD TO PRINT UTILITY	IBM
360D-00.5.001	**	00.5	B	ASEM	75	R17	P	NO	0	NO	INITIALIZE SINGLE DATA CELL	IBM
360D-00.5.004	**	00.5	B	ASEM	**	**	P	NO	0	YES	MFT DIRECT ACCESS UTILITY	IBM
360D-00.5.005	**	00.5	B	A&P	**	**	P	NO	0	YES	FORMATTED VTDC LISTING	IBM
360D-00.6.002	**	00.6	B	ASEM	**	**	P	NO	0	YES	GLIST, INTERFACE IEBPTPCH TO 2250	IBM
360D-00.6.003	**	00.6	B	ASEM	**	**	P	NO	0	YES	IBM 2250 EXPER. DRAFTING PGM.	IBM
360D-00.6.004	**	00.6	B	ASEM	**	**	M	NO	0	YES	ALPHAPAC, MACROS FOR 2250 SUPPORT	IBM
360D-00.6.007	**	00.6	B	ASEM	**	**	P	NO	0	YES	GDUMP, DUMP 2250 BUFFER AREA	IBM
360D-01.0.004	**	01.0	B	ASEM	**	**	P	NO	0	YES	DGS/TOS UTILITY SUBROUTINES	IBM
360D-01.0.006	**	01.0	B	ASEM	**	**	P	NO	0	YES	BRAILE PGM. GRADE 1	IBM
360D-01.0.007	**	01.0	B	MACH	**	**	C	NO	0	YES	CONV. BIN. TO DEC. OR DEC. TO BIN.	IBM
360D-01.0.008	**	01.0	B	COB	**	**	P	NO	0	YES	TIME / DATE FOR COBOL PROGRAMS	IBM
360D-01.0.009	**	01.0	B	ASEM	**	**	C	NO	0	YES	DT01, DATE & TIME CONV. FOR ASSEM & RPG	IBM
360D-01.1.001	**	01.0	B	ASEM	**	**	P	NO	0	YES	PAPER TAPE UTILITY	IBM
360S-UT-506	**	01.0	B	ASEM	91	R20	P	YES	6	NO	OS/360 UTILITIES	C28-6586
360D-01.4.005	**	01.4	B	ASEM	**	**	P	NO	0	YES	TRACE, OS/360 PROGRAM EXECUTION TRACE	IBM
360D-01.4.009	**	01.4	B	ASEM	**	**	P	NO	0	NO	SUPERSCR, PCP & MFT D.A. SCRATCH	IBM
360D-01.6.002	**	01.6	B	ASEM	**	**	P	NO	0	YES	ISAM GENERAL UTILITY PROGRAM	IBM

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360D-01.6.003	**	01.6	B	ASEM	91	R20	P	YES	0	NO	SUPERZAP	IBM
360D-01.6.005	**	01.6	B	ASEM	**	**	P	NO	0	YES	VT0C4MAT, LISTS VT0CS	IBM
360D-01.6.006	**	01.6	B	ASEM	**	**	P	NO	0	YES	REORG. STATISTICS FOR INDEX SEQ. FILE	IBM
360D-02.0.001	**	02.0	B	A&F	**	**	P	NO	0	YES	FORTRAN DIAGNOSTIC ROUTINE	IBM
360S-ED-521	**	02.0	B	ASEM	91	R20	P	YES	6	NO	O/S 360 LINKAGE EDITOR	C28-6538
360S-AL-531	**	03.1	B	ASEM	91	R20	P	YES	0	NO	OS/360 ALGOL F COMPILER	C28-6615
360S-AS-037	**	03.1	B	ASEM	91	R20	P	YES	0	NO	OS/360 ASSEMBLER F	C28-6514
360S-CB-524	**	03.1	B	ASEM	91	R20	P	YES	0	NO	OS/360 COBOL F COMPILER	C28-6516
360S-CD-545	**	03.1	B	ASEM	91	R13	P	YES	0	NO	OS/360 USA COBOL COMPILER	C28-6396
360D-03.1.009	**	03.1	B	ASEM	**	**	P	NO	0	YES	MACRO PROGRAM METHOD FOR OS/360	IBM
360D-03.1.013	**	03.1	B	ASEM	**	**	P	YES	0	NO	1130 & 1800 ASSEMBLER	IBM
360D-03.1.014	V 1,M 1	03.1	B	ASEM	**	**	P	NO	0	YES	FAST OS/360 ASSEM. INTERP. PGM.	IBM
360S-ED-500	**	03.1	B	FORT	91	R20	P	YES	6	NO	OS/360 FORTRAN H COMPILER	C28-6815
360S-FO-520	**	03.1	B	ASEM	91	R20	P	YES	6	NO	OS/360 FORTRAN G COMPILER	C28-6815
360S-LM-501	**	03.1	B	ASEM	91	R20	P	YES	6	NO	OS/360 FORTRAN LIBRARY	C28-6596
360S-LM-512	**	03.1	B	ASEM	91	R20	P	YES	6	NO	OS/360 PL/I LIBRARY	C28-6590
360S-LM-525	**	03.1	B	ASEM	91	R20	P	YES	6	NO	OS/360 COBOL LIBRARY	IBM
360S-LM-532	**	03.1	B	ASEM	91	R20	P	YES	0	NO	OS/360 ALGOL LIBRARY	IBM
360S-LM-540	**	03.1	B	ASEM	91	R13	P	YES	0	NO	OS/360 USA COBOL LIBRARY	IBM
360S-NL-511	**	03.1	B	ASEM	91	R20	P	YES	6	NO	OS/360 PL/I F COMPILER	C28-8201
360D-03.2.004	**	03.2	B	PL/I	91	R20	P	NO	0	YES	PET, PRE-PROCESS ENCODED TABLES	IBM

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360D-03.2.008	**	03.2	B	FORT	**	**	P	NO	0	YES	KINETIC SIMUL. LANG., CHEM. & BIOCHEM.	IBM
360D-03.2.010	V 1,M 1	03.2	B	ASEM	**	**	P	NO	0	YES	JOVIAL COMPILER FOR OS/360	IBM
360D-03.2.014	V 1,M 0	03.2	B	ASEM	91	R18	P	NO	0	NO	SIMSCRIPT 2	IBM
360D-03.2.015	**	03.2	B	ASEM	**	**	P	NO	4	YES	XPL COMPILER GENERATOR	IBM
360D-03.3.004	**	03.3	B	P&A	91	R13	P	NO	4	YES	PL/I FORMAC INTERPRETER	IBM
360D-03.3.011	**	03.3	B	ASEM	**	**	P	NO	0	YES	COMIT/360, STRING MANIP. & LIST PRCC.	IBM
360D-03.4.007	**	03.4	B	ASEM	**	**	C	NO	0	YES	OBJFMT, EXECUT. TIME FORMAT FOR FORT.	IBM
360D-03.4.026	**	03.4	B	ASEM	**	**	C	NO	0	YES	BSAM SUBR. PKG. FOR FORTRAN	IBM
360D-03.4.027	**	03.4	B	FORT	91	R17	C	NO	0	YES	FORT. RANDOM I/O SUB.	IBM
360D-03.4.031	**	03.4	B	ASEM	**	**	C	NO	0	YES	KIOP, KNUTH PROPOSAL I/O FOR ALGOL	IBM
360D-03.5.005	**	03.5	B	PL/I	**	**	P	NO	0	YES	PROCESS CATALOG ABSTRACTS & INDICES	IBM
360S-RG-038	**	03.5	B	ASEM	91	R20	P	YES	4	NO	OS/360 RPG	C24-3337
360D-03.6.001	**	03.6	B	PL/I	75	R14	P	NO	0	YES	FORTAN XREF., NAMES, STATEMENTS	IBM
360D-03.6.003	**	03.6	B	ASEM	**	**	P	NO	0	YES	COBOL CROSS-REF., ALP FORMAT	IBM
360D-03.6.005	**	03.6	B	ASEM	**	**	M	NO	0	YES	PL/I PRE-COMPILER, FULL LANG., FAST	IBM
360D-03.6.006	**	03.6	B	COB	**	**	P	NO	0	YES	DOS COBOL X-REF. & RESEQUENCE	IBM
360D-03.6.007	**	03.6	B	COB	**	**	P	NO	0	YES	COBOL SOURCE CROSS-REF. LIST	IBM
360D-03.6.009	**	03.6	B	COB	**	**	P	NO	0	YES	COBOL X-REF. & RESEQUENCE	IBM
360D-03.6.017	**	03.6	B	PL/I	**	**	P	NO	0	YES	DOS PL/I CONVERT 60 TO 48 CHAR. SET	IBM
360D-03.6.018	**	03.6	B	PL/I	50	R17	P	NO	0	YES	NEATER, PL/I SOURCE REFORMATTER	IBM
360D-03.7.006	**	03.7	B	ASEM	**	**	M	NO	0	YES	DOS MACRO CHANNEL COMMAND WORD	IBM

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-03.7.019	**	03.7	B	ASEM	**	**	M	NO	0	YES	MACRO FOR SORT/MERGE EXIT SUMMARY	IBM
360D-03.8.002	**	03.8	B	ASEM	**	**	C	NO	0	YES	FORCOM-360, ADDS COMMERC. FUNCTS. TO FORT.	IBM
360D-03.8.003	**	03.8	B	ASEM	91	R17	C	NO	0	YES	WEEKDAY, CONVRTS. 360 DATE TO DAY	IBM
360D-03.8.005	**	03.8	B	ASEM	**	**	C	NO	0	YES	ADDS BINARY FUNCTS. TO BPS FORT.	IBM
360D-03.8.013	**	03.8	B	PL/I	**	**	C	NO	0	YES	PL/I STRING FUNCTION EXTENSIONS	IBM
360D-04.0.003	**	04.0	B	COB	**	**	P	NO	0	YES	COBOL X-REF, FILE ELEMENTS	IBM
360D-04.0.004	**	04.0	B	**	**	**	P	NO	0	YES	COBOL X-REF, DATA NAMES	IBM
360D-04.0.005	**	04.0	B	ASEM	**	**	P	NO	0	YES	PROGRAM CHECK INTERRUPTION MONITOR	IBM
360D-04.0.006	**	04.0	B	**	**	**	C	NO	0	YES	CLOCK, OS/360 REAL TIME	IBM
360D-04.0.007	**	04.0	B	ASEM	**	**	P	NO	0	YES	FLUID, LIST & UPDATE DECKS (INCL. OBJ.)	IBM
360D-04.0.009	**	04.0	B	ASEM	**	**	M	NO	0	YES	DOS PCMSG, PROGRAM CHECK MESSAGE	IBM
360D-04.0.010	**	04.0	B	ASEM	**	**	M	NO	0	YES	I/O MACROS FOR ASSEM, DEBUGGING	IBM
360S-PT-516	**	04.0	B	ASEM	91	R20	P	YES	0	NO	OS/360 TESTRAN	C28=6648
360D-04.1.003	**	04.1	B	ASEM	**	**	P	NO	0	YES	LIST SEQUENTIAL DATA SET	IBM
360D-04.1.004	**	04.1	B	ASEM	**	**	P	NO	0	YES	LIST INDEX SEQUENTIAL DATA SET	IBM
360D-04.1.005	**	04.1	B	ASEM	75	R14	P	YES	0	NO	DUMP, DISASSEMBLE, DELINKEDIT	IBM
360D-04.1.006	**	04.1	B	FORT	**	**	P	NO	0	YES	XXXF DUMP	IBM
360D-04.1.007	**	04.1	B	ASEM	**	**	P	NO	0	YES	PRINT INDEX SEQ. FILES	IBM
360D-04.1.008	**	04.1	B	ASEM	**	**	P	NO	0	YES	DIRECT ACCESS DUMP	IBM
360D-04.2.004	**	04.2	B	ASEM	**	**	P	NO	0	YES	SELECTING PRINT RAPID INSTR TRACE	IBM
360D-04.2.006	V 2, M 0	04.2	B	ASEM	**	**	P	NO	0	YES	HIGHER LANGUAGE DIAGNOSTIC AIDS	IBM

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360D-04.2.007	**	04.2	B	ASEM	**	**	P	NO	0	YES	DOS INDICATE LOOPS IN COMPUTE BOUND JOB	IBM
360D-04.3.001	**	04.3	B	ASEM	**	**	P	NO	0	YES	DOS TAPE TEST FILE GENERATOR	IBM
360D-04.3.003	**	04.3	B	ASEM	**	**	C	NO	0	YES	I/O PKGE. FOR PL/I OR ASSEM.	IBM
360D-04.3.004	**	04.3	B	ASEM	**	**	P	NO	0	YES	TEST DATA GENERATING PROGRAM	IBM
360D-04.4.003	**	04.4	B	A&F	**	**	P	NO	0	NO	SETBTF, ERROR ROUTINE FOR BPS FORT.	IBM
360D-04.4.006	**	04.4	B	ASEM	75	R14	P	NO	0	NO	HIGH WATER MARK	IBM
360D-04.4.008	**	04.4	B	ASEM	**	**	P	NO	0	YES	OVERLAY DEBUGGING & ANALYSIS	IBM
360D-04.6.001	**	04.6	B	ASEM	**	**	P	NO	0	YES	2250 GRAPICS, ON LINE DEBUGGING	IBM
360D-05.1.007	**	05.1	B	ASEM	75	R14	P	YES	0	NO	HASP	IBM
360D-05.1.014	**	05.1	B	ASEM	**	**	P	YES	0	NO	HASP II	IBM
360D-05.1.018	**	05.1	B	ASEM	**	**	P	NO	0	NO	BEST, BAYLOR EXEC. SYS. FOR TELERE.	IBM
360D-05.2.002	**	05.2	B	ASEM	**	**	P	NO	0	NO	FHMCLG, FORT. H MULTI-COMPILE	IBM
360D-05.3.001	**	05.3	B	ASEM	**	**	P	NO	0	YES	STAND-ALONE DISASSEMBLER	IBM
360S-SM-023	**	06.1	B	ASEM	91	R20	P	YES	6	NO	OS/360 SORT / MERGE	C28-6543
360D-06.3.001	**	06.3	B	ASEM	**	**	P	NO	0	YES	DOS PAPER TAPE UTILITY	IBM
360D-06.4.001	**	06.4	B	ASEM	**	**	C	NO	0	YES	BINARY SEARCH ROUTINE	IBM
360D-06.5.002	**	06.5	B	FORT	75	R14	C	NO	0	YES	CONV. SIGN OVERPUNCH TO # & SIGN	IBM
360D-06.5.003	**	06.5	B	ASEM	**	**	M	NO	0	YES	DSHIFT, OS/360 DECIMAL SHIFT MACRO	IBM
360D-06.5.005	**	06.5	B	ASEM	**	**	P	NO	0	YES	DATA STRING REPLACEMENT	IBM
360D-06.5.006	**	06.5	B	ASEM	**	**	C	NO	0	YES	CVL08, CONVERT UNIVAC 1108 FLT. PT. TO 360	IBM
360D-06.5.007	**	06.5	B	ASEM	**	**	C	NO	0	YES	CFL090, CONVERT 7090 FLT. PT. TO 360	IBM

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INDEX NUMBER	REV	CAT	CLS	LANG	CRU	REL	TYPE	SYS	SUB	COPY	NAME / DESCRIPTION	DOC
360D-06.6.001	**	06.6	B	FORT	**	**	C	NO	0	YES	FORT. PERMUTATION GENERATOR SUBR.	IBM
360D-06.6.003	**	06.6	B	FORT	91	R17	C	NO	0	YES	FORT. CHAR. STRING PKGF.	IBM
360D-06.6.004	**	06.6	B	ASEM	91	R17	C	NO	0	YES	PLZI CHARACTER FILTER	IBM
360D-06.7.005	V 1,M 2	06.7	B	FORT	91	R18	P	NO	0	YES	CLUSTER ANAL. & TAXONOMY	IBM
360D-06.7.006	V 1,M 2	06.7	B	FORT	91	R17	P	NO	0	YES	CLUSTER ANAL. & TAXONOMY	IBM
360D-06.7.007	V 1,M 2	06.7	B	FORT	91	R17	P	NO	0	YES	CLUSTER ANAL. & TAXONOMY	IBM
360D-06.7.009	**	06.7	B	A&C	**	**	P	NO	0	YES	MIS, MANAGEMENT INFORMATION SYSTEM	IBM
360D-06.7.011	**	06.7	B	ASEM	**	**	P	NO	0	YES	FASTER, INDEX SEQ. RETRIEVAL	IBM
360D-06.7.015	**	06.7	B	COB	**	**	P	NO	0	YES	COBOL CARD FILE MAINTENACE	IBM
360D-06.7.018	**	06.7	B	ASEM	**	**	P	NO	0	YES	BSEARCH, DIRECT ACCESS BINARY SEARCH	IBM
360D-06.7.019	**	06.7	B	FORT	**	**	P	NO	0	YES	KWADE, KEYWORD DICTIONARY ENTRY	IBM
360D-06.7.021	**	06.7	B	ASEM	**	**	C	NO	0	YES	AUTDRAF, RECORD ADDRESS FILES DIR. PROC.	IBM
360D-06.7.022	**	06.7	B	PLZI	91	R18	P	NO	0	YES	KWIC INDEX COMPILER	IBM
360D-06.7.024	**	06.7	B	ASEM	**	**	P	NO	0	YES	GENERATION DATA GROUP MOD.	IBM
360D-07.3.002	**	07.3	B	A&F	**	**	C	NO	0	YES	FORT. BLANK FIELD DETECTOR (INPUT)	IBM
360D-08.0.001	**	08.1	B	ASEM	**	**	P	NO	0	YES	DOS 1770 INQUIRY ANS. PRG.	IBM
360D-08.0.003	**	08.3	B	FORT	**	**	C	NO	0	YES	WRIMAT, OUTPUT MATRIX WRITER	IBM
360D-08.6.001	**	08.6	B	FORT	**	**	C	NO	0	YES	PLOTS, PRINTER TIME-SERIES PLOTTER	IBM
360D-08.6.003	**	08.6	B	FORT	91	R18	C	NO	0	YES	PRTPLT, PRINTER PLOTTING SUBR.	IBM
360D-08.6.008	**	08.6	B	FORT	**	**	C	NO	0	YES	GRAPH, FUNCTION PRINTER PLOTTER SUBR.	IBM
360D-08.7.001	**	08.7	B	ASEM	**	**	P	NO	0	YES	2250 FORTRAN DISPLAY PKG.	IBM

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360D-08.7.003	**	08.7	B	FORT	**	**	C	NO	0	YES	HIST, HISTOGRAM DISPLAY	IBM
360D-08.7.004	**	08.7	B	FORT	**	**	C	NO	0	YES	ID/3D, 3 DIM. INTRSECTIONS, PLANES, ETC.	IBM
360D-08.7.006	**	08.7	B	FORT	**	**	C	NO	0	YES	SPLIT, ONE PAGE PRINTER PLOTTER	IBM
360D-10.0.002	**	10.0	B	ASEM	**	**	P	NO	0	YES	FORTRAN ANALYSIS PROGRAM	IBM
360D-10.1.001	**	10.1	B	FORT	**	**	P	NO	0	YES	LINE COST CALC., TELEPROCESSING	IBM
360D-10.2.001	**	10.2	B	ASEM	**	**	P	NO	0	YES	INDEXED SEQ. FILE SPACE ANALYSIS	IBM
360D-10.2.003	**	10.2	B	FORT	**	**	P	NO	0	YES	SPACE REQUIREMENTS FOR ISAM D.S.	IBM
360D-10.2.004	**	10.2	B	ASEM	**	**	C	NO	0	NO	HIGH WATER MARK	IBM
360D-10.2.005	**	10.2	B	ASEM	**	**	C	NO	0	NO	CRC, COPE RESOURCE CONFLICT	IBM
360D-11.1.001	**	11.1	B	ASEM	**	**	P	NO	0	YES	BURROUGHS B280 SIMULATOR PGM.	IBM
360D-11.1.002	**	11.1	B	ASEM	**	**	P	NO	0	YES	BURROUGHS B280 SIMULATOR PGM.	IBM
360D-11.1.003	**	11.1	B	ASEM	**	**	P	NO	0	YES	BURROUGHS B180 SIMULATOR PGM.	IBM
360D-11.1.005	**	11.1	B	ASEM	**	**	P	NO	0	YES	CONVERT RCA 381 TAPE TO OS/360	IBM
360D-11.1.008	**	11.1	B	ASEM	**	**	P	NO	0	YES	RCA 501 SIMULATOR PGM.	IBM
360D-11.1.009	**	11.1	B	ASEM	**	**	P	NO	0	YES	RCA 301 SIMULATOR PGM.	IBM
360D-11.1.011	**	11.1	B	ASEM	**	**	P	NO	0	YES	GE 225 SIMULATOR PGM.	IBM
360D-11.1.015	**	11.1	B	ASEM	**	**	P	NO	0	YES	RCA 381 -> SYS/360 TAPE CONV	IBM
360D-11.1.017	**	11.1	B	ASEM	**	**	P	NO	0	YES	1401 SIMULATOR PGM.	IBM
360D-11.1.018	**	11.1	B	ASEM	**	**	P	NO	0	YES	DOS 1401 SIMULATOR PGM.	IBM
360D-11.1.019	**	11.1	B	ASEM	**	**	P	NO	0	YES	1401 SIMULATOR PGM.	IBM
360D-11.1.021	**	11.1	B	ASEM	**	**	P	NO	0	YES	BURROUGHS 280/283 SIMULATOR	IBM

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-11.1.012	**	11.2	B	ASEM	**	**	P	NO	0	YES	CONVERT RCA 382 TAPE TO OS/360	IBM
360D-11.2.003	**	11.2	B	ASEM	**	**	P	NO	0	YES	UNIVAC SIMULATOR PGM.	IBM
360D-11.4.002	**	11.4	B	PL/I	**	**	P	NO	0	YES	DCALC, INTERACTIVE DESK CALC.	IBM
360D-12.0.003	**	12.0	B	FORT	75	R14	P	NO	0	NO	FORTAN SIFT, AIDS CONV. TO 360	IBM
360D-12.0.009	**	12.0	B	ASEM	**	**	P	NO	0	YES	ENGLISH TO BRAILLE, GRADE 2	IBM
360D-12.1.011	**	12.1	B	ASEM	91	R18	C	YES	0	NO	7 TO 9 TRACK TAPE CONVERSION SUBRTNS	IBM
360D-12.1.014	**	12.1	B	ASEM	**	**	P	NO	0	YES	TIRNKL, CONVERT 7094 PREST TO OS/360	IBM
360D-12.1.015	**	12.1	B	ASEM	**	**	P	NO	0	YES	HONEYWELL 200 TO OS/360 CONV. UTIL.	IBM
360D-12.1.017	**	12.1	B	ASEM	**	**	P	NO	0	YES	CONVERT UNIVAC 490 TAPE TO OS/360	IBM
360C-CV-710	**	12.2	B	A&P	91	R18	P	YES	0	NO	FORT, TO PL1 TRANSLATE	C33-2002
360D-12.2.002	**	12.2	B	PL/I	**	**	P	NO	0	YES	FORT IV TO PL/I TRANSLATOR	IBM
360D-12.2.008	**	12.2	B	ASEM	**	**	P	NO	0	YES	CDC TO IBM COBOL TRANSLATE	IBM
360D-13.0.009	**	13.0	B	FORT	**	**	C	NO	0	YES	HISTOGRAM SUBROUTINE	IBM
360D-13.1.005	**	13.1	B	FORT	**	**	P	NO	0	YES	GENERAL TAXGNOMY PROGRAM	IBM
360D-13.2.003	**	13.2	B	PL/I	**	**	P	NO	0	YES	NLIN, NON-LINEAR LEAST SQUARES ESTIMAT.	IBM
360D-13.3.001	**	13.3	B	FORT	**	**	P	NO	0	YES	SPEARMAN RANK-CORR. COEFF. SYS.	IBM
360D-13.4.001	**	13.4	B	FORT	91	R18	C	NO	0	YES	FOURT, FAST FOURIER TRANSFORM	IBM
360D-13.4.002	**	13.4	B	FORT	91	R18	C	NO	0	YES	FOUR1, FAST FOURIER TRANSFORM	IBM
360D-13.4.003	**	13.4	B	FORT	91	R18	C	NO	0	YES	FOUR2, FAST FOURIER TRANSFORM	IBM
360D-13.4.004	**	13.4	B	FORT	**	**	P	NO	0	YES	PROCESS MODEL AND CONTROL DESIGN	IBM
360D-13.4.005	**	13.4	B	FORT	**	**	P	NO	0	YES	FOURG, VERY SHORT COOLEY-TUKEY FOURIER TR.	IBM

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360D-13.4.006	**	13.4	B	FORT	**	**	P	NO	0	YES	FOR2D, FOR D.A. STORED DATA, FOURIER TRSF.	IBM
360D-13.4.007	**	13.4	B	FORT	**	**	P	NO	0	YES	RESCALED RANGE TRANSFORM	IBM
360D-13.4.008	V 1.M 0	13.4	B	ASEM	**	**	C	NO	0	YES	FOUR2, IN ASSEM., FOURIER TRSF.	IBM
360D-13.6.001	**	13.6	B	FORT	**	**	P	NO	0	YES	STEPWISE MULTIPLE REGRESSION	IBM
360D-13.6.003	**	13.6	B	FORT	**	**	P	NO	0	YES	NON-LINEAR PARAMETER ESTIMATION & MODEL	IBM
360D-13.6.004	**	13.6	B	FORT	91	R13	C	NO	0	YES	PLOT CONSTANT CONTOUR ON PRINTER	IBM
360D-13.6.005	**	13.6	B	PL/I	**	**	P	NO	0	YES	NON-LINEAR REGR. EST. & PREDICT	IBM
360D-13.6.006	**	13.6	B	FORT	**	**	P	NO	0	YES	MULT. REGRESSION W/ STD. ERROR	IBM
360D-13.6.007	**	13.6	B	FORT	**	**	P	NO	0	YES	NON-LINEAR LEAST SQUARES CURVE FIT	IBM
360D-13.6.008	**	13.6	B	FORT	**	**	P	NO	0	YES	LINEAR LEAST SQUARES CURVE FIT	IBM
360E-13.6.002	**	13.6	B	ASEM	**	**	P	NO	0	YES	INTERCORRELATION MATRIX	IBM
360D-13.7.001	**	13.7	B	FORT	**	**	P	NO	0	YES	DIALL, LEAST SQUARES ANAL. OF VARIANCE	IBM
360D-15.0.001	**	15.0	B	ASEM	**	**	P	NO	0	YES	STUDENT SCHEDULING SYSTEM, DCS	IBM
360D-15.0.002	**	15.0	B	PL/I	**	**	P	NO	0	YES	FLIGHT CREW SCHEDULER	IBM
360D-15.0.004	**	15.0	B	A&E	**	**	P	NO	0	YES	AUTOMATED LAYOUT DESIGN	IBM
360D-15.1.001	**	15.1	B	COB	**	**	P	NO	0	YES	UNIVERS. ADMIN. DECISION LAB.	IBM
360D-15.1.002	**	15.1	B	FORT	**	**	P	NO	0	YES	PURDUE SUPERMKT MGT. GAME	IBM
360D-15.1.003	**	15.1	B	COB	**	**	P	NO	0	YES	INVENTORY MGT. SIMULATOR, DOS	IBM
360D-15.1.004	**	15.1	B		75	R14	P	NO	0	NO	GASP 3, GEN. ACADEMIC SIMUL. PGM.	IBM
360D-15.1.006	**	15.1	B	FORT	**	**	P	NO	0	YES	DOS DISCOUNTED CASH FLOW EVALUATION	IBM
360D-15.1.007	V 1.L 0	15.1	B	ASEM	91	R13	P	NO	5	NO	GPSS, GEN. PURP. SIM. SYS	H20-0326

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INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-15.2.001	**	15.2	B	COB	**	**	P	NO	0	YES	UNIV. ADMIN. DECISION LAB.	IBM
360D-15.2.002	**	15.2	B	FORT	**	**	P	NO	0	YES	TRANSPORTATION LINEAR PGM	IBM
360D-15.2.005	**	15.2	B	FORT	91	R18	P	NO	0	YES	BRANCH & BOUND MIXED INTEGERS	IBM
360D-15.2.006	**	15.2	B	FORT	**	**	P	NO	0	YES	SIMPLEX LINEAR PGM., CONTRACTED TABL.	IBM
360D-15.2.007	**	15.2	B	FORT	**	**	P	NO	0	YES	MFOR, REV. SIMPLEX, LINEAR PGM.	IBM
360D-15.2.009	**	15.2	B	FORT	**	**	P	NO	0	YES	LARGE SCALE TRANSPORT. PROBLEM	IBM
360D-15.2.010	**	15.2	B	FORT	**	**	P	NO	0	YES	FORTTRAN TRANSPORTATION CODE	IBM
360D-15.2.011	**	15.2	B	FORT	91	R18	P	NO	0	YES	DIRECT SEARCH, 0 - 1, W/HEURISTICS	IBM
360A-CO-14X	V 2, M 8	15.3	B	ASEM	91	R20	P	NO	5	NO	MPS/360, MATH. PRDG. SYS.	H20-0476
360D-15.3.001	**	15.3	B	FORT	91	R18	P	NO	0	YES	RICOCHET, NON-LINEAR OPTIMIZATION	IBM
360A-CP-04X	V 2, M 0	15.4	B	P, A	91	R18	P	NO	0	NO	PROJ. MGT. SYS. W/ PERT	H20-0344
360A-CP-06X	**	15.4	B	A, F	75	R14	P	NO	5	NO	PROJECT CONTROL SYSTEM	IBM
360A-CS-17X	V 1, L 0	15.4	B	ASEM	91	R20	P	YES	0	NO	GEN. PURPOSE SIMULATION	H20-0326
360D-15.4.001	**	15.4	B	FORT	**	**	P	NO	0	YES	CPM PERT TIME, BOS	IBM
360D-15.4.002	**	15.4	B	FORT	**	**	P	NO	0	YES	CRITICAL PATH AND MANPOWER LEVELING, DOS	IBM
360D-15.4.004	**	15.4	B	**	**	**	P	NO	0	NO	ICES/360 PROJECT I	IBM
360D-15.4.005	**	15.4	B	PL/I	**	**	P	NO	0	YES	GANTT REPORT, MASTER PLANNING	IBM
360D-15.4.006	**	15.4	B	**	**	**	P	NO	0	YES	ICES/360 SOURCE PROJECT I	IBM
360D-15.5.001	**	15.5	B	A&F	**	**	P	NO	0	NO	DOS MANAGEMENT DECISION GAME	IBM
360D-15.5.002	**	15.5	B	FORT	**	**	P	NO	0	YES	DOS HOSPITAL ADMN. DECISION LAB.	IBM
360A-CX-16X	V 1, L 0	15.6	B	ASEM	91	R20	P	NO	4	NO	CSMP, CONT. SYS. MODL.	H20-0367

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INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-15.6.001	**	15.6	B	FORT	**	**	P	NO	0	YES	SPLT1, SIMPLE PLANT LOCAT. PPGM.	IBM
360D-15.6.002	**	15.6	B	FORT	**	**	P	NO	0	YES	PLANNING SYSTEMS GENERATOR	IBM
360D-15.1.001	**	15.1	B	FORT	**	**	P	NO	0	YES	AEROSPACE VEHIC. DES.	IBM
360D-16.2.001	**	16.2	B	FORT	**	**	P	NO	0	YES	TSOP/360, TRAFFIC SIGNAL CONTROL EST.	IBM
360D-16.2.003	**	15.2	B	**	**	**	P	NO	0	YES	DOS ICES COGO, COORD. GEOM	IBM
360D-16.2.004	V 1, M 1	16.2	B	**	**	**	P	NO	0	NO	ICES OPERATING SYSTEM	IBM
360D-16.2.005	V 1, M 1	16.2	B	**	**	**	P	NO	0	NO	ICES OPF. SYS. + LANG.	IBM
360D-16.2.006	**	16.2	B	**	**	**	P	NO	0	NO	ICES COGO, GEOMETRICS	IBM
360D-16.2.007	**	15.2	B	**	**	**	P	NO	0	NO	ICES STRUDL, STRUCTURAL DESIGN	IBM
360D-16.2.008	**	15.2	B	**	**	**	P	NO	0	NO	ICES TABLE I	IBM
360D-16.2.009	**	16.2	B	**	**	**	P	NO	0	NO	ICES SEPOL, SOIL FOUND. STRESS	IBM
360D-16.2.010	**	15.2	B	**	**	**	P	NO	0	NO	ICES HIGHWAY DESIGN	IBM
360D-16.2.011	**	16.2	B	**	**	**	P	NO	0	NO	ICES TRANSET, ANAL. INEQ. PROC.	IBM
360D-16.2.012	**	16.2	B	**	**	**	P	NO	0	NO	ICES COGO EDUCATION PKG.	IBM
360D-16.2.013	**	16.2	B	**	**	**	P	NO	0	NO	ICES BRIDGE DESIGN SYS.	IBM
360D-16.2.014	**	16.2	B	**	**	**	P	NO	0	NO	ICES TABLE FILE SYSTEM	IBM
360D-16.2.015	**	15.2	B	**	**	**	P	NO	0	NO	ICES STRUDL, STRUCTURAL DESIGN	IBM
360D-16.2.016	**	16.2	B	A&F	**	**	P	NO	0	NO	STRESS, STRUCTURAL ENG. SYS., DOS	IBM
360D-16.2.017	**	15.2	B	**	**	**	P	NO	0	NO	ICES OPTTECH I, MATH. OPTIMIZATION	IBM
360D-16.2.018	**	15.2	B	FORT	**	**	P	NO	0	YES	BULKHEAD SHEET PILING ANALYSIS	IBM
360D-16.2.019	**	16.2	B	**	**	**	P	NO	0	YES	ICES STRUDL II	IBM

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INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	CDPY	NAME / DESCRIPTION	DOC
360D-16.2.020	**	16.2	B	FORT	**	**	P	NO	0	YES	COLUMN DESIGN, WORKING STRESS METHOD	IBM
360D-16.2.021	**	16.2	B	**	**	**	P	NO	0	YES	ICES TRANSET I, SOURCE	IBM
360D-16.2.022	**	16.2	B	FORT	**	**	P	NO	0	YES	GC-21, CALC. REACT. METAL PLATE BENDS	IBM
360D-16.2.023	**	16.2	B	**	**	**	P	NO	0	YES	ICES, COGO I, SOURCE	IBM
360D-16.2.024	**	16.2	B	**	**	**	P	NO	0	YES	ICES, ROADS I, SOURCE	IBM
360D-16.2.025	**	16.2	B	**	**	**	P	NO	0	YES	ICES/360 TABLE II	IBM
360D-16.2.026	**	16.2	B	**	**	**	P	NO	0	YES	ICES/360 LEASE-I	IBM
360D-16.3.001	**	16.3	B	FORT	**	**	P	NO	0	YES	ECON, EVALUATION FOR RESEARCH PROJ.	IBM
360D-16.4.001	**	16.4	B	FORT	91	R20	P	NO	4	NO	ECAP, ELECTRIC CIRCUIT ANALYSIS	IBM
360D-16.4.003	**	16.4	B	FORT	91	R18	P	NO	3	NO	PANE, CIRCUIT ANALYSIS	IBM
360D-16.4.005	**	16.4	B	ASEM	**	**	P	NO	0	NO	LOAD FLOW, ELECTRICAL POWER SYS.	IBM
360D-16.4.008	**	16.4	B	FORT	**	**	P	NO	0	YES	SHORT CIRCUIT ANALYSIS PGM.	IBM
360D-16.4.009	**	16.4	B	FORT	91	R18	P	NO	3	YES	LISA, LINEAR SYSTEM ANALYSIS	IBM
360D-16.4.010	**	16.4	B	FORT	**	**	P	NO	0	YES	SYNTH1, REACTIVE NETWORK, POLES & ZEROS	IBM
360D-16.5.001	**	16.5	B	FORT	**	**	P	NO	0	YES	HELICAL SPRING DESIGN	IBM
360D-16.6.001	**	16.6	B	ASEM	**	**	P	NO	0	YES	SEISMIC DATA PROCESSING	IBM
360D-16.8.002	**	16.8	B	FORT	**	**	P	NO	0	YES	FREQ. RESPONSE FROM STEP DATA	IBM
360D-17.1.001	**	17.1	B	FORT	**	**	P	NO	0	YES	2 ELECT. MICROPROBE ANAL. PGM.	IBM
360D-17.7.001	**	17.1	B	FORT	**	**	C	NO	0	YES	UCONIC, SPACE ORBIT CALC.	IBM
360D-17.2.001	**	17.2	B	FORT	**	**	P	NO	0	YES	HGEOM, BUBBLE CHAMBER GEOM. DATA RECONSTR.	IBM
360D-17.2.002	**	17.2	B	FORT	**	**	P	NO	0	YES	GPIND, BUBBLE CHAMBER DATA ANALYSIS	IBM

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CCN PROGRAM INDEX - PART I.

IBM DISTRIBUTED PROGRAMS

LISTED BY CATEGORY NUMBER PAGE 17

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	RFL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360D-17.2.003	**	17.2	B	FORT	**	**	P	NO	0	YES	SQUAW, BUBBLE CHAMBER HYPOTHESIS TEST	IBM
360D-17.2.004	**	17.2	B	FURT	**	**	P	NO	0	YES	TVGP, BUBBLE CHAMBER TRK. RECONSTRUCT	IBM
360D-17.2.005	V 1, M 0	17.2	B	FORT	76	R14	P	NO	0	YES	SUMX, DATA SUMMARY & PRESENT.	IBM
360D-17.2.006	**	17.2	B	FORT	**	**	P	NO	0	YES	CERN SUMX, DATA SUMARIZATION	IBM
360D-17.2.007	**	17.2	B	FORT	**	**	P	NO	0	YES	GRING, BUBBLE CHAMBER EVENT ANALYSIS	IBM
360D-17.2.008	**	17.2	B	FORT	**	**	P	NO	0	YES	THRESH, BUBBLE CHAMBER EVENT GEOMETRY	IBM
360D-17.2.009	**	17.2	B	**	**	**	P	NO	0	YES	SUMX, ON-LINE FOR 2250	IBM
360D-17.4.001	**	17.4	B	FORT	**	**	P	NO	0	YES	STAMPEDE, EXPLOR. SURFACE & MAP TECH. DOS	IBM
360D-17.4.002	**	17.4	B	FORT	**	**	C	NO	0	YES	ELECTROMAG. SCATTER FROM SPHERE	IBM
360D-17.5.001	**	17.5	B	FORT	**	**	P	NO	0	YES	BIOLOGICAL REFLEX ANALYSIS	IBM
360D-19.3.001	**	19.3	B	FORT	**	**	P	NO	0	YES	SALES/ASSESSMENT RATIO ANALYSIS	IBM
360D-22.0.001	**	22.0	B	ASEM	**	**	P	NO	0	YES	STUDENT SCHEDULING SYSTEM	IBM
360D-23.1.003	**	23.1	B	FORT	**	**	P	NO	0	YES	2 STAGE, 2 DIM. TRIM PROBLEM	IBM
360A-CN-10X	V 4	23.4	B	ASEM	91	R20	P	YES	0	YES	APT NUMERICAL CONTROL	H20-0309
360D-25.0.004	**	25.0	B	PL/I	**	**	P	NO	0	YES	EQUIPMENT RECORD REPORT	IBM
360D-25.2.004	**	25.2	B	ASEM	**	**	P	NO	0	YES	UNIT CONTROL SYSTEM	IBM
360D-29.3.002	V 1, M 0	29.3	B	ASEM	**	**	P	NO	0	YES	VSP SCHEDULE PRODUCTION	IBM
360D-29.4.001	**	29.4	B	P, A	91	P18	P	NO	0	NO	TEXT 360, TEXT PROCESSING SYS.	IBM
360D-29.4.002	**	29.4	B	PL/I	**	**	P	NO	0	YES	EMPTY FREIGHT CAR ALLOCATION	IBM
360D-29.4.004	**	29.4	B	PL/I	**	**	P	NO	0	YES	INDEX PREPARATION FOR PUBLICATION	IBM
360A-CM-03X	V 3, M 1	40.0	B	FORT	91	R20	C	NO	4	YES	SCIENTIFIC SUB. PKG.	H20-0205

INDEX NUMBER	REV	CAT	CLS	LANG	CRU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
360A-CM-07X	V 1, M 1	40.0	B	PL/I	91	P20	C	NO	4	YES	SCIENTIFIC SUB. PKG. PL/I	H20-0586
360D-40.0.001	**	40.0	B	FORT	**	**	C	NO	0	YES	DFACT, DOUBLE PRECISION FACTORIAL SUBR.	IBM
360D-40.2.001	**	40.0	B	ASEM	**	**	C	NO	0	YES	COMPLEX * 16 FUNCTS, FOR FORTRAN	IBM
360D-40.1.001	**	40.1	B	ASEM	**	**	P	NO	0	YES	CONSOLE UTILITY CALC.	IBM
360D-40.4.001	**	40.4	B	ASEM	**	**	C	NO	0	YES	FLOATING POINT NUMBER EXPONENT MANIPUL.	IBM
360D-40.4.002	**	40.4	B	ASEM	**	**	C	NO	0	YES	MULTIPLE PRECISION ARITH. SUBRTNS.	IBM
360D-40.4.003	**	40.4	B	ASEM	**	**	C	NO	0	YES	MULTIPLE PREC. FLT. PT. ARITH. PKGE.	IBM
360D-42.0.001	V 1, M 0	42.0	B	FORT	**	**	P	NO	0	YES	BENSON-MENDELSON WORD ALGORITHM	IBM
360D-42.2.001	**	42.2	B	FORT	**	**	C	NO	0	YES	DETERMINE POLYNOMIAL ZEROS	IBM
360D-43.1.001	**	43.1	B	FORT	**	**	C	NO	0	YES	ANL D153S, 2 DIM. ROMBERG QUADRATURE	IBM
360D-43.1.002	**	43.1	B	FORT	**	**	P	NO	0	YES	DSL, SIMUL, PROCESS DYNAMICS	IBM
360D-43.1.003	**	43.1	B	ASEM	**	**	C	NO	0	YES	EVAL. EXPON. INTEG. 15 SIGN. DIGITS	IBM
360D-43.2.001	**	43.2	B	**	**	**	P	NO	0	YES	MIDAS, DIGITAL ANALOG SIMULATION	IBM
360D-43.2.002	**	43.2	B	FORT	**	**	P	NO	0	YES	INTEG. EQUAT. ALGR., ELECTROCARDIOLOGY	IBM
360A-CM-05X	**	45.1	B	FORT	75	R14	P	NO	0	NO	MATLAN, SYS, /360 MATRIX LANG.	H20-0564
360D-45.1.001	**	45.1	B	PL/I	91	R13	P	NO	0	YES	INVSOL, SOL. NON-HOMO. EQU.	IBM
360D-45.2.001	**	45.2	B	FORT	91	R13	C	NO	0	YES	EIGENRS, SOL. REAL SYMETRIC MATRIX	IBM
360D-99.0.002	**	99.0	B	ASEM	**	**	S	NO	0	YES	NARGS, DETERMINE # ARGS., SUBR. OR FUNC.	IBM
360D-99.0.003	**	99.0	B	COF	**	**	P	NO	0	YES	PRGM. SCHEDULING COMPLETION MGT.	IBM

COLUMN HEADINGS ARE DESCRIBED BELOW.

HEADING	MEANING	EXPLANATION	
INDEX NUMBER		UNIQUE SERIAL NUMBER IN THIS INDEX, SEE IBM FORM C20-1619.	
REV	REVISION	PROGRAM REVISION LEVEL.	
CAT	CATEGORY	CCN CATEGORY CODE USING IBM CLASSIFICATION SCHEME, STARTING ON PAGE X OF FORM C20-1619, OR SEE SECTION VI THIS INDEX.	
CLS	CLASS	SOURCE CLASS, A=CCN, B=IBM, SHARE, GE, ETC, C=UCLA, D=OTHER	
LANG	LANGUAGE	PROGRAM SOURCE LANGUAGE, F,FORT = FORTRAN; P = PL/I; M = MACHINE; A, ASSEM = ASSEMBLER; C, COB = COBOL.	
CPU		CENTRAL PROCESSING UNIT, SYSTEM/360 MODEL NUMBER.	
REL	RELEASE	OS/360 RELEASE UNDER WHICH PROGRAM LAST RUN, OR COMPILED.	
TYPE		PROGRAM TYPE, C = A CALLABLE SUBPROGRAM, P = A COMPLETE PROGRAM.	
5	SYS	SYSTEM	YES=SYSTEM MAINTENANCE CONTROL, NO=NOT SYSTEM MAINTENANCE
4	SUP	SUPPORT	CCN SUPPORT LEVEL, 0, 1, 2, 3, 4, 5, 6: 0: THE PROGRAM IS NOT RESIDENT IN ANY ON-LINE LIBRARY. A
3			
2			

HEADING

MEANING

EXPLANATION

COPY OF THE PROGRAM IS ARCHIVED IN THE CCN PROGRAM LIBRARY.

1: THE PROGRAM IS RESIDENT IN A LIBRARY MAINTAINED BY A USER

2: THE PROGRAM IS RESIDENT IN A CCN ON-LINE OR OFF-LINE
LIBRARY AND IS MAINTAINED BY A USER.

3: THE PROGRAM IS RESIDENT IN AN ON-LINE OR OFF-LINE

EDUCATIONAL LIBRARY. MAINTENANCE IS BY CCN OR BY THE

REQUESTOR, AS AGREED. SUCH A CLASS LIBRARY MAY DISAPPEAR AT
THE END OF THE SCHOOL TERM.

4: THE PROGRAM IS RESIDENT IN A CCN SYSTEM LIBRARY, ALL OR

A PORTION OF WHICH IS OFF-LINE, MINIMAL CCN RESOURCES ARE
USED FOR MAINTENANCE.

5: THE PROGRAM IS RESIDENT IN A CCN ON-LINE LIBRARY.

MINIMAL CCN RESOURCES ARE USED FOR MAINTENANCE.

6: THE PROGRAM IS SYSTEM RESIDENT IN A CCN ON-LINE LIBRARY.

HEADING

MEANING

EXPLANATION

IT MAY BE CONSIDERED AS PART OF THE 'CORE' SOFTWARE. ALL

AVAILABLE CCN RESOURCES ARE USED TO MAINTAIN THIS PROGRAM.

COPY

YES=SOURCE COPY AVAILABLE ON REQUEST, NO=NOT AVAILABLE.

NAME / DESCRIPTION

ABBREVIATED PROGRAM NAME AND/OR DESCRIPTION.

DOC

DOCUMENT

SOURCE OR IBM MANUAL NUMBER, NONE=DOCUMENTATION NOT NOW

AVAILABLE.

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THIS IS A PARTIAL LISTING OF PRE-OS/360 PROGRAMS DISTRIBUTED BY SHARE. ALL PROGRAMS UNLESS NOTED, OR WRITTEN IN BPS FORTRAN WILL REQUIRE EXTENSIVE CHANGES TO RUN ON THE 360 / 91. SEE SHARE DOCUMENTATION IN THE CCN CONSULTING ROOM.

PROGRAM LIBRARIAN SERVICES REQUEST (FORM CCN014) SHOULD BE USED TO REQUEST NEW PROGRAMS, DOCUMENTATION, SOURCE DECKS, SOURCE DATA SETS, OR CHANGES IN PROGRAM RESIDENCE STATES. FORMS ARE AVAILABLE IN THE CCN USER RELATIONS OFFICE.

A LISTING OF CATEGORY CODES WILL BE FOUND PRECEDING THE CCNPROGRAM INDEX.

INDEX NUMBER	REV	CAT	CLS	LANG	CFU	REL	TYPE	SYS	SUP	CCPY	NAME / DESCRIPTION	DOC
3456	**	00.0	B	F04	**	**	C	NO	0	YES	FION QUADRATURE SUBROUTINE	SHARE
3471	**	00.0	B	MAP	**	**	C	NO	0	YES	DISK AND FILE I/O ROUTINE	SHARE
3339	**	00.3	B	FAP	**	**	P	NO	0	YES	DURATION METERED BY TAPE WRITING	SHARE
3320	**	00.6	B	MAP	**	**	C	NO	0	YES	7040 PRODUCES 1 CONTOUR LINE OF A MAP	SHARE
3345	**	00.6	B	FAP	**	**	C	NO	0	YES	CARTESIAN PLOTTER	SHARE
3323	**	01.0	B	MAP	**	**	C	NO	0	YES	7040 RANDOM NUMBER GENERATOR	SHARE
3373	**	01.0	B	MAP	**	**	C	NO	0	YES	RETURN SUBROUTINE	SHARE
3321	**	01.4	B	MAP	**	**	C	NO	0	YES	7040 INTERNAL DATE ROUTINE	SHARE
3322	**	01.4	B	MAP	**	**	C	NO	0	YES	7040 INTERNAL TIMING ROUTINE	SHARE
3354	**	01.4	B	FAP	**	**	C	NO	0	YES	CHECKPOINT	SHARE
3421	**	03.0	B	MAP	**	**	P	NO	0	YES	7040 TERM, JOB AND SKIP TO NEXT \$JOB CARD	SHARE
3499	**	03.2	B	MAP	**	**	P	NO	0	YES	MODIFICATION DECK TO FORT, COMPILER	SHARE
3422	**	03.3	B	MAP	**	**	C	NO	0	YES	7040 INTERVAL TIMER READOUT	SHARE
3520	**	03.4	B	MAP	**	**	P	NO	0	YES	PUNCH MAP DECK FOR FORTRAN COMPILED PROG	SHARE
3273	**	03.8	B	MAP	**	**	C	NO	0	YES	SORT ROUTINE	SHARE
3386	**	03.8	B	MAP	**	**	P	NO	0	YES	COBOL RECORD DESCRIPTION ENTRY GENERATOR	SHARE
3387	**	04.0	B	MAP	**	**	P	NO	0	YES	7040 FLOATING POINT TRAP ANALYSER	SHARE
3493	**	04.0	B	**	**	**	P	NO	0	YES	SIMSCRIPT SAMPLE PROGR.	SHARE
3515	**	04.1	B	MAP	**	**	P	NO	0	YES	DUMP PROGRAM	NONE
3437	**	04.2	B	MAP	**	**	P	NO	0	YES	7040 TRACE	SHARE
3503	**	04.2	B	MAP	**	**	P	NO	0	YES	WHERMI, IN-CORE PROGRAM LOCATOR	SHARE

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3514	**	04.2	B	MAP	**	**	C	NO	0	YES	DEBUG, TRACE REGISTERS & SUBPRG.	SHARE
3517	**	04.2	B	MAP	**	**	P	NO	0	YES	TRACES ROUTINES BACK TO MAIN PROGRAM	SHARE
3265	**	06.0	B	VEC	**	**	P	NO	0	YES	RADIATION CONFIGURATION FACTORS	SHARE
3268	**	06.0	B	FD2	**	**	P	NO	0	YES	7094 PROG. FOR PERSPECTIVE DRAWING	SHARE
3275	**	06.0	B	MAP	**	**	P	NO	0	YES	BCD TO COLLATOR CONVERSION	SHARE
3276	**	06.0	B	MAP	**	**	P	NO	0	YES	DUMP UNDER IBJOB	SHARE
3277	**	06.0	B	FAP	**	**	P	NO	0	YES	DUMP MEMORY PARTS UNDER IOCS	SHARE
3263	**	06.1	B	MAP	**	**	P	NO	0	YES	LOGIC. & ALGEB. CORE SORT	SHARE
3280	**	06.1	B	MAP	**	**	P	NO	0	YES	GETSRT SUBROUTINE	SHARE
3324	**	06.1	B	MAP	**	**	C	NO	0	YES	7040 SORT & MERGE, NUMERICAL	SHARE
3343	**	06.1	B	MAP	**	**	C	NO	0	YES	7040 TABULAR SORT AND HISTOGRAM	SHARE
3376	**	06.1	B	MAP	**	**	P	NO	0	YES	709 MAX-MIN SEARCH	SHARE
3457	**	06.1	B	FD2	**	**	P	NO	0	YES	SORT, SORTING ROUTINE	SHARE
3274	**	06.2	B	MAP	**	**	P	NO	0	YES	GET AND FILE ROUTINE	SHARE
3283	**	06.3	B	MAP	**	**	P	NO	0	YES	7040 FORMAT-LESS INPUT	SHARE
3444	**	06.3	B	FAP	**	**	C	NO	0	YES	7090 / 94 I-O SUBROUTINE PACKAGE	SHARE
3458	0.1	06.3	B	MAP	**	**	P	NO	0	YES	SHARE DISTRIBUTION PROCESSOR	SHARE
3459	0.1	06.3	B	FAP	**	**	P	NO	0	YES	SHARE REFORMAT DISTRIBUTION TAPE TO SPIF.	SHARE
3460	0.1	06.3	B	MAP	**	**	C	NO	0	YES	I/O PACKAGE FOR IBJOB SHARE	SHARE
3461	**	06.3	B	FAP	**	**	P	NO	0	YES	I/O PKGE. FOR SHARE POST-PROCES., FD2, V.3	SHARE
3462	**	06.3	B	FAP	**	**	C	NO	0	YES	I/O PKGE. FOR SHARE POST-PROCES., FD2, V.2	SHARE

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CCN PROGRAM INDEX - PART V,

SHARE DISTRIBUTED PROGRAMS

LISTED BY CATEGORY NUMBER

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INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3463	**	06.3	B	FAP	**	**	C	NO	0	YES	TAPE I/O, GENERAL PURPOSE TAPE I/O PKGE.	SHARE
3464	**	06.3	B	FAP	**	**	C	NO	0	YES	704 I/O PKGE. FOR SHARE DIST. PROCESSOR	SHARE
3470	**	06.3	B	AUT	**	**	P	NO	0	YES	REFORMAT SHARE SDA TAPE TO PERIPH. FORMAT	SHARE
3396	**	06.4	B	COB	**	**	P	NO	0	YES	DETAB-65 PRE-PROCESSOR	SHARE
3413	**	06.4	B	MAP	**	**	C	NO	0	YES	7040 BCD DATE SUBROUTINE	SHARE
3267	**	06.5	B	FO2	**	**	P	NO	0	YES	CAL-COMP PLOT	SHARE
3285	**	06.5	B	FO2	**	**	P	NO	0	YES	3-J, 6-J, 9-J, SYMBOLS	SHARE
3340	**	06.5	B	COB	**	**	P	NO	0	YES	SDA ABS. CARD FORMAT CONVERTER	SHARE
3377	**	06.5	B	MAP	**	**	P	NO	0	YES	QUADPLE, PRECISION ARITHMETIC	SHARE
3373	**	06.5	B	FO4	**	**	C	NO	0	YES	DCS PLOTTING SCALING	SHARE
3442	**	06.5	B	MAP	**	**	P	NO	0	YES	7040 FORTRAN READ / WRITE FOR BINARY ARRAY	SHARE
3451	**	06.5	B	FAP	**	**	P	NO	0	YES	QUADRUPLE FLOATING POINT ARITHMETIC PACKAGE	SHARE
3452	**	06.5	B	FAP	**	**	P	NO	0	YES	105 BIT BIN FLOAT TO 34 DIGIT DEC. CONV.	SHARE
3453	**	06.5	B	FAP	**	**	P	NO	0	YES	34 DIGIT DEC. TO 105 BIT BIN FLOAT CONV.	SHARE
3281	**	06.6	B	FO4	**	**	C	NO	0	YES	7040 BCD CHARACTER MANIPULATION	SHARE
3406	0 2	06.6	B	FO4	**	**	P	NO	0	YES	PREPARE CONCORDANCE FROM TEXT	SHARE
3420	**	06.6	B	MAP	**	**	C	NO	0	YES	7040 COBOL 'OCCURS' SUBROUTINE	SHARE
3434	**	06.6	B	FAP	**	**	P	NO	0	YES	MONITOR LIBRARY SYSTEM	SHARE
3435	**	06.6	B	MAP	**	**	C	NO	0	YES	7040 SUBROUTINE CALLEP	SHARE
3346	**	06.7	B	FAP	**	**	P	NO	0	YES	PREPARE AND EXECUTE LIBRARY TAPE OF FMS	SHARE
3348	**	06.7	B	COB	**	**	P	NO	0	YES	SHORT FORM RECORD DESCRIPTION GENERATOR	SHARE

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INDEX NUMBER	REV	CAT	CLS	LANG	CRU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3330	**	07.0	B	FAP	**	**	C	NO	0	YES	FORT. I/O LIBRARY SUBR.	SHARE
3379	**	08.0	B	MAP	**	**	P	NO	0	YES	SIMPLE OUTPUT FORMAT TRANSLATOR	SHARE
3381	**	08.0	B	MAP	**	**	P	NO	0	YES	LOS ALAMOS ABORTER AND MESSAGE PRINTER	SHARE
3519	**	08.0	B	MAP	**	**	C	NO	0	YES	CLOSE FILE, NO REWIND, NO FILE MARK	SHARE
3515	**	08.4	B	MAP	**	**	C	NO	0	YES	OUTPUT HEADING SUBROUTINE	SHARE
3518	**	08.4	B	MAP	**	**	P	NO	0	YES	OUTPUT PAGE EDITOR	SHARE
3488	**	08.6	B	FO4	**	**	C	NO	0	YES	MAP SECTION, CIRCLE OVERLAP	SHARE
3494	**	08.6	B	FO4	**	**	P	NO	0	YES	PLOT CURVES ON LINE PRINTER	SHARE
3419	**	08.7	B	MAP	**	**	P	NO	0	YES	7040 / 44 TYPEWRITER CONSOLE, FILE ASSIGNS.	SHARE
3423	**	08.7	B	MAP	**	**	C	NO	0	YES	7040 CONSOLE TYPEWRITER ROUTINE	SHARE
3358	**	11.1	B	DSL	**	**	P	NO	0	YES	DSL/90 SIMULATION LANGUAGE, EXAMPLE	SHARE
3366	**	11.1	B	DSL	**	**	P	NO	0	YES	DSL / 90 DIGITAL SIMULATION LANGUAGE	SHARE
3390	**	11.2	B	MAP	**	**	P	NO	0	YES	CAPD PUNCH ON-LINE SIMULATOR	SHARE
3427	**	11.2	B	MAP	**	**	P	NO	0	YES	BCD CARD PUNCH + ON-LINE PUNCH STMENT. RETN	SHARE
3389	**	12.0	B	MAP	**	**	P	NO	0	YES	FACIL-FORT COMPATIBLE INTERFACE	SHARE
3336	**	12.1	B	FAP	**	**	C	NO	0	YES	CONVERT BIN. NOS. TO BCD AND EDIT	SHARE
3338	**	12.1	B	FAP	**	**	C	NO	0	YES	709 CONVERT. BIN. FRACTION TO BCD	SHARE
3481	**	12.1	B	FO4	**	**	C	NO	0	YES	SINGLE PREC. TO MULT. PREC. CONV.	SHARE
3482	**	12.1	B	FO4	**	**	C	NO	0	YES	MULTIPLE PREC. TO SINGLE PREC. CONV.	SHARE
3509	**	12.1	B	FO4	**	**	C	NO	0	YES	INT. TO MULT. PREC. CONVERSION	SHARE
3511	**	12.1	B	FO4	**	**	C	NO	0	YES	INT. TO MULT. PREC. SUBROUTINE	SHARE

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3512	**	12.1	B	F04	**	**	C	NO	0	YES	MULT. PREC. TO INT. CONVERSION	SHARE
3526	**	12.1	B	F04	**	**	C	NO	0	YES	MATRIX, CONVERT SINGLE TO MULT. PREC.	SHARE
3350	**	12.2	B	COB	**	**	P	NO	0	YES	TRANSLATOR, COBOL, COMMERCIAL TO 7090/94	SHARE
3375	**	12.2	B	COB	**	**	P	NO	0	YES	ABBREVIATED COBOL EXPANDER	SHARE
3356	**	13.0	B	F04	**	**	P	NO	0	YES	SURVIVOP CURVE SMOOTHING	SHARE
3501	**	13.3	B	M&F	**	**	P	NO	0	YES	SIMILARITY CLUSTERING PROGRAM	SHARE
3492	**	13.6	B	F04	**	**	P	NO	0	YES	EST. NON-LIN. PARAM. CONSTR. REGESS.	SHARE
3493	**	13.6	B	F04	**	**	P	NO	0	YES	EST. NON-LIN. PARAM. IN REGRESSION	SHARE
3537	**	13.6	B	MAP	**	**	P	NO	0	YES	REGRESSION ANALYSIS	NONE
3337	**	13.7	B	F04	**	**	P	NO	0	YES	GENERAL FACTORIAL ANOVA	SHARE
3438	**	13.7	B	F04	**	**	C	NO	0	YES	UNBAL. NESTED ANALYS. OF VARIANCE SUB.	SHARE
3439	**	13.7	B	F04	**	**	P	NO	0	YES	UNBAL. NESTED ANALYS. OF VARIANCE, MAIN	SHARE
3355	**	15.0	B	F04	**	**	P	NO	0	YES	HANPOWER FORCE STRUCTURE MODELING	SHARE
3384	**	15.2	B	F04	**	**	C	NO	0	YES	7040 SIMPLEX LINEAR PROGRAMMING SUBROUTINE	SHARE
3384	0 2	15.2	B	F04	91	R17	C	NO	0	YES	SIMPLEX LINEAR PROGRAMMING SUBROUTINE	SHARE
3359	**	15.4	B	FAP	**	**	P	NO	0	YES	TRANSPORTATION PROBLEM, FEW SHIPPERS	SHARE
3391	**	15.6	B	F04	**	**	P	NO	0	YES	COMPUTERIZED FACILITIES ALLOCATION TECHN.	SHARE
3361	**	15.0	B	F02	**	**	P	NO	0	YES	MIXTURES, EQUAT. OF STATE, FUGAC.	SHARE
3450	0 2	16.3	B	F0	**	**	P	NO	0	YES	SHARE 300 ABSTPACT AND CATALOG PROCESSOR	SHARE
3262	**	16.4	B	F04	**	**	P	NO	0	YES	D & DD DIFFERENTIAL FILTER GENERATOR	SHARE
3449	**	16.4	B	FAP	**	**	P	NO	0	YES	SI DIFF. DIODE BKDN VOLT. BY TOWNS, =NEWT. =SIM	SHARE

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INDEX NUMBER	REV	CAT	CLS	LANG	CRU	REL	T.YPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3476	**	16.4	B	FO4	**	**	P	NO	0	YES	QUANT. ANALYS W/ELECTRON PROBE MICROANALZE	SHARE
3536	**	16.4	B	FO3	**	**	P	NO	0	YES	OUT OF KILTER NETWORK ROUTINE	NONE
3536	0 2	16.4	B	FO3	91	R17	P	NO	0	YES	OUT OF KILTER NETWORK ROUTINE	NONE
3349	**	16.5	B	FO4	**	**	P	NO	0	YES	ORFICE METER DIAMETER, CALCS.	SHARE
3426	**	16.5	B	FO4	**	**	P	NO	0	YES	DYNAMIC ANALYSIS, VISCOELASTIC IMPACT	SHARE
3428	**	16.5	B	FO4	**	**	P	NO	0	YES	FLOW IN RADIAL TURBINE, QUASI-ORTHOGONALS	SHARE
3269	**	17.0	B	FO2	**	**	P	NO	0	YES	CRYST. ACENTRIC STAT. TEST. CAST	SHARE
3374	**	17.0	B	FO4	**	**	P	NO	0	YES	INNER PLANETS EPHEMERIDES CALC.	SHARE
3484	**	17.0	B	FO4	**	**	C	NO	0	YES	GRIDLINE SUBROUTINE, 10 UNITS / SIDE	SHARE
3286	**	17.1	B	FO2	**	**	C	NO	0	YES	SUBROUTINES FOR SPECTROSCOP. CALC.	SHARE
3352	**	17.2	B	FAP	**	**	P	NO	0	YES	X-RAY CRYSTAL INTENSITY TREATMENT	SHARE
3284	**	17.4	B	FAP	**	**	P	NO	0	YES	GEOGRAPHIC CONTINUITY	SHARE
3362	**	22.2	B	CO3	**	**	P	NO	0	YES	7040 / 44 CCBOL GENERATOR	SHARE
3529	**	40.0	B	FO4	**	**	C	NO	0	YES	MAX-MIN SUBROUTINE	NONE
3477	**	40.1	B	FO4	**	**	C	NO	0	YES	MULTIPLE PRECISION ADDITION	SHARE
3478	**	40.1	B	FO4	**	**	C	NO	0	YES	MULTIPLE PRECISION SUBTRACTION	SHARE
3479	**	40.1	B	FO4	**	**	C	NO	0	YES	MULTIPLE PRECISION MULTIPLICATION	SHARE
3480	**	40.1	B	FO4	**	**	C	NO	0	YES	MULTIPLE PRECISION DIVISION	SHARE
3534	**	40.3	B	MAP	**	**	C	NO	0	YES	COMPLEX FUNCTION	NONE
3408	**	41.1	B	FAP	**	**	P	NO	0	YES	DOUBLE PRECISION ARCSINE-ARCCOSINE, 1965	SHARE
3416	**	41.1	B	FAP	**	**	P	NO	0	YES	DOUBLE PRECISION TANGENT-COTANGENT, 1965	SHARE

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3417	**	41.1	B	FAP	**	**	C	NO	0	YES	MODIFIER FOR PROGRAM NO. 3416	SHARE
3508	**	41.1	B	F04	**	**	C	NO	0	YES	MULT. PREC. SIN, COS, TAN, COT	SHARE
3522	**	41.1	B	F04	**	**	C	NO	0	YES	MULT. PREC. ARCTAN, MULT. PREC. ARG.	SHARE
3410	**	41.2	B	FAP	**	**	P	NO	0	YES	DOUBLE PRECISION HYPERBOLIC TANGENT, 1965	SHARE
3411	**	41.2	B	FAP	**	**	P	NO	0	YES	DOUBLE PRECISION HYPERBOLIC SIN-COS, 1965	SHARE
3504	**	41.3	B	F04	**	**	C	NO	0	YES	MULT. PREC. EXPONENTIAL	SHARE
3505	**	41.3	B	F04	**	**	C	NO	0	YES	MULT. PREC. EXPON. W/ INT. EXPONENT	SHARE
3506	**	41.3	B	F04	**	**	C	NO	0	YES	MULT. PREC. LOG, MULT. PREC. ARG.	SHARE
3507	**	41.3	B	F04	**	**	C	NO	0	YES	MULT. PREC. EXPONENTIAL	SHARE
3531	**	41.3	B	F04	**	**	S	NO	0	YES	EXPONENTIAL SUBROUTINE	NONE
3283	**	41.4	B	MAP	**	**	C	NO	0	YES	KOGBETLIANTZ DPREC. SQ. ROOT.	SHARE
3447	**	41.4	B	F04	**	**	P	NO	0	YES	7040 RATIONAL APPROXIMATION, ONE DIMENSIONAL	SHARE
3510	**	41.4	B	F04	**	**	C	NO	0	YES	MULT. PREC. SQ. ROOT, MULT. PREC. ARG.	SHARE
3437	**	41.5	B	F04	**	**	C	NO	0	YES	POLYGON	SHARE
3270	**	42.0	B	F02	**	**	P	NO	0	YES	GLAD-GAUSS LORENTZ ABS. & DERIV. CURVES	SHARE
3341	**	42.0	B	F04	**	**	C	NO	0	YES	ROOT OF ARBITRARY BOUNDED FUNCTION, F(X)=0	SHARE
3367	**	42.0	B	F04	**	**	P	NO	0	YES	MAEHLY'S 2ND DIR. METHOD RATIONAL APPROX.	SHARE
3521	**	42.1	B	F04	**	**	C	NO	0	YES	SUBROUTINE SPFAC, FACTORS POLYNOMIAL	SHARE
3532	**	42.1	B	F04	**	**	P	NO	0	YES	POLYNOMIAL COEFFICIENTS	NONE
3314	**	42.2	B	MAP	**	**	C	NO	0	YES	7040 REAL OR COMPLEX ROOTS, POLYNOMIAL	SHARE
3315	**	42.2	B	MAP	**	**	C	NO	0	YES	7040 ROOTS OF POLYNOMIAL, BAIRSTOW'S METHOD	SHARE

INDEX NUMBER	REV.	CAT.	CLS.	LANG.	CRU.	REL.	T.Y.P.E.	S.Y.S.	SUP.	COPY	NAME / DESCRIPTION	DOC.
3400	**	42.2	B	F02	**	**	P	NO	0	YES	ROOTS, POLYNOMIAL EQUATIONS, COMPLEX COEF.	SHARE
3483	**	42.3	B	F04	**	**	P	NO	0	YES	FINITE DISCRETE FOURIER TRANSFORM	NONE
3305	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE BESSEL FUNCTIONS IO, KO	SHARE
3306	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE BESSEL FUNCTIONS IO, JO	SHARE
3307	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE BESEL FUNCTIONS I1, K1	SHARE
3308	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE BESEL FUNCTIONS I1, Y1	SHARE
3309	**	42.2	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE DILOGARITHM FUNCTION	SHARE
3310	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE LOG MODULUS OF GAMMA FUNC.	SHARE
3311	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE ERROR FUNCTION	SHARE
3312	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE EXPON. INTEGRAL	SHARE
3313	**	42.3	B	MAP	**	**	C	NO	0	YES	7040 EVALUATE INCOMPL. ELLIPTIC INTEGRAL	SHARE
3425	**	42.3	B	F02	**	**	P	NO	0	YES	HARMONIC ANALYSIS, COMPLEX FOURIER SERIES	SHARE
3327	**	42.3	B	F02	**	**	C	NO	0	YES	HANKEL FUNCTNS., ORDER 0,1, -PI TO PI	SHARE
3328	**	42.3	B	F02	**	**	C	NO	0	YES	HANKEL FUNCTNS., ORDER 0,1, ARB. ARG. Z	SHARE
3329	**	42.3	B	F02	**	**	C	NO	0	YES	DOUBLE PREC. BESEL FUNCT.	SHARE
3409	**	42.3	B	FAP	**	**	P	NO	0	YES	DOUBLE PRECISION, GAMMA FUNCTION, 1965	SHARE
3412	**	42.3	B	FAP	**	**	P	NO	0	YES	DOUBLE PRECISION COMPLEMENTED ERROR FUNCN.	SHARE
3413	**	42.3	B	FAP	**	**	P	NO	0	YES	DOUBLE PREC. INVERSE ERROR FUNCN., 1965	SHARE
3414	**	42.3	B	FAP	**	**	P	NO	0	YES	SING. PRECISION COMPLEMENTED ERROR FUNCN.	SHARE
3415	**	42.3	B	FAP	**	**	P	NO	0	YES	SINGLE PREC. INVERSE ERROR FUNCTION, 1965	SHARE
3465	**	42.3	B	FOB	**	**	P	NO	0	YES	BASIC FORT. FINITE COMPLEX FOURIER TRANSFORM	SHARE

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3466	**	42.3	B	FO4	**	**	C	NO	0	YES	FUNCTIONAL OPT. ROSENBECK'S DIRECT METHOD	SHARE
3271	0 1	42.4	B	FO4	**	**	C	NO	0	YES	NUMERICAL SOL. SIM. LINEAR EQUAT.	SHARE
3334	**	42.4	B	FO2	**	**	C	NO	0	YES	SOLUTION, NON-LINEAR SYS. EQUATS.	SHARE
3467	**	42.4	B	FO4	**	**	P	NO	0	YES	7040 SYS. NON-LIN. FOU. ORD. 1, CORE DATA	SHARE
3468	**	42.4	B	FO4	**	**	P	NO	0	YES	7040 SYS. NON-LIN. EQU. ORD 1, EXTR. DATA	SHARE
3404	**	42.4	B	FO4	**	**	P	NO	0	YES	SOLVE NON-LIN. SYST. EQUAT., ORDER 1, CORE	SHARE
3405	**	42.5	B	FO4	**	**	P	NO	0	YES	SOLVE NON-LIN. SYS. EQUAT., ORDER 1, EXTRN.	SHARE
3299	**	43.1	B	MAP	**	**	C	NO	0	YES	10 PT. GAUSS-LAGUERRE INTEGR.	SHARE
3325	**	43.1	B	MAP	**	**	C	NO	0	YES	7040 RUNGE-KUTTA TO TEN 1ST ORDER EQUATIONS	SHARE
3380	**	43.1	B	MAP	**	**	P	NO	0	YES	RUNGE-KUTTA, INTERVAL DETERMINING	SHARE
3490	**	43.2	B	FO4	**	**	P	NO	0	YES	SOLVE DIFFERENT. EQUATS.	SHARE
3282	**	44.0	B	FO4	**	**	C	NO	0	YES	7040 ORTHOG. POLYNOM. SURFACE FIT, 2 VAR.	SHARE
3291	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 INTEGRAT. ROUTINE, GAUSS TYPE	SHARE
3292	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 SIX POINT GAUSS INTEGRAT. ROUTINE	SHARE
3293	**	44.0	P	MAP	**	**	C	NO	0	YES	7040 TEN POINT GAUSS INTEGRAT. ROUTINE	SHARE
3294	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 FOURTEEN POINT GAUSS INTEGRAT. ROUTINE	SHARE
3295	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 FOURTEEN POINT GAUSS INTEGRAT. ROUTINE	SHARE
3296	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 TEN POINT GAUSS-CHEBYSHEV INTEGRAT.	SHARE
3297	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 FOURTEEN POINT GAUSS-CHEBYSHEV INTEGR.	SHARE
3298	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 SIX POINT GAUSS-LAGUERRE INTEGRAT.	SHARE
3300	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 14 POINT GAUSS-LAGUERRE INTEGRAT.	SHARE

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CCN PROGRAM INDEX - PART V,

SHARE DISTRIBUTED PROGRAMS

INDEX NUMBER	REV	CAT	CLS	LANG	CRU	REL	T.YPE	SYS	SUP	COPY	NAME / DESCRIPTION	
3301	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 6 POINT GAUSS-HERMITE INTEGR.	
3302	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 10 POINT GAUSS-HERMITE INTEGRAT.	
3303	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 14 POINT GAUSS-HERMITE INTEGRAT.	SHARE
3304	**	44.0	B	MAP	**	**	C	NO	0	YES	7040 SUBROUTINE FOR 3296,3297,3298	SHARE
3333	**	44.0	B	FO4	**	**	C	NO	0	YES	CHEBYSHEV MINIMAX APPROX.	SHARE
3289	**	44.2	B	FO2	**	**	P	NO	0	YES	7090 POLYNOMIAL LEAST SQUARE FIT	SHARE
3332	**	44.2	B	FO4	**	**	P	NO	0	YES	POLY. ROOTS BY NEWTON, MULLER	SHARE
3363	**	44.2	B	FO4	**	**	P	NO	0	YES	LEAST SQUARE FIT WITH RESTRAINT	SHARE
3372	**	44.2	B	FO4	**	**	P	NO	0	YES	POLYNOMIAL LEAST SQUARE APPROX.	SHARE
3432	**	44.2	B	MAP	**	**	P	NO	0	YES	LEAST SQUARES ITERATION	SHARE
3433	**	44.2	B	FO2	**	**	P	NO	0	YES	TWO STAGE, TWO DIMENSIONAL TRIM	SHARE
3440	**	44.2	B	MAP	**	**	P	NO	0	YES	LEAST SQUARE ITERATION	SHARE
3443	**	44.2	B	FO4	**	**	C	NO	0	YES	7040 TRANSITION MATRIX CALCULATOR	SHARE
3446	**	44.2	B	FO4	**	**	P	NO	0	YES	7040 BIVARIATE ORTHOGONAL POLYNOMIAL DATA F	SHARE
3455	**	44.2	B	FO2	**	**	P	NO	0	YES	2 & 3 STAGE, LEAST SQUARES EST.	SHARE
3497	**	44.2	B	FO4	**	**	P	NO	0	YES	LINEAR LEAST SQ, CURVE FIT	SHARE
3502	**	44.2	B	FO4	**	**	P	NO	0	YES	CURVE FITTING	SHARE
3541	**	44.2	B	FO2	**	**	P	NO	0	YES	PARABOLIC FIT	NONE
3382	**	45.0	B	FO2	**	**	C	NO	0	YES	TRI-DIAGONAL MATRIX SUBROUTINE	SHARE
3316	**	45.1	B	MAP	**	**	C	NO	0	YES	7040 MATRIX INVERTER, PIVOTAL METHOD	SHARE
3317	**	45.1	B	MAP	**	**	C	NO	0	YES	7040 MATRIX INVERTER, SYM. POS. DEF.	SHARE

INDEX NUMBER	REV	CAT	CLS	LANG	CPU	REL	TYPE	SYS	SUP	COPY	NAME / DESCRIPTION	DOC
3525	**	45.1	B	F04	**	**	C	NO	0	YES	MATRIX MULTIPLY, MULT. PREC.	SHARE
3523	**	45.1	B	F04	**	**	C	NO	0	YES	MATRIX INV., MULT. PREC. FORM.	SHARE
3527	**	45.1	B	F04	**	**	C	NO	0	YES	SUBROUTINE MXPR, MATRIX PR.	NONE
3006	0 2	45.2	B	F04	40	R10	C	NO	0	YES	EIGENVALUES BY QR TRSFPM.	SHARE
3318	**	45.2	B	MAP	**	**	C	NO	0	YES	7040 MATRIX-EIGENVALUES, RUTISHAUSE-S.ACL.	SHARE
3319	**	45.2	B	MAP	**	**	C	NO	0	YES	7040 MATRIX, EIGENVALUES, SYMETRIC	SHARE
3368	**	45.2	B	MAP	**	**	P	NO	0	YES	EIGENVALUES AND VECTORS FOR HERMETIAN MATRI	SHARE
3385	**	45.2	B	C05	**	**	P	NO	0	YES	EIGENVALUES AND EIGENVECTORS OF REAL MATRIX	SHARE
3371	**	45.2	B	F04	**	**	C	NO	0	YES	TRANSFORM SUBROUTINE	SHARE
3441	**	45.2	B	F04	**	**	C	NO	0	YES	ARBITRARY MATRIX EIGENSYSTEM SOLVER	SHARE
3513	**	45.3	B	F04	**	**	C	NO	0	YES	MATRIX, 2 BODY, PART. PERT. DERIV.	SHARE
3524	**	45.3	B	F04	**	**	C	NO	0	YES	MATRIX, DETERMINANT, MULT. PREC.	SHARE
3473	**	45.4	B	MAP	**	**	P	NO	0	YES	SOLUTION, SIMULTANEOUS LINEAR EQUATIONS	SHARE
3528	**	.	B	F04	**	**	C	NO	0	YES	SUBROUTINE MXMNP	NONE
3530	**	.	B	F04	**	**	C	NO	0	YES	SUBROUTINE ADAMS, SOLUTION OF DERIVATIVES	NONE
3540	**	.	B	F04	**	**	P	NO	0	YES	TWO POINT BOUNDARY VALUE PROGRAM	NONE

COLUMN HEADINGS ARE DESCRIBED BELOW.

HEADING MEANING EXPLANATION

INDEX NUMBER UNIQUE SERIAL NUMBER IN THIS INDEX, SEE IBM FORM C20-1619.

05/16/73

HEADING	MEANING	EXPLANATION
REV	REVISION	PROGRAM REVISION LEVEL.
CAT	CATEGORY	CCN CATEGORY CODE USING IBM CLASSIFICATION SCHEME, STARTING ON PAGE X OF FORM C20-1619, OR SEE SECTION VI THIS INDEX.
CLS	CLASS	SOURCE CLASS, A=CCN, B=IBM, SHARE, GE, ETC, C=UCLA, D=OTHER
LANG	LANGUAGE	PROGRAM SOURCE LANGUAGE, F,FORT = FORTRAN; P = PL/I; M = MACHINE; A, ASSEM = ASSEMBLER; C, COB = COBOL.
CPU		CENTRAL PROCESSING UNIT, SYSTEM/360 MODEL NUMBER.
REL	RELEASE	OS/360 RELEASE UNDER WHICH PROGRAM LAST RUN, OR COMPILED.
TYPE		PROGRAM TYPE, C = A CALLABLE SUBPROGRAM, P = A COMPLETE PROGRAM.
SYS	SYSTEM	YES=SYSTEM MAINTENANCE CONTROL, NO=NOT SYSTEM MAINTENANCE
SUP	SUPPORT	CCN SUPPORT LEVEL, 0, 1, 2, 3, 4, 5, 6: 0: THE PROGRAM IS NOT RESIDENT IN ANY ON-LINE LIBRARY. A COPY OF THE PROGRAM IS ARCHIVED IN THE CCN PROGRAM LIBRARY.

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