PROGRAM AVAILABILITY LIST

9-SERIES
KWIC INDEX

KEY	TITLE	CAT.NO	CL
'8 VECTOR' PLOTTING PACKAGE...PLOT		890330	83
AC...CIRCUIT DESIGN ANALYSIS - CIRC-		890318	83
AC-DC CIRCUIT ANALYSIS COMPILER...		890245	83
ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH..		860783	83
ACCEPT TEST PROG.FOR NASA HOUSTON LEM...		860790	83
ACCEPT. TESTS FOR NORTH AMERICAN...SPECIAL		860773	83
ACCEPTANCE PROG. FOR DATA COMMUNICATION...		851584	83
ACCEPTANCE TEST FOR G.D./CONVAIR...SPECIAL		851620	83
ACCEPTANCE TEST...CECIS SPECIAL		860770	83
ACCESS DIAGNOSTIC PROGRAM...MEMORY		870001	83
ACCURACY TEST FOR GD/C ATS...ANALOG		851617	83
ACSDX...ARCSINE,ARCCOSINE-ASNX,ACSX,ASNDC,		860677	83
ACSX,ASNDC,ACSDX...ARCSINE,ARCCOSINE-ASNX,		860677	83
ADAMS-MOULTON DIFF. EQUATIONS...HYBRID		860685	83
ADAMS-MOULTON DIFFERENTIAL EQUATIONS...		860615	83
ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI..		860690	83
ADAPT COMPILER...		850754	83
ADD-ON)...EXT.I/O TEST (NAV.TOR.STA.SYS.,		851299	83
ADDITION (RMADD)...REAL MATRIX		890197	83
ADDITION OR SUBTRACTION...POLYNOMIAL		890161	83
ADDITION-CMADD...COMPLEX MATRIX		860656	83
ADDITION-RMADD...REAL MATRIX		860651	83
ADDRESS ROUTINE...EFFADR -EFFECTIVE		851595	83
ADDRESS TEST...MEMORY		870006	83
ADDRESSING TEST...930 BIG MEMORY		851052	83
AEROSPACE CORP....HYBRID EXEC. LIB. FOR		851064	83
AID)...UTILITY AND DEBUG PACKAGE (		850688	83
AID)...UTILITY AND DEBUG PACKAGE (		860611	83
AIRPLANE LAT-DIR TIME HISTORY...		890284	83
ALGOL COMMON SOFTWARE PACKAGE (COVER)...		850330	83
ALGOL 60 BASIC 4K SYSTEM (COVER)...920/930		850970	83
ALGOL 60 BASIC 4K SYSTEM...910/925		850816	83
ALGOL 60 EXT'D UNBUF LINE PRT. LIB ROUT...		850690	83
ALPHAXIS PLOTTING ROUTINE...		890380	83
AMERICAN AVIATION HYBRID EXECUTIVE...NORTH		860798	83
AMERICAN HYBRID INTERFACE TEST...NORTH		860797	83
AMERICAN...SPECIAL ACCEPT. TESTS FOR NORTH		860773	83
ANALOG ACCURACY TEST FOR GD/C ATS...		851617	83
ANALOG COMPARISON TEST...		850739	83
ANALOG EQUIPMENT DEMONSTRATION...JPL TCP		851027	83
ANALOG INPUT AND STORE...SAMPLE DATA FROM		890292	83
ANALOG INPUTS...GAUSSIAN DISTRIBUTION TEST		850710	83
ANALOG TEST FOR G.D./CONVAIR...		851618	83
ANALOG TEST PROGRAM...STANDARD		860776	83
ANALOG TEST PROGRAM...910/925 STANDARD		850901	83
ANALOG TOTAL CHECK...PATCH, PROGRAMMED		850741	83
ANALOG/NSC-II TEST FOR GD/C ATS...		851616	83
ANALYSIS (ECAP)...360 ELECTRONIC CIRCUIT		890669	83
ANALYSIS - CIRC-AC...CIRCUIT DESIGN		890318	83
ANALYSIS CIRC DC...CIRCUIT DESIGN		890283	83
ANALYSIS COMPILER...AC-DC CIRCUIT		890245	83
ANALYSIS...LINEAR REGRESSION		890217	83
ANALYSIS...PRINCIPAL AXES FACTOR		890203	83
ANALYTIC DIAGNOSTIC...92 RAD		851184	83
ANGLE & RANGE COMPUTE...SATFIX-SATELLITE		890664	83
APOCALYPTIC DIAGNOSTIC (RAD) 925/930...RAD		851129	83
APOCALYPTIC DIAGNOSTIC (RAD)...RAD		850725	83
APOCALYPTIC DIAGNOSTIC...RAD		860767	83
APS-100 SYSTEMS DIAGNOSTIC PROGRAM...JPL		851137	83
ARBITRARY FUNCTION...CURVE/SURFACE FIT		890191	83
ARCCOS FUNCTIONS...ARCSIN AND		890158	83
ARCCOSINE (DEGREES-RADIANS)...ARCSINE,		860676	83
ARCCOSINE-ASNX,ACSX,ASNDC,ACSDX...ARCSINE,		860677	83
ARCSIN AND ARCCOS FUNCTIONS...		890158	83
ARCSINE,ARCCOSINE (DEGREES-RADIANS)...		860676	83
ARCSINE,ARCCOSINE-ASNX,ACSX,ASNDC,ACSDX...		860677	83
ARCTAN - ATFE...FL. PT. EXTENDED PRECISION		860650	83
ARCTAN OF A - ATN...		860620	83
ARCTANGENT - ATF...FLOATING POINT		860629	83
ARCTANGENT - ATFC...FLOATING POINT COMPLEX		860634	83
ARCTANGENT ATNRX,ATNDX...9300		860671	83
ARCTANGENT POP-SELF FILLING...HIGH SPEED		850805	83
ARCTANGENT SUBR....ATAN-FLOATING-POINT		851151	83
ARCTANGENT-ATFR,ATFD...FL. PT.		860675	83
ARITH. PACKAGE...FLOATING POINT, COMPLEX		860630	83
ARITHMETIC FUNCTIONS...COMPLEX		890354	83
ARITHMETIC OPERATIONS...MATRIX PACKAGE FOR		890204	83
ARITHMETIC PACKAGE...EXTENDED PRECISION		860638	83
ARITHMETIC PKGE, FLPT92...FLOATING POINT		851597	83
ARM-DISARM FEATURE TEST PROGRA...INTERRUPT		860769	83
ARM/DISARM FEATURE CHECKOUT...		850721	83
ARRAY...FORTRAN SEARCH		890247	83
ARRAYS PROGRAM FOR NAVAL TORPEDO STATION..		851579	83
ASGNT.+P.T.UPDATING ROUTINES...SEQ. NUMBER		850687	83
ASNDC,ACSDX...ARCSINE,ARCCOSINE-ASNX,ACSX,		860677	83
ASNX,ACSX,ASNDC,ACSDX...ARCSINE,ARCCOSINE-		860677	83
ASSEMB. COMMON SOFTWARE PKG...META-SYMBOL		850065	83
ASSEMBLER (COVER)...SYMBOL		861083	83
ASSEMBLER COMMON SOFTWARE PACKAGE...SYMBOL		850040	83
ASSEMBLER...CONVERSATIONAL FUNCTIONAL		890528	83
ASSEMBLER-COVER...META-SYMBOL		860075	83
ASSEMBLY PROGRAM FOR 2K-910...COMPUTER		890244	83
AT RUN-TIME MOD....FORTRAN II FORMATS-		850963	83
ATAN-FLOATING-POINT ARCTANGENT SUBR....		851151	83
ATF...FLOATING POINT ARCTANGENT -		860629	83
ATFC...FLOATING POINT COMPLEX ARCTANGENT -		860634	83
ATFD...FL. PT. ARCTANGENT-ATFR,		860675	83
ATFE...FL. PT. EXTENDED PRECISION ARCTAN -		860650	83
ATFR,ATFD...FL. PT. ARCTANGENT-		860675	83
ATMOSPHERE ROUTINE...U.S.STANDARD EARTH		890280	83
ATMOSPHERE ROUTINE...U.S.STANDARD VENUS		890282	83
ATMOSPHERE ROUTINE(196...U.S.STANDARD MARS		890281	83
ATMOSPHERE...U.S.STANDARD EARTH MODEL		890279	83
ATN...ARCTAN OF A -		860620	83
ATNDX...9300 ARCTANGENT ATNRX,		860671	83
ATNRX,ATNDX...9300 ARCTANGENT		860671	83
ATS...ANALOG ACCURACY TEST FOR GD/C		851617	83
ATS...ANALOG/NSC-II TEST FOR GD/C		851616	83
ATS...DIGITAL I/O TEST FOR GD/C		851615	83
AUTO MONITOR PROGRAM...SAM9300-SELECTIVE		890882	83
AUTO TYPEWRITER TEST...SEMI		851135	83
AUTOMATIC DIAGNOSTIC...VERIFIER AND SEMI-		860662	83
AUTOMATIC INSTRUCTION DIAGNOSTIC...		860664	83
AUTOMATIC TYPEWRITER TEST (SATT)...SEMI-		850640	83
AUTOMATIC TYPEWRITER TEST (SATT)...SEMI-		860666	83
AVIATION HYBRID EXECUTIVE...NORTH AMERICAN		860798	83
AXES FACTOR ANALYSIS...PRINCIPAL		890203	83
A03...PLOT PACKAGE SPECIAL CHART		890234	83
B)SORT-BUSINESS LANGUAGE SORT ROUTINE...		890305	83
BAIRSTOW ROOTFINDER...		890169	83
BASIC CRITICAL PATH PROGRAM...		890278	83
BASIC PAPER TAPE LOADER...BINARY INPUT-		850644	83
BASIC RELOCATABLE LOADER...9300 PAPER TAPE		860605	83
BASIC SYMBOLIC MAGNETIC TAPE EDITOR...		850663	83
BASIC UTILITY PACKAGE 9300...		860607	83
BASIC UTILITY PACKAGE...92		851188	83
BASIC 2 CARD RELOCATABLE LOADER...		860720	83
BASIC 4K SYSTEM (COVER)...920/930 ALGOL 60		850970	83
BASIC 4K SYSTEM...910/925 ALGOL 60		850816	83
BASIC...940		870024	83
BCD CONVERSION OF NUMERIC DATA...		890355	83
BCD CONVERSION, XDS - UNIVAC - XDS...		890293	83
BCD CONVERTED BTDFX2,BTDFL2...BINARY TO		860640	83
BESSEL FUNCTION J0, J1 Y0, Y1...		890174	83
BESSEL FUNCTION KN(X),...		890176	83
BESSEL FUNCTION SUBROUTINE...		090178	83
BESSEL FUNCTION-FIRST KIND, ORDER ZERO...		890177	83
BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0,K1..		890179	83
BIG MEMORY ADDRESSING TEST...930		851052	83
BIG MEMORY DIAGNOSTIC...		860696	83
BIN TO DEC POP-SELF F...HIGH SPEED 4 DIGIT		850803	83
BISECTION...ROOTBIS, ROOTFINDING BY		890171	83
BIT HANDLING & I/O...FORTRAN EXTENDER LIB.		890310	83
BIT OF A WORD...SET OR DETECT ITH		890264	83
BIT ORIENTED FUNCTION & SUBROUTINE...WORD/		890332	83
BIT, AND CHARACTER MANIPULATION...LOGICAL,		890288	83
BLANK PAPER TAPE LEADER GENERATOR...		890223	83
BLOCKED INPUT FROM MAG. TAPE...READ		890220	83
BLOWUP...PLOTTER SUBROUTINE		890344	83
BOEING FAULT TREE TEST PROGRAM...		860778	83
BOEING RANDOM NUM. GEN. TEST PROGRAM...		860777	83
BOOLIAN MATRIX (FLAG PACKING)...		890199	83
BOOTSTRAP + GENERATOR...BINARY PAPER TAPE		850834	83
BOOTSTRAP FOR DRUM...LINK 0		850707	83
BOOTSTRAP GENERATOR FOR RAD MONARCH...		850023	83
BOOTSTRAP LOADER...BINARY PAPER TAPE		851161	83
BOOTSTRAP...BINARY PAPER TAPE RELOCATING		851160	83
BOOTSTRAP...BINARY VERIFY -		850627	83
BOOTSTRAP...SELECTIVE MEMORY CLEAR -		850625	83
BOOTSTRAP...SYMBOL		860803	83
BOX...MUSIC		890307	83
BPI DIAGNOSTIC TEST FOR XDS 92...INT, BPO,		851175	83
BPO, BPI DIAGNOSTIC TEST FOR XDS 92...INT,		851175	83
BRAIN RESEARCH...ACCEPT TEST PROG FOR UCLA		860783	83
BTDFL1...BINARY TO DECIMAL CONVERSION-		860639	83
BTDFL2...BINARY TO BCD CONVERTED BTDFX2,		860640	83
BTDFX2,BTDFL2...BINARY TO BCD CONVERTED		860640	83
BUF. LINE PRINTER MOD....910 SYMBOL 4		851599	83
BUF. LINE PRINTER MOD...920/910 SYMBOL 4		851609	83
BUF. LINE PRINTER MOD...920 SYMBOL 4		851605	83
BUF. PRINTER VERSION...920/930 SYMBOL 8		851611	83
BUF...42KC MAG TAPE SYS EXERCISER, Y		850682	83
BUFFER CHECKOUT PROGRAM...COMMUNICATION		851585	83
BUFFER...42KC MAGNETIC TAPE EXERCISER, W		850696	83
BUFFER...42KC MAGNETIC TAPE TEST PROGRAM Y		850681	83
BUFFER...42KC MAGNETIC TAPE TEST PROGRAM,W		850695	83
BUFFERED LINE PRINTER DIAG...9379/9171		860754	83
BUFFERED LINE PRINTER MEMORY DUMP...		850683	83
BUFFERED LINE PRINTER TEST PROGRAM...		850691	83
BUFFERED LINE PRINTER TRACE...		851012	83
BUFFERED LINE PRINTR...CARD OR MAG TAPE TO		850684	83
BUFFERED LINE PRT. DIAGNOSTIC 9379/9171...		851180	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
BUFFERED PRINT...PINT 920/930		850985	03
BUFFERED PRINT...XDS PINT 910-		850831	03
BUFFERED PRINTER DIAGNOSTIC...		850693	03
BUFFERED PRINTER MODIFICATION...FORTRAN		851015	03
BUFFERED PRT. MOD....910/925 FORTRAN II		850857	03
BUSINESS LANGUAGE LIBRARY-COVER...9300		860490	03
BUSINESS LANGUAGE SORT ROUTINE...B>SORT-		890305	03
B00 MONARCH...SYSGEN 2 -		890842	03
CAL...940		870023	03
CALCOMP PLOTTER ROUTINE...FORTRAN		890241	03
CALCOMP PLOTTER SUBROUTINE PACKAGE...		890237	03
CALCOMP PLOTTER TEST...		850699	03
CALCULATION...MATRIX INVERSION,DETERMINANT		890201	03
CALL LIBRARY...NAA DES-1 HYBRID		860799	03
CARD ABS. LOADER...BINARY INPUT-1		860721	03
CARD DUMP PUNCH PROGRAM...1-		851613	03
CARD FILL SIMULATOR (910/920)...		850651	03
CARD INPUT MOD....910/925 FORTRAN II		850835	03
CARD INPUT MOD....920/930 FORTRAN II		850990	03
CARD LOADER...BINARY INPUT ONE		850648	03
CARD LOADER...BINARY INPUT-TWO		850649	03
CARD LOADER...OCTAL INPUT-ONE		850653	03
CARD LOADER...OCTAL INPUT-1		860723	03
CARD MODIFICATION...FORTRAN-3 CONTINUATION		850986	03
CARD MODIFICATION...FORTRAN-9 CONTINUATION		850964	03
CARD OCTAL MEMORY DUMP (PRINTER)...ONE		860641	03
CARD OCTAL MEMORY DUMP (TYPEWRITER)...ONE		860722	03
CARD OR MAG TAPE TO BUFFERED LINE PRINTR..		850684	03
CARD OR MAG. TAPE UNIVERSAL LOADER...		860733	03
CARD OUTPUT MOD....910/925 FORTRAN II		850837	03
CARD OUTPUT MOD....920/930 FORTRAN II		850991	03
CARD PUNCH AND VERIFY PROGRAM...925/930		851108	03
CARD PUNCH TAPE MOD....910/925 FORTRAN II		850836	03
CARD PUNCH TEST PROG/MOD.9157(INTERLACE)..		850659	03
CARD PUNCH TEST PROGRAM -9157...		850658	03
CARD PUNCH TEST PROGRAM PACKAGE -9158...		850657	03
CARD PUNCH TEST PROGRAM...		860729	03
CARD PUNCH TEST PROGRAM...9158		850681	03
CARD PUNCH TEST PROGRAM...9158		851111	03
CARD PUNCH TEST PROGRAM...9158		860730	03
CARD READ HANDLER (CDR)...		851167	03
CARD READ SUBROUTINE (CDR)...		851109	03
CARD READ SUBROUTINE (216 SYS)...FORTRAN		890308	03
CARD READ SUBROUTINE - CDR...		860726	03
CARD READ/PUNCH TEST PROGRAM...1622		850717	03
CARD READER END OF FILE TEST...		890265	03
CARD READER TEST DECK PROGRAM...STANDARD		850660	03
CARD READER TEST PROGRAM...		851168	03
CARD READER TEST PROGRAM...		860727	03
CARD READER TEST PROGRAM...900 SERIES		850656	03
CARD READER TEST PROGRAM...925/930		851110	03
CARD READER/PUNCH DIAGNOSTIC PROGRAM...		890884	03
CARD RELOCATABLE LOADER...BASIC 2		860720	03
CARD RELOCATABLE LOADER...THREE		850652	03
CARD RESEQUENCE - DUPLICATOR (REPRO)...		890269	03
CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE...		890272	03
CARD/PAPER TAPE INPT MOD...920/930 FORT II		850989	03
CARDS MOD....910/925 FORTRAN II 3 CONTR		850813	03
CARDS MOD....910/925 FORTRAN II 9 CONTR		850814	03
CARDS TO P.T.COPY ROUTINE...FORTRAN SOURCE		850641	03
CARDS...BINARY DUMP PAPER TAPE OR		860608	03
CARDS...BINARY DUMP, PAPER TAPE OR		850643	03
CARRIAGE)...FORTRAN II TYPE SUBR. (LONG		850708	03
CATHODE RAY TUBE DISPLAY UNIT/S RE1...9185		850727	03
CATHODE RAYTUBE DISPLAY SYSTEM TEST...		860762	03
CATHODE-RAY TUBE DISPLAY TEST PROG....9158		850724	03
CDR...CARD READ SUBROUTINE -		860726	03
CDR)...CARD READ HANDLER (		851167	03
CDR)...CARD READ SUBROUTINE (		851109	03
CDRP...I/O HANDLER		860731	03
CDRP...MONARCH		851292	03
CECIS SPECIAL ACCEPTANCE TEST...		860770	03
CFE-1 AND MAG TAPE COMPATABILITY PROGRAM..		860772	03
CFE-1 DIAGNOSTIC...		860766	03
CFE-1 DIAGNOSTIC...925		851104	03
CFE-1 DIAGNOSTIC...930		851058	03
CHANNEL DISC TEST 3.0...UNIT 21 W		870038	03
CHANNEL DISC...UNIT 18 E		870040	03
CHANNEL DISC...UNIT 19 F		870041	03
CHANNEL RAD TEST 3.0...UNIT 12 E		870036	03
CHANNEL RAD TEST 3.0...UNIT 15 W		870037	03
CHANNEL TEST 925/930...DATA MULTIPLEX		851115	03
CHANNEL TEST...DATA MULTIPLEX		860744	03
CHAR MODE...MTE 3 MAG TAPE EXERCISOR 4		851056	03
CHAR MODE...MTE-3 MAG TAPE EXERCISOR, 3		851055	03
CHAR. MODE...MTE-3 MAG TAPE EXERCISER, 4		860764	03
CHARACTER MANIPULATION...LOGICAL,BIT, AND		890288	03
CHARACTER STREAM EDITING PROGRAM...EDIT,		890249	03
CHART A03...PLOT PACKAGE SPECIAL		890234	03
CHECK OUT PROG...GENERAL ELECTRIC MOL SYS.		860789	03
CHECK OUT PROGRAM...DOUGLAS MOL SYS.		860788	03
CHECK...PATCH, PROGRAMMED ANALOG TOTAL		850741	03
CHECKING DEMO...FORTRAN IV ERROR		860700	03
CHECKOUT PROGRAM...COMMUNICATION BUFFER		851585	03
CHECKOUT...ARM/DISARM FEATURE		850721	03
CIRC DC...CIRCUIT DESIGN ANALYSIS		890283	03
CIRC-AC...CIRCUIT DESIGN ANALYSIS -		890318	03
CIRCUIT ANALYSIS (ECAP)...300 ELECTRONIC		890869	03
CIRCUIT ANALYSIS COMPILER...AC-DC		890245	03
CIRCUIT DESIGN ANALYSIS - CIRC-AC...		890318	03
CIRCUIT DESIGN ANALYSIS CIRC DC...		890283	03
CIRCUIT DESIGN...D-T-L		890277	03
CLEAR - BOOTSTRAP...SELECTIVE MEMORY		850625	03
CLIMBING SUBROUTINE...CLIMB1 A HILL-		890167	03
CLIMB1 A HILL-CLIMBING SUBROUTINE...		890167	03
CLOCK TEST ROUTINE...REAL TIME		851060	03
CLOCK TEST ROUTINE...REAL TIME		860771	03
CLOCK TEST...REAL TIME		851187	03
CMADD...COMPLEX MATRIX ADDITION-		860656	03
CMINV...COMPLEX MATRIX INVERSION-		860657	03
CMMUL...COMPLEX MATRIX MULTIPLICATION-		860658	03
CMSUB...COMPLEX MATRIX SUBTRACTION-		860659	03
CMTRA...COMPLEX MATRIX TRANSPOSE-		860660	03
CO...940 TSS MONITOR,EXEC, AND PROCESSORS		870025	03
COEFFICIENTS PERIODIC FUNCTIONS...FOURIER		890188	03
COM GEAR TEST 3.0...UNIT 23 CTE 10/11		870039	03
COMMON SOFTWARE PACKAGE (COVER)...ALGOL		850330	03
COMMON SOFTWARE PACKAGE...FORTRAN II		850210	03
COMMON SOFTWARE PACKAGE...MONARCH		850000	03
COMMON SOFTWARE PACKAGE...MONARCH LIBRARY		850095	03
COMMON SOFTWARE PACKAGE...SYMBOL ASSEMBLER		850040	03
COMMON SOFTWARE PKG....920/930 FORTRAN-II		850315	03
COMMON SOFTWARE PKG....920/930 R/T FORTRAN		850480	03
COMMON SOFTWARE PKG...META-SYMBOL ASSEMB.		850065	03
COMMON SOFTWARE PKG...REAL-TIME FORTRAN		850400	03
COMMUNICATION BUFFER CHECKOUT PROGRAM...		851585	03
COMMUNICATION...ACCEPTANCE PROG. FOR DATA		851584	03
COMPARISON INST....SIMULATION OF SKIP ON		890258	03
COMPARISON TEST...ANALOG		850739	03
COMPATABILITY PROGRAM...CFE-1 AND MAG TAPE		860772	03
COMPILER (FC-1)...910/925 F-II		850211	03
COMPILER AND LIBRARIES...FORT IV		860035	03
COMPILER DUMP...900 SERIES FORTRAN II		850662	03
COMPILER MOD...920/930 RTF II INBUF. PRT.		851014	03
COMPILER UNBUF. PRT....920/930 FORTRAN II		851017	03
COMPILER...AC-DC CIRCUIT ANALYSIS		890245	03
COMPILER...ADAPT		850754	03
COMPILER...ON-LINE MATHEMATICAL		890287	03
COMPILER...XDS 92 FORTRAN IV		890320	03
COMPILER...900 SERIES FORTRAN IV		851583	03
COMPILER...940 FORTRAN II		870020	03
COMPLEX ARCTANGENT - ATFC...FLOATING POINT		860634	03
COMPLEX ARGUMENT)...POLYNOMIAL EVALUATION		860614	03
COMPLEX ARITH. PACKAGE...FLOATING POINT,		860630	03
COMPLEX ARITHMETIC FUNCTIONS...		890354	03
COMPLEX EXPONENTIAL-EXFC...FLOATING POINT		860631	03
COMPLEX LOGARITHM - LNFC...FLOATING POINT		860632	03
COMPLEX MATRIX ADDITION-CMADD...		860656	03
COMPLEX MATRIX INVERSION-CMINV...		860657	03
COMPLEX MATRIX MULTIPLICATION-CMMUL...		860658	03
COMPLEX MATRIX SUBTRACTION-CMSUB...		860659	03
COMPLEX MATRIX TRANSPOSE-CMTRA...		860660	03
COMPLEX SINE AND COSINE - SNFC...FLOATING		860635	03
COMPLEX SQUARE ROOT-SQFC...FLOATING POINT		860633	03
COMPUTE...SATFIX-SATELLITE ANGLE & RANGE		890684	03
COMPUTER ASSEMBLY PROGRAM FOR 2K-910...		890244	03
COMPUTER COUPLER TEST...INTER-		851580	03
COMPUTER COUPLER TEST...INTER-		860800	03
CONSTANT MOD....910/925 F-II HOLLERITH		850815	03
CONSTANTS...ABSOLUTE BINARY LOADER WITH		850650	03
CONTINUATION CARD MODIFICATION...FORTRAN-3		850968	03
CONTINUATION CARD MODIFICATION...FORTRAN-9		850964	03
CONTR CARDS MOD....910/925 FORTRAN II 3		850813	03
CONTR CARDS MOD....910/925 FORTRAN II 9		850814	03
CONVAIR...ANALOG TEST FOR G.D./		851618	03
CONVAIR...SAMPLE AND HOLD TEST FOR G.D./		851619	03
CONVAIR...SPECIAL ACCEPTANCE TEST FOR G.D.		851620	03
CONVERSATIONAL FORTRAN...940		870022	03
CONVERSATIONAL FUNCTIONAL ASSEMBLER...		890528	03
CONVERSION (DISCV)-S SEE...9300 DISPLAY		860645	03
CONVERSION - DTBFX...DECIMAL TO BINARY		860644	03
CONVERSION OF NUMERIC DATA...BCD		890355	03
CONVERSION ROUTINE...MEDIA		850642	03
CONVERSION ROUTINES...DECIMAL/BINARY		860643	03
CONVERSION...BINARY TO DECIMAL		890273	03
CONVERSION-BTDFL1...BINARY TO DECIMAL		860639	03
CONVERSION, XDS - UNIVAC - XDS...BCD		890293	03
CONVERTED BTDFX2,BTDFL2...BINARY TO BCD		860640	03
CONVOLUTION & FILTERING UNIT I/O ROUTINE..		890221	03
CONVOLUTION,CORR,FILTER., OF TIME SERIES..		890222	03
COPIER...PAPER TAPE AND MAGNETIC TAPE		850684	03
COPY AND VERIFY PROGRAM...MAG TAPE		860694	03

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
COPY ROUTINE...DRUM, P.T. MEMORY BINARY		850704	83
CORE DUMP TO MAGNETIC TAPE PROGRAM...		890239	83
CORE DUMP TO UNBUFFERED LINEPRINTER...		890240	83
CORP....HYBRID EXEC. LIB. FOR AEROSPACE		851064	83
CORR,FILTER., OF TIME SERIES...CONVOLUTION		890222	83
CORRECTION BY TYPEWRITER...INSPECTION/		890303	83
CORRECTION TAPE GENERATOR...PROGRAM		850701	83
CORRECTOR...HYBRID 4-POINT		860689	83
COS OF A - SIN COS...SIN OR		860619	83
COS POP-SELF FILLING...HIGH SPEED SIN-		850804	83
COS...SIN OR COS OF A - SIN		860619	83
COS)-SNFE...F. P. EXTENDED PRECISION SIN (		860647	83
COS-FLOATING-POINT SINE-COSINE SUBR....SIN		851150	83
COSDX...SINE/COSINE SINRX,COSRX,SINDX,		860669	83
COSINE - SNFC...FLOATING COMPLEX SINE AND		860635	83
COSINE AND TANGENT...HYPERBOLIC SINE,		890160	83
COSINE SINRX,COSRX,SINDX,COSDX...SINE/		860669	83
COSINE SUBR....SIN/COS-FLOATING-POINT SINE		851150	83
COSINE)-SNF (CSF)...FLOATING POINT SINE (		860628	83
COSINE-SHF...FLOATING-HYPERBOLIC SINE AND		860626	83
COSINE-SNFR(CSFR)SNFD(CSFD)...F. P. SINE/		860673	83
COSRX,SINDX,COSDX...SINE/COSINE SINRX,		860669	83
COUNT FILES/RECORDS ON MAGNETIC TAPE...		890341	83
COUPLER EXERCISER...JPL HSDL		850744	83
COUPLER TEST...INTER-COMPUTER		851580	83
COUPLER TEST...INTER-COMPUTER		860800	83
CPM) COVER...PROJECT MANAGEMENT SYSTEM (		850161	83
CPM) COVER...PROJECT MANAGEMENT SYSTEM (		850362	83
CPM) COVER...PROJECT MANAGEMENT SYSTEM (		860592	83
CPU EXERCISER 3.0...UNIT 1		870031	83
CPU TESTS 3.0...UNIT 0		870030	83
CRITICAL PATH PROGRAM...BASIC		890278	83
CROSS REFERENCE FOR FORTRAN PROGRAMS...		890586	83
CRT4-PLOTTING...UNIVERSAL GRAPHIC PACKAGE-		890297	83
CSF)...FLOATING POINT SINE (COSINE)-SNF (		860628	83
CSFD)...F. P. SINE/COSINE-SNFR(CSFR)SNFD(		860673	83
CSFR)SNFD(CSFD)...F. P. SINE/COSINE-SNFR(		860673	83
CTE 10/11 COM GEAR TEST 3.0...UNIT 23		870039	83
CURVE FIT PROGRAM...NON-LINEAR		890192	83
CURVE FIT...POLYNOMIAL		890186	83
CURVE/SURFACE FIT ARBITRARY FUNCTION...		890191	83
DACC DIAGNOSTIC TEST FOR 9300...		860745	83
DACC DIAGNOSTIC TEST WITH JX35 TESTER925..		851118	83
DASHPLOT PLOTTER...SUBROUTINE		890378	83
DC CIRCUIT ANALYSIS COMPILER...AC-		890245	83
DC...CIRCUIT DESIGN ANALYSIS CIRC		890283	83
DD-OPT PUNCH FOR INPUT TABLCON...QUBLDR		890539	83
DDT...940		870021	83
DDT-92 DEBUGGING ROUTINE...		890527	83
DEBUG PACKAGE (AID)...UTILITY AND		850688	83
DEBUG PACKAGE (AID)...UTILITY AND		860611	83
DEBUG SUBROUTINE...FORTRAN II RUN-TIME		850680	83
DEBUG...		850629	83
DEBUG...REAL-TIME FORTRAN RUN-TIME		890526	83
DEBUG...9300		860606	83
DEBUG...9300 REAL TIME		860610	83
DEBUGGING ROUTINE...DDT-92		890527	83
DEC POP-SELF F...HIGH SPEED 4 DIGIT BIN TO		850803	83
DECIMAL CONVERSION...BINARY TO		890273	83
DECIMAL CONVERSION-BTDFL1...BINARY TO		860639	83
DECIMAL TO BINARY CONVERSION - DTBFX...		860644	83
DECIMAL/BINARY CONVERSION ROUTINES...		860643	83
DEE-6D SIMULATOR SYSTEM DIAGNOSTIC...		851136	83
DEE-6D SIMULATOR SYSTEM HANDLERS...		850742	83
DEFINITE INTEGRAL EVALUATION...		890181	83
DEGREES OR RADIANS)...TANGENT-TANX,TANDX(		860680	83
DEGREES-RADIANS)...ARCSINE,ARCCOSINE (		860676	83
DES-1 DIAGNOSTIC PROGRAM...		860763	83
DES-1 HYBRID CALL LIBRARY...NAA		860799	83
DES-1 SYSGEN FOR NAA SYSTEM...		860791	83
DES-1 16K VERSION...		860780	83
DES-1 24K VERSION...		860781	83
DES-1 32K VERSION...		860782	83
DES-1 8K VERSION...		860779	83
DESIGN ANALYSIS - CIRC-AC...CIRCUIT		890318	83
DESIGN ANALYSIS CIRC DC...CIRCUIT		890283	83
DESIGN...D-T-L CIRCUIT		890277	83
DETECT ITH BIT OF A WORD...SET OR		890264	83
DETERMINANT CALCULATION...MATRIX INVERSION		890201	83
DETERMINANT EVALUATION...		890200	83
DFD) 925/930...DISC FILE DIAGNOSTIC (		851128	83
DFD)...9267 DISC FILE DIAGNOSTIC-(		860765	83
DGC NOVA SIMULATOR...16K		890886	83
DIAG...9379/9171 BUFFERED LINE PRINTER		860754	83
DIAGNOSTIC (COVER)...EXAMINER		860661	83
DIAGNOSTIC (DFD) 925/930...DISC FILE		851128	83
DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)...		851154	83
DIAGNOSTIC (RAD) 925/930...RAD APOCALYPTIC		851129	83
DIAGNOSTIC (RAD)...RAD APOCALYPTIC		850725	83
DIAGNOSTIC CONTROL PROGRAM...910/920/925		850703	83
DIAGNOSTIC EXERCISER...940 RAD		870008	83
DIAGNOSTIC FOR 9367 RAD...930 RAD		851063	83
DIAGNOSTIC PROGRAM...CARD READER/PUNCH		890884	83
DIAGNOSTIC PROGRAM...DES-1		860763	83
DIAGNOSTIC PROGRAM...INSTRUCTION		870003	83
DIAGNOSTIC PROGRAM...INTERRUPT		870004	83
DIAGNOSTIC PROGRAM...JPL APS-100 SYSTEMS		851137	83
DIAGNOSTIC PROGRAM...MEMORY		870002	83
DIAGNOSTIC PROGRAM...MEMORY ACCESS		870001	83
DIAGNOSTIC SYSTEM (COVER)...EXAMINER		851153	83
DIAGNOSTIC SYSTEM (COVER)...EXAMINER		870000	83
DIAGNOSTIC SYSTEM (COVER)...925 EXAMINER		851100	83
DIAGNOSTIC SYSTEM (COVER)...930 EXAMINER		851048	83
DIAGNOSTIC SYSTEM (COVER)...940 OLDS		870042	83
DIAGNOSTIC SYSTEM 910/920-COVER...EXAMINER		850870	83
DIAGNOSTIC TEST FOR XDS 92...DSC-I		851173	83
DIAGNOSTIC TEST FOR XDS 92...DSC-II		851174	83
DIAGNOSTIC TEST FOR XDS 92...INT, BPO, BPI		851175	83
DIAGNOSTIC TEST FOR 925/930...TMCC		851119	83
DIAGNOSTIC TEST FOR 9300...DACC		860745	83
DIAGNOSTIC TEST FOR 9300...TMCC		860748	83
DIAGNOSTIC TEST WITH JX35 TESTER925...DACC		851118	83
DIAGNOSTIC TEST...DSC-I		851116	83
DIAGNOSTIC TEST...DSC-I		860747	83
DIAGNOSTIC TEST...DSC-II		851117	83
DIAGNOSTIC TEST...DSC-II		860748	83
DIAGNOSTIC 925/930...9174/9179 PRINTER		851122	83
DIAGNOSTIC 925/930...9379 PRINTER		851123	83
DIAGNOSTIC 9379/9171...BUFFERED LINE PRT.		851180	83
DIAGNOSTIC...AUTOMATIC INSTRUCTION		860664	83
DIAGNOSTIC...BIG MEMORY		860698	83
DIAGNOSTIC...BUFFERED PRINTER		850693	83
DIAGNOSTIC...CFE-1		860766	83
DIAGNOSTIC...DEE-6D SIMULATOR SYSTEM		851136	83
DIAGNOSTIC...INSTRUCTION		850871	83
DIAGNOSTIC...MEMORY		850872	83
DIAGNOSTIC...MEMORY		860663	83
DIAGNOSTIC...MOD. 9372 UNBUF.LINE PRINTER		851179	83
DIAGNOSTIC...PRINTER		860753	83
DIAGNOSTIC...RAD APOCALYPTIC		860787	83
DIAGNOSTIC...VERIFIER AND SEMI-AUTOMATIC		860662	83
DIAGNOSTIC...2-4K MEMORY		851155	83
DIAGNOSTIC...8-16-32K MEMORY		851156	83
DIAGNOSTIC...9165 DISC EXERCISER		851082	83
DIAGNOSTIC...92 RAD ANALYTIC		851184	83
DIAGNOSTIC...925 CFE-1		851104	83
DIAGNOSTIC...925 INSTRUCTION		851102	83
DIAGNOSTIC...925 MEMORY		851101	83
DIAGNOSTIC...930 CFE-1		851058	83
DIAGNOSTIC...930 EXAMINER INSTRUCTION		851050	83
DIAGNOSTIC...930 EXAMINER MEMORY		851049	83
DIAGNOSTIC...9379 PRINTER		860792	83
DIAGNOSTIC...940 DISC EXCERCISER		870007	83
DIAGNOSTIC)...DIAGNOSTIC (MAIN-FRAME		851154	83
DIAGNOSTIC-(DFD)...9267 DISC FILE		860765	83
DIAGNOSTICS...9-SERIES MAG TAPE		890898	83
DIFF. EQU. FLOAT.POINT...RUNGE-KUTTA GILL		860613	83
DIFF. EQUATI...ADAMS-MOULTON SOLN ORDINARY		860690	83
DIFF. EQUATIONS...HYBRID ADAMS-MOULTON		860685	83
DIFFERENTIAL EQUATIONS R-K-G...SOLUTION OF		890184	83
DIFFERENTIAL EQUATIONS...ADAMS-MOULTON		860615	83
DIFFERENTIAL EQUATIONS...RUNGE-KUTTA GILL		860612	83
DIGIT BIN TO DEC POP-SELF F...HIGH SPEED 4		850803	83
DIGITAL I/O TEST FOR GD/C ATS...		851815	83
DIGITAL TRANSFER...FREQUENCY RESPONSE OF		890275	83
DIR TIME HISTORY...AIRPLANE LAT-		890284	83
DISARM FEATURE CHECKOUT...ARM/		850721	83
DISARM FEATURE TEST PROGRA...INTERRUPT ARM		860769	83
DISC DUMP...940 TIME-SHARING SYSTEM		870009	83
DISC DUMP/LOAD...940		870014	83
DISC EXCERCISER DIAGNOSTIC...940		870007	83
DISC EXERCISER DIAGNOSTIC...9165		851082	83
DISC FILE DIAGNOSTIC (DFD) 925/930...		851128	83
DISC FILE DIAGNOSTIC-(DFD)...9267		860765	83
DISC FILE MODEL 9367-A 925/...TEST PROGRAM		851130	83
DISC FILE TEST PROGRAM...		851127	83
DISC FILE 9367-A...TEST PROGRAM FOR		851185	83
DISC SWAP...		870013	83
DISC TEST 3.0...UNIT 21 H CHANNEL		870038	83
DISC...UNIT 18 E CHANNEL		870040	83
DISC...UNIT 19 F CHANNEL		870041	83
DISC...940 MAP		870012	83
DISCV)-S SEE...9300 DISPLAY CONVERSION		860645	83
DISK (RAD) HANDLER...		890300	83
DISPLAY CONVERSION (DISCV)-S SEE...9300		860645	83
DISPLAY EXECUTIVE LIBRARY...USNPGS		861079	83
DISPLAY ROUTINE...OSCILLOSCOPE		890225	83
DISPLAY ROUTINE...OSCILLOSCOPE		890242	83
DISPLAY SUBSYSTEM...USNPGS		861084	83
DISPLAY SYSTEM TEST...CATHODE RAYTUBE		860762	83
DISPLAY TEST PROG....9158 CATHODE-RAY TUBE		850724	83
DISPLAY TEST PROGRAM...USNPGS		861077	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
DISPLAY UNIT/S RE1...9185 CATHODE RAY TUBE		850727	83
DISTRIBUTION TEST ANALOG INPUTS...GAUSSIAN		850710	83
DIVIDE SUBROUTINE-DPD...DOUBLE PRECISION		860624	83
DIVISION, POLYDIV...POLYNOMIAL		890163	83
DOUBLE INTEGRATION BY SIMPSONS...		890182	83
DOUBLE PRECISION DIVIDE SUBROUTINE-DPD...		860624	83
DOUBLE PRECISION FLOATING POINT POP...		851047	83
DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM..		860621	83
DOUGLAS MOL SYS. CHECK OUT PROGRAM...		860788	83
DPD TEST PROGRAM...		860768	83
DPD...DOUBLE PRECISION DIVIDE SUBROUTINE-		860624	83
DPM...DOUBLE PRECISION MULTIPLY SUBROUTINE		860621	83
DRUM HANDLER...GENERAL		850705	83
DRUM LINKING SYSTEM...910 FORTRAN		850862	83
DRUM MEMORY TEST PROGRAM...9161		850716	83
DRUM READ/WRITE MODIFICATION...FORTRAN II		850864	83
DRUM READ/WRITE STATEMENTS...FORTRAN		851026	83
DRUM...LINK 0 BOOTSTRAP FOR		850707	83
DRUM, P.T. MEMORY BINARY COPY ROUTINE...		850704	83
DSC-I DIAGNOSTIC TEST FOR XDS 92...		851173	83
DSC-I DIAGNOSTIC TEST...		851116	83
DSC-I DIAGNOSTIC TEST...		860747	83
DSC-II DIAGNOSTIC TEST FOR XDS 92...		851174	83
DSC-II DIAGNOSTIC TEST...		851117	83
DSC-II DIAGNOSTIC TEST...		860748	83
DTBFX...DECIMAL TO BINARY CONVERSION -		860644	83
DUMP (PRINTER)...ONE CARD OCTAL MEMORY		860641	83
DUMP (TYPEWRITER)...ONE CARD OCTAL MEMORY		860722	83
DUMP A AND B FORMATS...SEISMIC		850740	83
DUMP FOR 9372 PRINTER...MEMORY		890252	83
DUMP PAPER TAPE OR CARDS...BINARY		860608	83
DUMP PUNCH PROGRAM...1-CARD		851613	83
DUMP SUBROUTINE...REAL TIME FORTRAN OCTAL		890251	83
DUMP TO MAGNETIC TAPE PROGRAM...CORE		890239	83
DUMP TO UNBUFFERED LINEPRINTER...CORE		890240	83
DUMP...BUFFERED LINE PRINTER MEMORY		850683	83
DUMP...MEMORY TO LINE PRINTER OCTAL		851176	83
DUMP...RAD TO MAGNETIC TAPE		851614	83
DUMP...RAD TO MAGNETIC TAPE		861082	83
DUMP...900 SERIES FORTRAN II COMPILER		850662	83
DUMP...940 TIME-SHARING SYSTEM DISC		870009	83
DUMP/LOAD...940 DISC		870014	83
DUMP, PAPER TAPE OR CARDS...BINARY		850643	83
DUPLICATOR (REPRO)...CARD RESEQUENCE -		890269	83
DUPLICATOR...PAPER TAPE		890296	83
DVA INSTRUCTION...DVASIM -SIMULATED		851589	83
DVASIM -SIMULATED DVA INSTRUCTION...		851589	83
DVB INSTRUCTION...DVBSIM -SIMULATED		851590	83
DVBSIM -SIMULATED DVB INSTRUCTION...		851590	83
EARTH ATMOSPHERE ROUTINE...U.S.STANDARD		890280	83
EARTH MODEL ATMOSPHERE...U.S.STANDARD		890279	83
ECAP)...3GO ELECTRONIC CIRCUIT ANALYSIS		890669	83
EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE..		890542	83
EDIT, CHARACTER STREAM EDITING PROGRAM...		890249	83
EDITING PROGRAM...EDIT, CHARACTER STREAM		890249	83
EDITOR...BASIC SYMBOLIC MAGNETIC TAPE		850663	83
EDITOR...BINARY MAG TAPE		860737	83
EDITOR...XDS 92 PAPER TAPE		890274	83
EDWARDS HYBRID EXECUTION LIBRARY...NASA		860796	83
EDWARDS INTERFACE TEST...NASA		860795	83
EFFADR -EFFECTIVE ADDRESS ROUTINE...		851595	83
EFFECTIVE ADDRESS ROUTINE...EFFADR -		851595	83
ELECTRIC MOL SYS. CHECK OUT PROG...GENERAL		860789	83
ELECTRONIC CIRCUIT ANALYSIS (ECAP)...3GO		890669	83
ELIMINATION...MEMORY TYPE-OUT, REDUNDANCY		850628	83
ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON)..		850647	83
END OF FILE TEST...CARD READER		890265	83
END-OF-FILE TEST...		890338	83
END-OF-PAGE TEST ROUTINE...		890339	83
EQU. FLOAT.POINT...RUNGE-KUTTA GILL DIFF.		860613	83
EQUATI...ADAMS-MOULTON SOLN ORDINARY DIFF.		860690	83
EQUIPMENT DEMONSTRATION...JPL TCP ANALOG		851027	83
ERASE MAGNETIC TAPE IN FORTRAN...		890356	83
ERRF, ZGAUSSF, P...PROBABILITY FUNCTIONS -		890347	83
ERROR CHECKING DEMO...FORTRAN IV		860700	83
ERROR...		890343	83
EVALUATION (COMPLEX ARGUMENT)...POLYNOMIAL		860614	83
EVALUATION...DEFINITE INTEGRAL		890181	83
EVALUATION...DETERMINANT		890200	83
EXAMINER DIAGNOSTIC (COVER)...		860661	83
EXAMINER DIAGNOSTIC SYSTEM (COVER)...		851153	83
EXAMINER DIAGNOSTIC SYSTEM (COVER)...		870000	83
EXAMINER DIAGNOSTIC SYSTEM (COVER)...925		851100	83
EXAMINER DIAGNOSTIC SYSTEM (COVER)...930		851048	83
EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER..		850670	83
EXAMINER INSTRUCTION DIAGNOSTIC...930		851050	83
EXAMINER MEMORY DIAGNOSTIC...930		851049	83
EXAMINER P AND S REGISTER TESTER...930		851051	83
EXAMPLE...LIBRARY UPDATE		890270	83
EXCERCISER DIAGNOSTIC...940 DISC		870007	83
EXCHANGE...SORT-MODIFIED SHELL MERGE-		890338	83

KEY	TITLE	CAT.NO	CL
EXEC. LIB. FOR AEROSPACE CORP....HYBRID		851084	83
EXECUTION LIBRARY...NASA EDWARDS HYBRID		860798	83
EXECUTIVE LIBRARY...USNPGS DISPLAY		861079	83
EXECUTIVE LIBRARY...USNPGS HYBRID		861078	83
EXECUTIVE...NORTH AMERICAN AVIATION HYBRID		860798	83
EXECUTIVE...940 OPERATOR'S		870011	83
EXECUTIVE...940 TIME-SHARING SYSTEM		870018	83
EXER....EXTENDED MODE MULTI-MAGNETIC TAPE		851113	83
EXERCISER DIAGNOSTIC...9165 DISC		851082	83
EXERCISER 3.0...UNIT 1 CPU		870031	83
EXERCISER...INTERRUPT		860887	83
EXERCISER...JPL HSDL COUPLER		850744	83
EXERCISER...MTE-1 MAGNETIC TAPE		851054	83
EXERCISER...MTE-2 MAGNETIC TAPE		851181	83
EXERCISER...MULTI-MAGNETIC TAPE		851171	83
EXERCISER...MULTI-MAGNETIC TAPE SYSTEM		850676	83
EXERCISER...15 KC MAGNETIC TAPE		851145	83
EXERCISER...9TK EXTEND MODE MULTI-MAG TAPE		850755	83
EXERCISER...9TK EXTEND MODE MULTI-MAG TAPE		860794	83
EXERCISER...940 RAD DIAGNOSTIC		870008	83
EXERCISER-15KC...MAGNETIC TAPE SYSTEM		850674	83
EXERCISER, W BUFFER...42KC MAGNETIC TAPE		850696	83
EXERCISER, Y BUF...42KC MAG TAPE SYS		850682	83
EXERCISER, 4 CHAR. MODE...MTE-3 MAG TAPE		860784	83
EXERCISER,2 TP SYTM-15KC...MAGNETIC TP		850679	83
EXERCISOR 4 CHAR MODE...MTE 3 MAG TAPE		851056	83
EXERCISOR...EXTENDED MODE MULTI MAG TAPE		860738	83
EXERCISOR, 3 CHAR MODE...MTE-3 MAG TAPE		851055	83
EXFC...FLOATING POINT COMPLEX EXPONENTIAL-		860631	83
EXFN,EXFT...FLOATING POINT EXPONENTIAL		860672	83
EXFT...FLOATING POINT EXPONENTIAL EXFN,		860672	83
EXP -FLOATING POINT EXPONENTIAL...		851596	83
EXP...EXPONENTAIL OF A -		860618	83
EXP...FLOATING POINT EXPONENTIAL -		860627	83
EXPANSION OF RATIONAL POLYNOMIAL...SERIES		890166	83
EXPNX,EXPTX...9300 EXPONENTIAL (E OR 10)		860670	83
EXPONENTAIL OF A - EXP...		860618	83
EXPONENTIAL (E OR 10) EXPNX,EXPTX...9300		860670	83
EXPONENTIAL - EXP...FLOATING POINT		860627	83
EXPONENTIAL EXFN,EXFT...FLOATING POINT		860672	83
EXPONENTIAL INTEGRAL...REAL		890175	83
EXPONENTIAL...EXP -FLOATING POINT		851596	83
EXPONENTIAL...FL. PT.EXTENDED PRECISION		860842	83
EXPONENTIAL-EXFC...FLOATING POINT COMPLEX		860631	83
EXPTX...9300 EXPONENTIAL (E OR 10) EXPNX,		860670	83
EXT.I/O TEST (NAV.TOR.STA.SYS.,ADD-ON)...		851299	83
EXT'D UNBUF LINE PRT. LIB ROUT....ALGOL 60		850690	83
EXTEND MODE MULTI-MAG TAPE EXERCISER...9TK		850755	83
EXTEND MODE MULTI-MAG TAPE EXERCISER...9TK		860794	83
EXTENDED MODE I/O TEST PROGRAM...		851107	83
EXTENDED MODE I/O TEST PROGRAM...		860718	83
EXTENDED MODE MULTI MAG TAPE EXERCISOR...		860738	83
EXTENDED MODE MULTI-MAGNETIC TAPE EXER....		851113	83
EXTENDED MODE)...MAGNETIC TAPE HANDLER (		851112	83
EXTENDED PRECISION ARCTAN - ATFE...FL. PT.		860650	83
EXTENDED PRECISION ARITHMETIC PACKAGE...		860838	83
EXTENDED PRECISION NATURAL LOG...FL. PT.		860846	83
EXTENDED PRECISION SIN (COS)-SNFE...F. P.		860847	83
EXTENDED PRECISION SQUARE ROOT...FL. PT.		860837	83
EXTENDER LIB.-BIT HANDLING & I/O...FORTRAN		890310	83
EXTRAPOLATION ROUTINE...INTERPOLATION OR		890295	83
F. P. EXTENDED PRECISION SIN (COS)-SNFE...		860847	83
F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)...		860873	83
FACTOR ANALYSIS...PRINCIPAL AXES		890203	83
FACTORIAL ROUTINE...		890159	83
FACTORS NATURAL GAS...SUPERCOMPRESSIBILITY		890207	83
FAIL-SAFE INTERRUPT TESTER...POWER		850720	83
FAIL-SAFE TEST...MEMORY LOCK-OUT AND POWER		851057	83
FAIL-SAFE TEST...MEMORY LOCK-OUT AND POWER		860758	83
FAIL-SAFE TEST...POWER		851186	83
FAST FORTRAN PRINT SUBROUTINE...		890224	83
FAST FOURIER TRANSFORM--FOR2D...		890317	83
FAST FOURIER TRANSFORM--FOUR0...		890314	83
FAST FOURIER TRANSFORM--FOUR1...		890313	83
FAST FOURIER TRANSFORM--FOUR2...		890316	83
FAST LISTING MOD....910/925 FORTRAN II		890315	83
FAULT TREE TEST PROGRAM...BOEING		850858	83
FC-1)...910/925 F-II COMPILER (		860778	83
FEATURE CHECKOUT...ARM/DISARM		850211	83
FEATURE TEST PROGRA...INTERRUPT ARM-DISARM		850721	83
FILE DIAGNOSTIC (DFD) 925/930...DISC		860769	83
FILE DIAGNOSTIC-(DFD)...9267 DISC		851128	83
FILE MODEL 9367-A 925/...TEST PROGRAM DISC		860785	83
FILE TEST PROGRAM...DISC		851130	83
FILE TEST...CARD READER END OF		851127	83
FILE TEST...END-OF-		890285	83
FILE 9367-A...TEST PROGRAM FOR DISC		890338	83
FILES/RECORDS ON MAGNETIC TAPE...COUNT		851185	83
FILL SIMULATOR (910/920)...CARD		890341	83
FILL SIMULATOR(910/920...MAG TAPE STANDARD		850651	83
		850668	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
FILLING...HIGH SPEED ARCTANGENT POP-SELF		850805	83
FILLING...HIGH SPEED SIN-COS POP-SELF		850804	83
FILTER., OF TIME SERIES...CONVOLUTION,CORR		890222	83
FILTERING UNIT I/O ROUTINE...CONVOLUTION &		890221	83
FIRST KIND, ORDER ZERO...BESSEL FUNCTION-		890177	83
FIT ARBITRARY FUNCTION...CURVE/SURFACE		890191	83
FIT PROGRAM...NON-LINEAR CURVE		890192	83
FIT...POLYNOMIAL CURVE		890186	83
FIX -FLOATING TO A FIXED SUBROUTINE...		851588	83
FIXED SUBROUTINE...FIX -FLOATING TO A		851588	83
FIXED TO FLOATING SUBROUTINE...FLOAT -		851587	83
FL. PT. ARCTANGENT-ATFR,ATFD...		860675	83
FL. PT. EXTENDED PRECISION ARCTAN - ATFE..		860650	83
FL. PT. EXTENDED PRECISION NATURAL LOG...		860646	83
FL. PT. EXTENDED PRECISION SQUARE ROOT...		860637	83
FL. PT.EXTENDED PRECISION EXPONENTIAL...		860642	83
FLAG OPERATION, FLGPO...SINGLE INSTRUCTION		890257	83
FLAG PACKING)...BOOLIAN MATRIX (		890199	83
FLGPO...SINGLE INSTRUCTION FLAG OPERATION,		890257	83
FLN -FLOATING NEGATE SUBROUTINE...		851586	83
FLN...FLOATING NEGATE SUBROUTINE -		860616	83
FLOAT -FIXED TO FLOATING SUBROUTINE...		851587	83
FLOAT.POINT...RUNGE-KUTTA GILL DIFF. EQU.		860613	83
FLOATING COMPLEX SINE AND COSINE - SNFC...		860635	83
FLOATING NEGATE SUBROUTINE - FLN...		860616	83
FLOATING NEGATE SUBROUTINE...FLN -		851586	83
FLOATING NORMALIZE SUBROUTINE...NORMZ -		851593	83
FLOATING POINT - SQF...SQUARE ROOT		860623	83
FLOATING POINT ARCTANGENT - ATF...		860629	83
FLOATING POINT ARITHMETIC PKGE, FLPT92...		851597	83
FLOATING POINT COMPLEX ARCTANGENT - ATFC..		860634	83
FLOATING POINT COMPLEX EXPONENTIAL-EXFC...		860631	83
FLOATING POINT COMPLEX LOGARITHM - LNFC...		860632	83
FLOATING POINT COMPLEX SQUARE ROOT-SQFC...		860633	83
FLOATING POINT EXPONENTIAL - EXP...		860627	83
FLOATING POINT EXPONENTIAL EXFN,EXFT...		860672	83
FLOATING POINT EXPONENTIAL...EXP -		851596	83
FLOATING POINT LOGARITHM - LGF...		860625	83
FLOATING POINT PACKAGE-FLPT...PROGRAMMED		860617	83
FLOATING POINT POP...DOUBLE PRECISION		851047	83
FLOATING POINT SINE (COSINE)-SNF (CSF)...		860628	83
FLOATING POINT TESTS 3.0...UNIT 2		870032	83
FLOATING POINT...PACKING AND UNPACKING OF		890337	83
FLOATING POINT, COMPLEX ARITH. PACKAGE...		860630	83
FLOATING SUBROUTINE...FLOAT -FIXED TO		851587	83
FLOATING TO A FIXED SUBROUTINE...FIX -		851588	83
FLOATING-HYPERBOLIC SINE AND COSINE-SHF...		860626	83
FLOATING-POINT ARCTANGENT SUBR....ATAN-		851151	83
FLOATING-POINT NATURAL LOGARITHM...LN-		851149	83
FLOATING-POINT SINE-COSINE SUBR....SIN/COS		851150	83
FLOATING-POINT SQUARE ROOT SUBRT....SQRT -		851594	83
FLOWCHART PROGRAM...FORTRAN		890267	83
FLOWCHARTER...FORTRAN		890776	83
FLPT...PROGRAMMED FLOATING POINT PACKAGE-		860617	83
FLPT92...FLOATING POINT ARITHMETIC PKGE,		851597	83
FORMAT STATEMENTS...XDS 910/925 FORTRAN II		850833	83
FORMATS...SEISMIC DUMP A AND B		850740	83
FORMATS-AT RUN-TIME MOD....FORTRAN II		850963	83
FORT II CARD/PAPER TAPE INPT MOD...920/930		850989	83
FORT II MAG TPE/PAPER TPE OUTPUT...920/930		850997	83
FORT II-FORT IVH...FORTRAN PRECOMPILER		890384	83
FORT IV COMPILER AND LIBRARIES...		860035	83
FORT IVH...FORTRAN PRECOMPILER FORT II-		890384	83
FORTRAN BUFFERED PRINTER MODIFICATION...		851015	83
FORTRAN CALCOMP PLOTTER ROUTINE...		890241	83
FORTRAN CARD READ SUBROUTINE (216 SYS)...		890306	83
FORTRAN COMMON SOFTWARE PKG....920/930 R/T		850480	83
FORTRAN COMMON SOFTWARE PKG...REAL-TIME		850400	83
FORTRAN DEMONSTRATION PROGRAM...XDS		850698	83
FORTRAN DRUM LINKING SYSTEM...910		850862	83
FORTRAN DRUM READ/WRITE STATEMENTS...		851026	83
FORTRAN EXTENDER LIB.-BIT HANDLING & I/O..		890310	83
FORTRAN FLOWCHART PROGRAM...		890267	83
FORTRAN FLOWCHARTER...		890776	83
FORTRAN FREE INTERRUPTS SUBROUTINE...		850686	83
FORTRAN HOLLERITH LITERALS MODIFICATION...		850967	83
FORTRAN II (COVER)...920/930 REAL TIME		850984	83
FORTRAN II (S/A) SYSTEM...910/925 R.T.		850830	83
FORTRAN II BUFFERED PRT. MOD....910/925		850857	83
FORTRAN II CARD INPUT MOD....910/925		850835	83
FORTRAN II CARD INPUT MOD....920/930		850990	83
FORTRAN II CARD OUTPUT MOD....910/925		850837	83
FORTRAN II CARD OUTPUT MOD....920/930		850991	83
FORTRAN II CARD PUNCH TAPE MOD....910/925		850836	83
FORTRAN II COMMON SOFTWARE PACKAGE...		850210	83
FORTRAN II COMPILER DUMP...900 SERIES		850662	83
FORTRAN II COMPILER UNBUF. PRT....920/930		851017	83
FORTRAN II COMPILER...940		870020	83
FORTRAN II DRUM READ/WRITE MODIFICATION...		850864	83
FORTRAN II FAST LISTING MOD....910/925		850858	83
FORTRAN II FORMAT STATEMENTS...XDS 910/925		850833	83
FORTRAN II FORMATS-AT RUN-TIME MOD....		850963	83
FORTRAN II LIBRARY FOR THE XDS 940...		870027	83
FORTRAN II MAG TAPE INPUT MOD....920/930		850992	83
FORTRAN II MAG TAPE OUTPUT MOD....910/925		850841	83
FORTRAN II MAG TAPE OUTPUT MOD....920/930		850998	83
FORTRAN II MAGNETIC TAPE I/O ROUTINE...		890219	83
FORTRAN II MEMORY SAVE...		850838	83
FORTRAN II MOD. LOADER...910/925		850812	83
FORTRAN II MODIFICATION LOADER...		850965	83
FORTRAN II RAD LINKING PROCESSOR-RADLNK...		890298	83
FORTRAN II RUN-TIME DEBUG SUBROUTINE...		850680	83
FORTRAN II RUNTIME SYSTEM...		870028	83
FORTRAN II SYSTEM (STAND ALONE)...910/925		850808	83
FORTRAN II SYSTEM (STAND ALONE)...920/930		850957	83
FORTRAN II TYPE SUBR. (LONG CARRIAGE)...		850708	83
FORTRAN II UNBUFFERED PRTR.MOD....910/925		850859	83
FORTRAN II 3 CONTR CARDS MOD....910/925		850813	83
FORTRAN II 9 CONTR CARDS MOD....910/925		850814	83
FORTRAN IV COMPILER...XDS 92		890320	83
FORTRAN IV COMPILER...900 SERIES		851583	83
FORTRAN IV ERROR CHECKING DEMO...		860700	83
FORTRAN IV LIBRARY 9RDDISC,9WRDISC...		861085	83
FORTRAN IV LIBRARY...		860095	83
FORTRAN IV LIBRARY...REAL-TIME		860265	83
FORTRAN IV LIBRARY...925/930		851300	83
FORTRAN LABEL TRACE POP (160 SYS)...		890308	83
FORTRAN MEMORY SAVE ON MAG TAPE...		890304	83
FORTRAN OCTAL DUMP SUBROUTINE...REAL TIME		890251	83
FORTRAN PRECOMPILER FORT II-FORT IVH...		890384	83
FORTRAN PRINT SUBROUTINE...FAST		890224	83
FORTRAN PROGRAMS...CROSS REFERENCE FOR		890588	83
FORTRAN READ AND WRITE TAPE ROUTINES....		890335	83
FORTRAN RUN-TIME DEBUG...REAL-TIME		890526	83
FORTRAN SEARCH ARRAY...		890247	83
FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE..		850841	83
FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST..		890253	83
FORTRAN...ERASE MAGNETIC TAPE IN		890358	83
FORTRAN...940 CONVERSATIONAL		870022	83
FORTRAN-II COMMON SOFTWARE PKG....920/930		850315	83
FORTRAN-3 CONTINUATION CARD MODIFICATION..		850988	83
FORTRAN-9 CONTINUATION CARD MODIFICATION..		850984	83
FORTRANRAN...LABEL TRACE ROUTINE, L-		890250	83
FOR2D...FAST FOURIER TRANSFORM--		890317	83
FOUR0...FAST FOURIER TRANSFORM--		890314	83
FOURIER COEFFICIENTS PERIODIC FUNCTIONS...		890188	83
FOURIER TRANSFORM--FOR2D...FAST		890317	83
FOURIER TRANSFORM--FOUR0...FAST		890314	83
FOURIER TRANSFORM--FOURT...FAST		890313	83
FOURIER TRANSFORM--FOUR1...FAST		890316	83
FOURIER TRANSFORM--FOUR2...FAST		890315	83
FOURT...FAST FOURIER TRANSFORM--		890313	83
FOUR1...FAST FOURIER TRANSFORM--		890316	83
FOUR2...FAST FOURIER TRANSFORM--		890315	83
FPMIN...GRADIENT MINIMIZATION ROUTINE -		890180	83
FRAME DIAGNOSTIC)...DIAGNOSTIC (MAIN-		851154	83
FRANKLIN PRINTER TEST PROGRAM...		850722	83
FREQUENCY BY PRONY'S METHOD...		890189	83
FREQUENCY RESPONSE OF DIGITAL TRANSFER...		890275	83
FUNCTION & SUBROUTINE...WORD/BIT ORIENTED		890332	83
FUNCTION J0, J1 Y0, Y1...BESSEL		890174	83
FUNCTION KN(X),...BESSEL		890176	83
FUNCTION SUBROUTINE...BESSEL		890178	83
FUNCTION.:.CURVE/SURFACE FIT ARBITRARY		890191	83
FUNCTION...GAMMA		890173	83
FUNCTION-FIRST KIND, ORDER ZERO...BESSEL		890177	83
FUNCTIONAL ASSEMBLER...CONVERSATIONAL		890528	83
FUNCTIONS - ERRF, ZGAUSSF, P...PROBABILITY		890347	83
FUNCTIONS...ARCSIN AND ARCCOS		890158	83
FUNCTIONS...COMPLEX ARITHMETIC		890354	83
FUNCTIONS...FOURIER COEFFICIENTS PERIODIC		890188	83
FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0,K1...BESSEL		890179	83
G.D./CONVAIR...ANALOG TEST FOR		851618	83
G.D./CONVAIR...SAMPLE AND HOLD TEST FOR		851619	83
G.D./CONVAIR...SPECIAL ACCEPTANCE TEST FOR		851620	83
GAMMA FUNCTION...		890173	83
GAS...SUPERCOMPRESSIBILITY FACTORS NATURAL		890207	83
GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS..		850710	83
GAUSSIAN NORMAL PROBABILITY INTEGRAL...		890208	83
GAUSSIAN NORMAL PROBABILITY ORDINATE...		890205	83
GD/C ATS...ANALOG ACCURACY TEST FOR		851617	83
GD/C ATS...ANALOG/NSC-II TEST FOR		851616	83
GD/C ATS...DIGITAL I/O TEST FOR		851615	83
GEAR TEST 3.0...UNIT 23 CTE 10/11 COM		870039	83
GEN. TEST PROGRAM...BOEING RANDOM NUM.		860777	83
GENERA-PLOTTERTER...GENERAL GRAPHIC		890228	83
GENERAL DRUM HANDLER...		850705	83
GENERAL ELECTRIC MOL SYS. CHECK OUT PROG..		860789	83
GENERAL GRAPHIC GENERA-PLOTTERTER...		890228	83
GENERAL MAG TAPE ROUTINE...A		890541	83
GENERAL PLOTTING PACKAGE...		890350	83
GENERATOR (RANDX)...PSEUDO-RANDOM NUMBER		890214	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
GENERATOR FOR RAD MONARCH...BOOTSTRAP		850023	83
GENERATOR PROGRAM...PAYROLL		860743	83
GENERATOR...BINARY PAPER TAPE BOOTSTRAP +		850634	83
GENERATOR...BLANK PAPER TAPE LEADER		890223	83
GENERATOR...PAYROLL		851010	83
GENERATOR...PROGRAM CORRECTION TAPE		850701	83
GENERATOR...RANDOM NUMBER		890211	83
GENERATOR...UNCORRELATED RANDOM NUMBER		890213	83
GENERATOR, RANDU...RANDOM NUMBER		890212	83
GILL DIFF. EQU. FLOAT.POINT...RUNGE-KUTTA		860613	83
GILL DIFFERENTIAL EQUATIONS...RUNGE-KUTTA		860612	83
GILL INTEGRATION...HYBRID RUNGE-KUTTA		860681	83
GO MO KU...		850968	83
GRADIENT MINIMIZATION ROUTINE - FPMIN...		890180	83
GRAPH ROUT FOR THE LINEPRINTER-PLOTTING...		890259	83
GRAPH ROUTINES FOR LINE PRINTER-PLOTTING..		890260	83
GRAPHIC GENERA-PLOTTERTER...GENERAL		890228	83
GRAPHIC PACKAGE-CRT4-PLOTTING...UNIVERSAL		890297	83
HALT AND TRANSFER SIMULATION ROUTINE...		890255	83
HANDLER (CDR)...CARD READ		851167	83
HANDLER (EXTENDED MODE)...MAGNETIC TAPE		851112	83
HANDLER (MTAPE)...MAGNETIC TAPE		860732	83
HANDLER CDRP...I/O		860731	83
HANDLER 925/930...PAPER TAPE - TYPEWRITER		851106	83
HANDLER...DISK (RAD)		890300	83
HANDLER...GENERAL DRUM		850705	83
HANDLERS...DEE-6D SIMULATOR SYSTEM		850742	83
HANDLING & I/O...FORTRAN EXTENDER LIB.-BIT		890310	83
HANDLING ROUTINE - TAPE...TAPE		890261	83
HIGH SPEED ARCTANGENT POP-SELF FILLING...		850805	83
HIGH SPEED SIN-COS POP-SELF FILLING...		850804	83
HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F..		850803	83
HILL-CLIMBING SUBROUTINE...CLIMB1 A		890167	83
HISTOGRAPH PLOT LINE PRINTER-HSTPLOT...		890290	83
HISTORY...AIRPLANE LAT-DIR TIME		890284	83
HISTPLOT...HISTPRINT AND		890345	83
HISTPRINT AND HISTPLOT...		890345	83
HOLD TEST FOR G.D./CONVAIR...SAMPLE AND		851619	83
HOLLERITH CONSTANT MOD....910/925 F-II		850815	83
HOLLERITH LITERALS MODIFICATION...FORTRAN		850967	83
HOUSTON LEM...ACCEPT TEST PROG.FOR NASA		860790	83
HSDL COUPLER EXERCISER...JPL		850744	83
HSDL TEST PROGRAM...JPL		850743	83
HSTPLOT...HISTOGRAPH PLOT LINE PRINTER-		890290	83
HYBRID ADAMS-MOULTON DIFF. EQUATIONS...		860685	83
HYBRID CALL LIBRARY...NAA DES-1		860799	83
HYBRID EXEC. LIB. FOR AEROSPACE CORP....		851064	83
HYBRID EXECUTION LIBRARY...NASA EDWARDS		860796	83
HYBRID EXECUTIVE LIBRARY...USNPGS		861078	83
HYBRID EXECUTIVE...NORTH AMERICAN AVIATION		860798	83
HYBRID INTERFACE TEST...NORTH AMERICAN		860797	83
HYBRID INTERFACE TEST...USNPGS		861076	83
HYBRID RECTANGULAR INTEGRATION...		860686	83
HYBRID RUNGE-KUTTA GILL INTEGRATION...		860681	83
HYBRID 2-POINT PREDICTOR...		860687	83
HYBRID 4-POINT CORRECTOR...		860689	83
HYBRID 4-POINT PREDICTOR...		860688	83
HYPERBOLIC SINE AND COSINE-SHF...FLOATING-		860626	83
HYPERBOLIC SINE, COSINE AND TANGENT...		890160	83
INDEPENDENT VARI...LINEAR INTERPOLATION-1		850914	83
INDEPENDENT VARI...LINEAR INTERPOLATION-2		850915	83
INDEPENDENT VARI...LINEAR INTERPOLATION-3		850916	83
INDEX PROGRAM FOR SIGMA...KWIC		860698	83
INDUSTRY PACKAGE...UTILITIES		890285	83
INPT MOD...920/930 FORT II CARD/PAPER TAPE		850989	83
INPUT AND STORE...SAMPLE DATA FROM ANALOG		890292	83
INPUT FROM MAG. TAPE...READ BLOCKED		890220	83
INPUT MOD....910/925 FORTRAN II CARD		850835	83
INPUT MOD....920/930 FORTRAN II CARD		850990	83
INPUT MOD....920/930 FORTRAN II MAG TAPE		850992	83
INPUT ONE CARD LOADER...BINARY		850648	83
INPUT TABLCON...QUBLDR DD-OPT PUNCH FOR		890539	83
INPUT--PAPER TAPE LOADER...BINARY		860716	83
INPUT-BASIC PAPER TAPE LOADER...BINARY		850644	83
INPUT-MAGNETIC TAPE ABSOLUTE LDR...BINARY		850667	83
INPUT-ONE CARD LOADER...OCTAL		850653	83
INPUT-TWO CARD LOADER...BINARY		850649	83
INPUT-1 CARD ABS. LOADER...BINARY		860721	83
INPUT-1 CARD LOADER...OCTAL		860723	83
INPUT/OPTIONAL MAG. TAPE...CARD SYMBOLIC		890272	83
INPUT/OPTIONAL MAG....PSI OR TSI SYMBOLIC		890271	83
INPUT/OUTPUT PACKAGE-QUINOUT...MONITOR		890246	83
INPUTS...GAUSSIAN DISTRIBUTION TEST ANALOG		850710	83
INSPECTION/CORRECTION BY TYPEWRITER...		890303	83
INST....SIMULATION OF SKIP ON COMPARISON		890256	83
INSTRUCTION DIAGNOSTIC PROGRAM...		870003	83
INSTRUCTION DIAGNOSTIC...		850671	83
INSTRUCTION DIAGNOSTIC...AUTOMATIC		860664	83
INSTRUCTION DIAGNOSTIC...925		851102	83
INSTRUCTION DIAGNOSTIC...930 EXAMINER		851050	83
INSTRUCTION FLAG OPERATION, FLGPO...SINGLE		890257	83
INSTRUCTION...DVASIM -SIMULATED DVA		851589	83
INSTRUCTION...DVBSIM -SIMULATED DVB		851590	83
INSTRUCTION...MUASIM -SIMULATED MUA		851591	83
INSTRUCTION...MUBSIM -SIMULATED MUB		851592	83
INTEGRAL EVALUATION...DEFINITE		890181	83
INTEGRAL...GAUSSIAN NORMAL PROBABILITY		890206	83
INTEGRAL...REAL EXPONENTIAL		890175	83
INTEGRATION BY SIMPSONS...DOUBLE		890182	83
INTEGRATION...HYBRID RECTANGULAR		860686	83
INTEGRATION...HYBRID RUNGE-KUTTA GILL		860681	83
INTEGRATION...RUNGE-KUTTA		890183	83
INTER-COMPUTER COUPLER TEST...		851580	83
INTER-COMPUTER COUPLER TEST...		860800	83
INTERFACE TEST...NASA EDWARDS		860795	83
INTERFACE TEST...NORTH AMERICAN HYBRID		860797	83
INTERFACE TEST...USNPGS HYBRID		861078	83
INTERLACE I/O TEST PROGRAM...INTERRUPT-		851152	83
INTERLACE)...CARD PUNCH TEST PROG/MOD.9157		850859	83
INTERNAL SORT (SORTAC,SORTDC)...		860879	83
INTERPOLATION (1 ARGUMENT)...LINEAR		860684	83
INTERPOLATION (2 ARGUMENTS)...LINEAR		860683	83
INTERPOLATION (3 ARGUMENTS)...LINEAR		860682	83
INTERPOLATION OR EXTRAPOLATION ROUTINE...		890295	83
INTERPOLATION...LAGRANGE		890185	83
INTERPOLATION-1 INDEPENDENT VARI...LINEAR		850914	83
INTERPOLATION-2 INDEPENDENT VARI...LINEAR		850915	83
INTERPOLATION-3 INDEPENDENT VARI...LINEAR		850916	83
INTERRUPT ARM-DISARM FEATURE TEST PROGRA..		860769	83
INTERRUPT DIAGNOSTIC PROGRAM...		870004	83
INTERRUPT EXERCISER...		860867	83
INTERRUPT SOURCE TEST...PRIORITY		850735	83
INTERRUPT TEST ROUTINE...SPECIAL PRIORITY		860759	83
INTERRUPT TEST...PRIORITY		850711	83
INTERRUPT TESTER...POWER FAIL-SAFE		850720	83
INTERRUPT-INTERLACE I/O TEST PROGRAM...		851152	83
INTERRUPTS SUBROUTINE...FORTRAN FREE		850686	83
INTERUPT AND INTRLACE...15KC MAG TAPE TEST		850673	83
INTRLACE...15KC MAG TAPE TEST-INTERUPT AND		850673	83
INVERSE Z-TRANSFORM...		890276	83
INVERSION (RMINV)...REAL MATRIX		890194	83
INVERSION-CMINV...COMPLEX MATRIX		860857	83
INVERSION-RMINV...REAL MATRIX		860855	83
INVERSION,DETERMINANT CALCULATION...MATRIX		890201	83
IO)...NOPRINT,READ AND REREAD PACKAGE (		890334	83
ITH BIT OF A WORD...SET OR DETECT		890264	83
IVH...FORTRAN PRECOMPILER FORT II-FORT		890384	83
I0,I1,K0,K1...BESSEL FUNCTIONS-J0,J1,Y0,Y1		890179	83
I1,K0,K1...BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0		890179	83
JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM...		851137	83
JPL HSDL COUPLER EXERCISER...		850744	83
JPL HSDL TEST PROGRAM...		850743	83
JPL TCP ANALOG EQUIPMENT DEMONSTRATION...		851027	83
JX35 TESTER925...DACC DIAGNOSTIC TEST WITH		851118	83
J0, J1 Y0, Y1...BESSEL FUNCTION		890174	83
J0,J1,Y0,Y1,I0,I1,K0,K1...BESSEL FUNCTIONS		890179	83
J1 Y0, Y1...BESSEL FUNCTION J0,		890174	83
J1,Y0,Y1,I0,I1,K0,K1...BESSEL FUNCTIONS-J0		890179	83
KC MAGNETIC TAPE EXERCISER...15		851145	83
KIND, ORDER ZERO...BESSEL FUNCTION-FIRST		890177	83
KN(X),...BESSEL FUNCTION		890178	83
KU...GO MO		850968	83
KUTTA GILL DIFF. EQU. FLOAT.POINT...RUNGE-		860613	83
KUTTA GILL DIFFERENTIAL EQUATIONS...RUNGE-		860612	83
KUTTA GILL INTEGRATION...HYBRID RUNGE-		860681	83
KUTTA INTEGRATION...RUNGE-		890183	83
KWIC INDEX PROGRAM FOR SIGMA...		860698	83
K0,K1...BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1		890179	83
K1...BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0		890179	83
LABEL AND POSITIONING...TAPE		890342	83
LABEL TRACE POP (160 SYS)...FORTRAN		890308	83
LABEL TRACE ROUTINE, L-FORTRANRAN...		890250	83
LABEL TRACE, MODIFIED 160 SYS...		890301	83
LABEL TRACE, 160SYS...SELECTIVE		890302	83
LABELING...PLOT PACKAGE - NON-		890235	83
LABELING...PLOT PACKAGE WITH		890232	83
LAGRANGE INTERPOLATION...		890185	83
LANG. PRECOMPILER...RPL, A DATA REDUCTION		890286	83
LAT-DIR TIME HISTORY...AIRPLANE		890284	83
LDR...BINARY INPUT-MAGNETIC TAPE ABSOLUTE		850667	83
LEADER GENERATOR...BLANK PAPER TAPE		890223	83
LEAST SQUARE SUBROUTINE, LSQ...		890209	83
LEAST SQUARES POLYNOMIAL...		890187	83
LEGENDRE POLYNOMIAL...		890172	83
LEM...ACCEPT TEST PROG.FOR NASA HOUSTON		860790	83
LEVEL PAPER TAPE TEST...MODEL 9333 7 OR 8		850726	83
LEVEL READER/PUNCH TEST...7/8		860007	83
LGF...FLOATING POINT LOGARITHM -		860625	83
LGFN,LGFT...LOGARITHM (BASE E OR 10)-		860674	83
LGFT...LOGARITHM (BASE E OR 10)-LGFN,		860674	83
LIB. FOR AEROSPACE CORP....HYBRID EXEC.		851064	83
LIB.-BIT HANDLING & I/O...FORTRAN EXTENDER		890310	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
LIBPACK...MONARCH -		850869	83
LIBRARIES...FORT IV COMPILER AND		860035	83
LINEAR CURVE FIT PROGRAM...NON-		890192	83
LINEAR INTERPOLATION (1 ARGUMENT)...		860684	83
LINEAR INTERPOLATION (2 ARGUMENTS)...		860683	83
LINEAR INTERPOLATION (3 ARGUMENTS)...		860682	83
LINEAR INTERPOLATION-1 INDEPENDENT VARI...		850914	83
LINEAR INTERPOLATION-2 INDEPENDENT VARI...		850915	83
LINEAR INTERPOLATION-3 INDEPENDENT VARI...		850916	83
LINEAR PLOT PACKAGE...SEMI-LOG/		890233	83
LINEAR PLOTTING PACKAGE...		890379	83
LINEAR POLYNOMIAL SUBSTITUTION. POLYSUBS..		890164	83
LINEAR REGRESSION ANALYSIS...		890217	83
LINEAR REGRESSION...MULTIPLE		890208	83
LINEPRINTER...CORE DUMP TO UNBUFFERED		890240	83
LINEPRINTER-PLOTTING...GRAPH ROUT FOR THE		890259	83
LINK 0 BOOTSTRAP FOR DRUM...		850707	83
LINKING PROCESSOR-RADLNK...FORTRAN II RAD		890298	83
LINKING SYSTEM...910 FORTRAN DRUM		850862	83
LINKING UNDER MONARCH...DEMONSTRATION OF		850678	83
LIST TAPE ROUTINE...		851144	83
LIST...BINARY PAPER TAPE		850637	83
LIST...FORTRAN TO SYMBOL LANGUAGE RUN-TIME		890253	83
LISTING MOD....910/925 FORTRAN II FAST		850858	83
LISTING OUTPUT SUBR...TYPEWRITER (STD)		890262	83
LISTING OUTPUT...TYPEWRITER (15'CARRIAGE)		890263	83
LISTING SUBROUTINE...LINE PRINTER		890266	83
LITERALS MODIFICATION...FORTRAN HOLLERITH		850967	83
LN-FLOATING-POINT NATURAL LOGARITHM...		851149	83
LNFC...FLOATING POINT COMPLEX LOGARITHM -		860632	83
LOAD...940 DISC DUMP/		870014	83
LOAD)...MONARCH RAD LOADER (		850004	83
LOAD)...MONARCH TAPE LOADER (		850001	83
LOADE...BINARY PAPER TAPE RELOCATING UPPER		851163	83
LOADER (LOAD)...MONARCH RAD		850004	83
LOADER (LOAD)...MONARCH TAPE		850001	83
LOADER (QUBLDR)...UNIVERSAL BINARY		851162	83
LOADER FOR 920/930...SHORT RELOCATING		890663	83
LOADER PATCH FOR UNBUF.PRINT...R.T.FORTRAN		850697	83
LOADER WITH CONSTANTS...ABSOLUTE BINARY		850650	83
LOADER...BASIC 2 CARD RELOCATABLE		860720	83
LOADER...BINARY INPUT ONE CARD		850648	83
LOADER...BINARY INPUT--PAPER TAPE		860716	83
LOADER...BINARY INPUT-BASIC PAPER TAPE		850644	83
LOADER...BINARY INPUT-TWO CARD		850649	83
LOADER...BINARY INPUT-1 CARD ABS.		860721	83
LOADER...BINARY PAPER TAPE BOOTSTRAP		851161	83
LOADER...CARD OR MAG. TAPE UNIVERSAL		860733	83
LOADER...FORTRAN II MODIFICATION		850965	83
LOADER...OCTAL INPUT-ONE CARD		850653	83
LOADER...OCTAL INPUT-1 CARD		860723	83
LOADER...THREE CARD RELOCATABLE		850652	83
LOADER...UNIVERSAL		850645	83
LOADER...UNIVERSAL		860609	83
LOADER...910/925 FORTRAN II MOD.		850812	83
LOADER...9300 PAPER TAPE BASIC RELOCATABLE		860605	83
LOCK-OUT AND POWER FAIL-SAFE TEST...MEMORY		851057	83
LOCK-OUT AND POWER FAIL-SAFE TEST...MEMORY		860758	83
LOG...FL. PT. EXTENDED PRECISION NATURAL		860646	83
LOG/LINEAR PLOT PACKAGE...SEMI-		890233	83
LOGARITHM (BASE E OR 10)-LGFN,LGFT...		860674	83
LOGARITHM - LGF...FLOATING POINT		860625	83
LOGARITHM - LNFC...FLOATING POINT COMPLEX		860632	83
LOGARITHM SUBROUTINE TO BASE E OR 10...		860636	83
LOGARITHM...LN-FLOATING-POINT NATURAL		851149	83
LOGAXIS PLOTTING SUBROUTINE...		890352	83
LOGICAL,BIT, AND CHARACTER MANIPULATION...		890288	83
LOGSCALE...PLOTTING SUBROUTINE		890353	83
LONG CARRIAGE)...FORTRAN II TYPE SUBR. (		850708	83
LSQ...LEAST SQUARE SUBROUTINE,		890209	83
M.T. PAPER TAPE OUTPUT MOD...910/925 F-II		850842	83
MACHINE LANGUAGE LIBRARY (COVER)...		860460	83
MAG TAPE COMPATABILITY PROGRAM...CFE-1 AND		860772	83
MAG TAPE COPY AND VERIFY PROGRAM...		860694	83
MAG TAPE DIAGNOSTICS...9-SERIES		890896	83
MAG TAPE EDITOR...BINARY		860737	83
MAG TAPE EXERCISER...9TK EXTEND MODE MULTI		850755	83
MAG TAPE EXERCISER...9TK EXTEND MODE MULTI		860794	83
MAG TAPE EXERCISER, 4 CHAR. MODE...MTE-3		860764	83
MAG TAPE EXERCISOR 4 CHAR MODE...MTE 3		851056	83
MAG TAPE EXERCISOR...EXTENDED MODE MULTI		860738	83
MAG TAPE EXERCISOR, 3 CHAR MODE...MTE-3		851055	83
MAG TAPE INPUT MOD....920/930 FORTRAN II		850992	83
MAG TAPE OUTPUT MOD....910/925 FORTRAN II		850841	83
MAG TAPE OUTPUT MOD....920/930 FORTRAN II		850998	83
MAG TAPE POSITION ROUTINE...		890294	83
MAG TAPE ROUTINE...A GENERAL		890541	83
MAG TAPE STANDARD FILL SIMULATOR(910/920..		850666	83
MAG TAPE SYS EXERCISER, Y BUF...42KC		850682	83
MAG TAPE TEST-INTERUPT AND INTRLACE...15KC		850673	83
MAG TAPE TO BUFFERED LINE PRINTR...CARD OR		850684	83
MAG TAPE TRANSFORMATION (TRANSFORM)...		860734	83
MAG TAPE...FORTRAN MEMORY SAVE ON		890304	83
MAG TPE/PAPER TPE OUTPUT...920/930 FORT II		850997	83
MAG. TAPE UNIVERSAL LOADER...CARD OR		860733	83
MAG. TAPE...CARD SYMBOLIC INPUT/OPTIONAL		890272	83
MAG. TAPE...READ BLOCKED INPUT FROM		890220	83
MAG....PSI OR TSI SYMBOLIC INPUT/OPTIONAL		890271	83
MAGNETIC TAPE ABSOLUTE LDR...BINARY INPUT-		850667	83
MAGNETIC TAPE COPIER...PAPER TAPE AND		850664	83
MAGNETIC TAPE DUMP...RAD TO		851614	83
MAGNETIC TAPE DUMP...RAD TO		861082	83
MAGNETIC TAPE EDITOR...BASIC SYMBOLIC		850663	83
MAGNETIC TAPE EXER....EXTENDED MODE MULTI-		851113	83
MAGNETIC TAPE EXERCISER...MTE-1		851054	83
MAGNETIC TAPE EXERCISER...MTE-2		851181	83
MAGNETIC TAPE EXERCISER...MULTI-		851171	83
MAGNETIC TAPE EXERCISER...15 KC		851145	83
MAGNETIC TAPE EXERCISER, W BUFFER...42KC		850696	83
MAGNETIC TAPE HANDLER (EXTENDED MODE)...		851112	83
MAGNETIC TAPE HANDLER (MTAPE)...		860732	83
MAGNETIC TAPE I/O ROUTINE...FORTRAN II		890219	83
MAGNETIC TAPE IN FORTRAN...ERASE		890356	83
MAGNETIC TAPE POSITIONING ROUTINES...		890340	83
MAGNETIC TAPE PROGRAM...CORE DUMP TO		890239	83
MAGNETIC TAPE SUBROUTINE (MTAPE)...		851169	83
MAGNETIC TAPE SYSTEM EXERCISER...MULTI-		850678	83
MAGNETIC TAPE SYSTEM EXERCISER-15KC...		850674	83
MAGNETIC TAPE TEST PROGRAM FOR 925/930...		851114	83
MAGNETIC TAPE TEST PROGRAM Y BUFFER...42KC		850681	83
MAGNETIC TAPE TEST PROGRAM...		851170	83
MAGNETIC TAPE TEST PROGRAM...		860739	83
MAGNETIC TAPE TEST PROGRAM...		890885	83
MAGNETIC TAPE TEST PROGRAM...9 TRACK		851134	83
MAGNETIC TAPE TEST PROGRAM...9-TRACK		860787	83
MAGNETIC TAPE TEST PROGRAM...9TRACK		860793	83
MAGNETIC TAPE TEST PROGRAM,W BUFFER...42KC		850695	83
MAGNETIC TAPE TEST...15KC		850675	83
MAGNETIC TAPE...COUNT FILES/RECORDS ON		890341	83
MAGNETIC TAPE...EDIT (SERVICE PROGRAM) FOR		890542	83
MAGNETIC TP EXERCISER,2 TP SYTM-15KC...		850679	83
MAGTP...		890983	83
MAIN-FRAME DIAGNOSTIC)...DIAGNOSTIC (		851154	83
MAKE ROUTINE...9300 STAND-ALONE SYSTEM-		860892	83
MANAGE SYSTEM (COVER)...		851220	83
MANAGE SYSTEM (COVER)...9300		860475	83
MANAGEMENT SYSTEM (CPM) COVER...PROJECT		850181	83
MANAGEMENT SYSTEM (CPM) COVER...PROJECT		850362	83
MANAGEMENT SYSTEM (CPM) COVER...PROJECT		860592	83
MANIPULATION...LOGICAL,BIT, AND CHARACTER		890288	83
MAP DISC...940		870012	83
MARS ATMOSPHERE ROUTINE(198...U.S.STANDARD		890281	83
MATHEMATICAL COMPILER...ON-LINE		890287	83
MATRIX (FLAG PACKING)...BOOLIAN		890199	83
MATRIX ADDITION (RMADD)...REAL		890197	83
MATRIX ADDITION-CMADD...COMPLEX		860658	83
MATRIX ADDITION-RMADD...REAL		860651	83
MATRIX INVERSION (RMINV)...REAL		890194	83
MATRIX INVERSION-CMINV...COMPLEX		860657	83
MATRIX INVERSION-RMINV...REAL		860655	83
MATRIX INVERSION,DETERMINANT CALCULATION..		890201	83
MATRIX MULTIPLICATION...		890193	83
MATRIX MULTIPLICATION-CMMUL...COMPLEX		860658	83
MATRIX MULTIPLY (RMMUL)...REAL		890195	83
MATRIX MULTIPLY-RMMUL...REAL		860654	83
MATRIX PACKAGE FOR ARITHMETIC OPERATIONS..		890204	83
MATRIX SUBTRACTION - RMSUB...REAL		860652	83
MATRIX SUBTRACTION(RMSUB)...REAL		890198	83
MATRIX SUBTRACTION-CMSUB...COMPLEX		860659	83
MATRIX TRANSPOSE (RMTRA)...REAL		890196	83
MATRIX TRANSPOSE-CMTRA...COMPLEX		860660	83
MATRIX TRANSPOSE-RMTRA...REAL		860653	83
MEDIA CONVERSION ROUTINE...		850642	83
MEDIA...		860563	83
MEMORY ACCESS DIAGNOSTIC PROGRAM...		870001	83
MEMORY ADDRESS TEST...		870006	83
MEMORY ADDRESSING TEST...930 BIG		851052	83
MEMORY BINARY COPY ROUTINE...DRUM, P.T.		850704	83
MEMORY CLEAR - BOOTSTRAP...SELECTIVE		850625	83
MEMORY DIAGNOSTIC PROGRAM...		870002	83
MEMORY DIAGNOSTIC...		850672	83
MEMORY DIAGNOSTIC...		860663	83
MEMORY DIAGNOSTIC...BIG		860696	83
MEMORY DIAGNOSTIC...2-4K		851155	83
MEMORY DIAGNOSTIC...8-16-32K		851158	83
MEMORY DIAGNOSTIC...925		851101	83
MEMORY DIAGNOSTIC...930 EXAMINER		851049	83
MEMORY DUMP (PRINTER)...ONE CARD OCTAL		860641	83
MEMORY DUMP (TYPEWRITER)...ONE CARD OCTAL		860722	83
MEMORY DUMP FOR 9372 PRINTER...		890252	83
MEMORY DUMP...BUFFERED LINE PRINTER		850683	83
MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST..		851057	83

KEY	TITLE	CAT.NO	CL
MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST..		860758	03
MEMORY SAVE ON MAG TAPE...FORTRAN		890304	03
MEMORY SAVE...FORTRAN II		850638	03
MEMORY TEST FOR THE 3RD 16K 3.0...UNIT 4		870034	03
MEMORY TEST FOR THE 4TH 16K 3.0...UNIT 5		870035	03
MEMORY TEST PROGRAM...9161 DRUM		850716	03
MEMORY TESTS FOR THE 2ND 16K 3.0...UNIT3		870033	03
MEMORY TO LINE PRINTER OCTAL DUMP...		851176	03
MEMORY TYPE-OUT, REDUNDANCY ELIMINATION...		850628	03
MEMORY...ZERO		850624	03
MERGE (COVER)...SORT/		860740	03
MERGE (COVER)...910/925 SORT		850848	03
MERGE (COVER)...920/930 SORT		851006	03
MERGE...		860742	03
MERGE-EXCHANGE...SORT-MODIFIED SHELL		890336	03
META-SYMBOL ASSEMB. COMMON SOFTWARE PKG...		850065	03
META-SYMBOL ASSEMBLER-COVER...		860075	03
META-SYMBOL PROC93CP...		850090	03
METHOD...FREQUENCY BY PRONY'S		890189	03
MINIMIZATION ROUTINE - FPMIN...GRADIENT		890180	03
MNEMONIC TABLE...XDS 920/930 SYMBOL		890243	03
MO KU...GO		850968	03
MOD.9157(INTERLACE)...CARD PUNCH TEST PROG		850659	03
MODE I/O TEST PROGRAM...EXTENDED		851107	03
MODE I/O TEST PROGRAM...EXTENDED		860718	03
MODE MULTI MAG TAPE EXERCISOR...EXTENDED		860738	03
MODE MULTI-MAG TAPE EXERCISER...9TK EXTEND		850755	03
MODE MULTI-MAG TAPE EXERCISER...9TK EXTEND		860794	03
MODE MULTI-MAGNETIC TAPE EXER....EXTENDED		851113	03
MODE...MTE 3 MAG TAPE EXERCISOR 4 CHAR		851056	03
MODE...MTE-3 MAG TAPE EXERCISER, 4 CHAR.		860764	03
MODE...MTE-3 MAG TAPE EXERCISOR, 3 CHAR		851055	03
MODE)...MAGNETIC TAPE HANDLER (EXTENDED		851112	03
MODEL ATMOSPHERE...U.S.STANDARD EARTH		890279	03
MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST...		850726	03
MODEL 9367-A 925/...TEST PROGRAM DISC FILE		851130	03
MODEL 9372 UNBUFFERED LINE PRINTER SUBR...		860749	03
MODEL 9372 UNBUFFERED LINE PRINTER TEST...		860755	03
MODIFIED SHELL MERGE-EXCHANGE...SORT-		890336	03
MODIFIED 160 SYS...LABEL TRACE,		890301	03
MOL SYS. CHECK OUT PROG...GENERAL ELECTRIC		860789	03
MOL SYS. CHECK OUT PROGRAM...DOUGLAS		860788	03
MONARCH - LIBPACK...		850669	03
MONARCH CORP...		851292	03
MONARCH COMMON SOFTWARE PACKAGE...		850000	03
MONARCH FOR UNBUFFERED PRINTER...910/925		851258	03
MONARCH FOR UNBUFFERED PRINTER...920/930		851259	03
MONARCH FOR UNBUFFERED PRINTER...925 RAD		851260	03
MONARCH FOR UNBUFFERED PRINTER...930 RAD		851261	03
MONARCH LIBRARY COMMON SOFTWARE PACKAGE...		850095	03
MONARCH MPRNT (UNBUF)...		851290	03
MONARCH MTAPE...		851294	03
MONARCH PRINT (UNBUF)...		851291	03
MONARCH PRINT...		851295	03
MONARCH PTYIO...		851293	03
MONARCH RAD LOADER (LOAD)...		850004	03
MONARCH SYS. UPDATE FOR UNBUFFERED PRINT..		860750	03
MONARCH SYSTEM (COVER)...		860530	03
MONARCH SYSTEM UPDATE...		890540	03
MONARCH SYSTEM...910/925 TAPE		850035	03
MONARCH SYSTEM...920/930 TAPE		850037	03
MONARCH SYSTEM...925 RAD		850036	03
MONARCH SYSTEM...930 RAD		850038	03
MONARCH TAPE LOADER (LOAD)...		850001	03
MONARCH...BOOTSTRAP GENERATOR FOR RAD		850023	03
MONARCH...DEMONSTRATION OF LINKING UNDER		850678	03
MONARCH...PURGE FOR RAD		850022	03
MONARCH...SYSGEN 2 - 800		890842	03
MONITOR INPUT/OUTPUT PACKAGE-QUINOUT...		890246	03
MONITOR PROGRAM...SAM9300-SELECTIVE AUTO		890882	03
MONITOR SYSTEM (COVER)...TAPE		860000	03
MONITOR...OLDS3.0 CONTROL		870029	03
MONITOR...REAL-TIME		861000	03
MONITOR...SINE WAVE		890190	03
MONITOR...925/930 REAL-TIME		851500	03
MONITOR...940 TIME SHARING SYSTEM		870017	03
MONITOR,EXEC, AND PROCESSORS (CO...940 TSS		870025	03
MOSELEY PLOTTER TEST PROGRAM...		850706	03
MOULTON DIFF. EQUATIONS...HYBRID ADAMS-		860685	03
MOULTON DIFFERENTIAL EQUATIONS...ADAMS-		860615	03
MOULTON SOLN ORDINARY DIFF. EQUATI...ADAMS		860690	03
MPRNT (UNBUF)...MONARCH		851290	03
MTAPE...		890964	03
MTAPE...MONARCH		851294	03
MTAPE)...MAGNETIC TAPE HANDLER (		860732	03
MTAPE)...MAGNETIC TAPE SUBROUTINE (		851169	03
MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE...		851056	03
MTE-1 MAGNETIC TAPE EXERCISER...		851054	03
MTE-2 MAGNETIC TAPE EXERCISER...		851181	03
MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE...		860764	03
MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE...		851055	03
MUA INSTRUCTION...MUASIM -SIMULATED		851591	03
MUASIM -SIMULATED MUA INSTRUCTION...		851591	03
MUB INSTRUCTION...MUBSIM -SIMULATED		851592	03
MUBSIM -SIMULATED MUB INSTRUCTION...		851592	03
MULTI MAG TAPE EXERCISOR...EXTENDED MODE		860738	03
MULTI-MAG TAPE EXERCISER...9TK EXTEND MODE		850755	03
MULTI-MAG TAPE EXERCISER...9TK EXTEND MODE		860794	03
MULTI-MAGNETIC TAPE EXER....EXTENDED MODE		851113	03
MULTI-MAGNETIC TAPE EXERCISER...		851171	03
MULTI-MAGNETIC TAPE SYSTEM EXERCISER...		850676	03
MULTIPLE LINEAR REGRESSION...		890208	03
MULTIPLEX CHANNEL TEST 925/930...DATA		851115	03
MULTIPLEX CHANNEL TEST...DATA		860744	03
MULTIPLICATION...MATRIX		890193	03
MULTIPLICATION-CMMUL...COMPLEX MATRIX		860658	03
MULTIPLY (RMMUL)...REAL MATRIX		890195	03
MULTIPLY SUBROUTINE-DPM...DOUBLE PRECISION		860621	03
MULTIPLY-RMMUL...REAL MATRIX		860654	03
MUSIC - FOR 910/920...		890688	03
MUSIC BOX...		890307	03
NAA DES-1 HYBRID CALL LIBRARY...		860799	03
NAA SYSTEM...DES-1 SYSGEN FOR		860791	03
NASA EDWARDS HYBRID EXECUTION LIBRARY...		860798	03
NASA EDWARDS INTERFACE TEST...		860795	03
NASA HOUSTON LEM...ACCEPT TEST PROG.FOR		860790	03
NATURAL GAS...SUPERCOMPRESSIBILITY FACTORS		890207	03
NATURAL LOG...FL. PT. EXTENDED PRECISION		860648	03
NATURAL LOGARITHM...LN-FLOATING-POINT		851149	03
NAV.TOR.STA.SYS.,ADD-ON)...EXT.I/O TEST (		851299	03
NAVAL TORPEDO STATION...ARRAYS PROGRAM FOR		851579	03
NEGATE SUBROUTINE - FLN...FLOATING		860818	03
NEGATE SUBROUTINE...FLN -FLOATING		851588	03
NIM...WINNIM - PROGRAM TO PLAY		890291	03
NODE OPTIMIZATION ROUTINE...		890525	03
NON-LABELING...PLOT PACKAGE -		890235	03
NON-LINEAR CURVE FIT PROGRAM...		890192	03
NOPRINT,READ AND REREAD PACKAGE (IO)...		890334	03
NORMAL PROBABILITY INTEGRAL...GAUSSIAN		890208	03
NORMAL PROBABILITY ORDINATE...GAUSSIAN		890205	03
NORMALIZE SUBROUTINE...NORMZ -FLOATING		851593	03
NORMZ -FLOATING NORMALIZE SUBROUTINE...		851593	03
NORTH AMERICAN AVIATION HYBRID EXECUTIVE..		860798	03
NORTH AMERICAN HYBRID INTERFACE TEST...		860797	03
NORTH AMERICAN...SPECIAL ACCEPT. TESTS FOR		860773	03
NOTES COVER...9-SERIES SOFTWARE		852000	03
NOVA SIMULATOR...16K DGC		890886	03
NSC-II TEST FOR GD/C ATS...ANALOG/		851616	03
NUM. GEN. TEST PROGRAM...BOEING RANDOM		860777	03
NUMBER ASGNT.+P.T.UPDATING ROUTINES...SEQ.		850687	03
NUMBER GENERATOR (RANDX)...PSEUDO-RANDOM		890214	03
NUMBER GENERATOR...RANDOM		890211	03
NUMBER GENERATOR...UNCORRELATED RANDOM		890213	03
NUMBER GENERATOR, RANDU...RANDOM		890212	03
NUMBER SUBROUTINE (RAND)...PSEUDO-RANDOM		890215	03
NUMBER SUBROUTINE (IRAND)...PSEUDO-RANDOM		890210	03
NUMERIC DATA...BCD CONVERSION OF		890355	03
OCTAL DUMP SUBROUTINE...REAL TIME FORTRAN		890251	03
OCTAL DUMP...MEMORY TO LINE PRINTER		851178	03
OCTAL INPUT-ONE CARD LOADER...		850853	03
OCTAL INPUT-1 CARD LOADER...		860723	03
OCTAL MEMORY DUMP (PRINTER)...ONE CARD		860641	03
OCTAL MEMORY DUMP (TYPEWRITER)...ONE CARD		860722	03
OFF-LINE PRINTER TEST...		850692	03
OLDS DIAGNOSTIC SYSTEM (COVER)...940		870042	03
OLDS3.0 CONTROL MONITOR...		870029	03
OPERATION, FLGPO...SINGLE INSTRUCTION FLAG		890257	03
OPERATIONS...MATRIX PACKAGE FOR ARITHMETIC		890204	03
OPERATOR PACKAGE (COVER)...910/925 PROGRAM		850785	03
OPERATOR PACKAGE...920/930 PROGRAMMED		850919	03
OPERATOR'S EXECUTIVE...940		870011	03
OPT PUNCH FOR INPUT TABLCON...QUBLDR DO-		890539	03
OPTIMIZATION ROUTINE...NODE		890525	03
OPTIMIZER...PATTERN		890188	03
OPTIONAL MAG. TAPE...CARD SYMBOLIC INPUT/		890272	03
OPTIONAL MAG....PSI OR TSI SYMBOLIC INPUT/		890271	03
ORDER ZERO...BESSEL FUNCTION-FIRST KIND,		890177	03
ORDINARY DIFF. EQUATI...ADAMS-MOULTON SOLN		860690	03
ORDINATE...GAUSSIAN NORMAL PROBABILITY		890205	03
ORIENTED FUNCTION & SUBROUTINE...WORD/BIT		890332	03
OSCILLOSCOPE DISPLAY ROUTINE...		890225	03
OSCILLOSCOPE DISPLAY ROUTINE...		890242	03
OUT AND POWER FAIL-SAFE TEST...MEMORY LOCK		851057	03
OUT AND POWER FAIL-SAFE TEST...MEMORY LOCK		860758	03
OUT PROG...GENERAL ELECTRIC MOL SYS. CHECK		860789	03
OUT PROGRAM...DOUGLAS MOL SYS. CHECK		860788	03
OUT, REDUNDANCY ELIMINATION...MEMORY TYPE-		850628	03
P. EXTENDED PRECISION SIN (COS)-SNFE...F.		860647	03
P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)...F.		860873	03
P.T. MEMORY BINARY COPY ROUTINE...DRUM,		850704	03
P.T.COPY ROUTINE...FORTRAN SOURCE CARDS TO		850641	03
PACKING AND UNPACKING OF FLOATING POINT...		890337	03

KEY	TITLE	CAT.NO	CL
PACKING)...BOOLIAN MATRIX (FLAG		890199	83
PAGE TEST ROUTINE...END-OF-		890339	83
PAPER TAPE - TYPEWRITER HANDLER 925/930...		851106	83
PAPER TAPE AND MAGNETIC TAPE COPIER...		850664	83
PAPER TAPE AND TYPEWRITER SUBROUTINE...		860648	83
PAPER TAPE BASIC RELOCATABLE LOADER...9300		860605	83
PAPER TAPE BOOTSTRAP + GENERATOR...BINARY		850634	83
PAPER TAPE BOOTSTRAP LOADER...BINARY		851161	83
PAPER TAPE DUPLICATOR...		890296	83
PAPER TAPE EDITOR...XDS 92		890274	83
PAPER TAPE INPT MOD...920/930 FORT II CARD		850989	83
PAPER TAPE LEADER GENERATOR...BLANK		890223	83
PAPER TAPE LIST...BINARY		850637	83
PAPER TAPE LOADER...BINARY INPUT--		860716	83
PAPER TAPE LOADER...BINARY INPUT-BASIC		850644	83
PAPER TAPE OR CARDS...BINARY DUMP		860608	83
PAPER TAPE OR CARDS...BINARY DUMP,		850643	83
PAPER TAPE OUTPUT MOD...910/925 F-II M.T.		850842	83
PAPER TAPE PHOTO-READER TEST PROGRAM...		850639	83
PAPER TAPE PUNCH TEST...900		851623	83
PAPER TAPE PUNCH-READ TEST...SPECIAL		860761	83
PAPER TAPE READER TEST...		851166	83
PAPER TAPE RELOCATING BOOTSTRAP...BINARY		851160	83
PAPER TAPE RELOCATING UPPER LOADE...BINARY		851163	83
PAPER TAPE REPRODUCER PROGRAM...		850626	83
PAPER TAPE TEST...MODEL 9333 7 OR 8 LEVEL		850726	83
PAPER TAPE+TYPEWRITER SUBROUTINE(PTYIO)...		851159	83
PAPER TPE OUTPUT...920/930 FORT II MAG TPE		850997	83
PATCH FOR UNBUF.PRINT...R.T.FORTRAN LOADER		850697	83
PATCH...		860774	83
PATCH, PROGRAMMED ANALOG TOTAL CHECK...		850741	83
PATH PROGRAM...BASIC CRITICAL		890278	83
PATTERN OPTIMIZER...		890168	83
PAYROLL GENERATOR PROGRAM...		860743	83
PAYROLL GENERATOR...		851010	83
PERIODIC FUNCTIONS...FOURIER COEFFICIENTS		890188	83
PHOTO READER TEST PROGRAM...		850655	83
PHOTO-READER TEST PROGRAM...		860719	83
PHOTO-READER TEST PROGRAM...PAPER TAPE		850639	83
PINT 910-BUFFERED PRINT...XDS		850831	83
PINT 920/930 BUFFERED PRINT...		850985	83
PINT 920/930 UNBUFFERED PRINT...		850986	83
PINT-UNBUFFERED PRINT...XDS 910		850832	83
PKG....920/930 FORTRAN-II COMMON SOFTWARE		850315	83
PKG....920/930 R/T FORTRAN COMMON SOFTWARE		850480	83
PKG...META-SYMBOL ASSEMB. COMMON SOFTWARE		850065	83
PKG...REAL-TIME FORTRAN COMMON SOFTWARE		850400	83
PKGE, FLPT92...FLOATING POINT ARITHMETIC		851597	83
PLAY NIM...WINNIM - PROGRAM TO		890291	83
PLOT (24 VECTOR) PLOTTING PACKAGE...		890331	83
PLOT '8 VECTOR' PLOTTING PACKAGE...		890330	83
PLOT LINE PRINTER-HSTPLOT...HISTOGRAPH		890290	83
PLOT PACKAGE - NON-LABELING...		890235	83
PLOT PACKAGE FOR XDS 9175 PLOTTER...		890226	83
PLOT PACKAGE SPECIAL CHART A03...		890234	83
PLOT PACKAGE WITH LABELING...		890232	83
PLOT PACKAGE...POLAR		890236	83
PLOT PACKAGE...SEMI-LOG/LINEAR		890233	83
PLOT ROUTINES...940 TELETYPE		890524	83
PLOTTER ROUTINE FOR ON-LINE PRINTER...		890346	83
PLOTTER ROUTINE...FORTRAN CALCOMP		890241	83
PLOTTER SUBROUTINE PACKAGE...CALCOMP		890237	83
PLOTTER SUBROUTING BLOWUP...		890344	83
PLOTTER TEST PROGRAM...MOSELEY		850706	83
PLOTTER TEST...		860757	83
PLOTTER TEST...CALCOMP		850699	83
PLOTTER...PLOT PACKAGE FOR XDS 9175		890226	83
PLOTTER...SUBROUTINE DASHPLOT		890378	83
PLOTTERTER...GENERAL GRAPHIC GENERA-		890228	83
PLOTTING PACKAGE...GENERAL		890350	83
PLOTTING PACKAGE...LINE PRINTER		890258	83
PLOTTING PACKAGE...LINEAR		890379	83
PLOTTING PACKAGE...PLOT (24 VECTOR)		890331	83
PLOTTING PACKAGE...PLOT '8 VECTOR'		890330	83
PLOTTING PACKAGE...REVERSE SEMILOG		890348	83
PLOTTING PACKAGE...SEMILOG		890351	83
PLOTTING ROUTINE...ALPHAXIS		890380	83
PLOTTING ROUTINE...LINE PRINTER		890289	83
PLOTTING ROUTINE, SCOPL-2...SCOOP TAPE		890227	83
PLOTTING ROUTINES...SEMILOG		890329	83
PLOTTING SUBROUTINE LOGSCALE...		890353	83
PLOTTING SUBROUTINE...LOGAXIS		890352	83
PLOTTING...GRAPH ROUT FOR THE LINEPRINTER-		890259	83
PLOTTING...GRAPH ROUTINES FOR LINE PRINTER		890260	83
PLOTTING...UNIVERSAL GRAPHIC PACKAGE-CRT4-		890297	83
POLAR PLOT PACKAGE...		890236	83
POLYDIV...POLYNOMIAL DIVISION,		890163	83
POLYNOMIAL ADDITION OR SUBTRACTION...		890161	83
POLYNOMIAL CURVE FIT...		890186	83
POLYNOMIAL DIVISION, POLYDIV...		890163	83
POLYNOMIAL EVALUATION (COMPLEX ARGUMENT)..		860614	83
POLYNOMIAL PRODUCT...		890162	83
POLYNOMIAL SUBSTITUTION. POLYSUBS...LINEAR		890164	83
POLYNOMIAL SUBSTITUTION...RATIONAL		890165	83
POLYNOMIAL TELESCOPER...		860697	83
POLYNOMIAL...LEAST SQUARES		890187	83
POLYNOMIAL...LEGENDRE		890172	83
POLYNOMIAL...SERIES EXPANSION OF RATIONAL		890168	83
POLYNOMIALS...ROOTS OF		890170	83
POLYSUBS...LINEAR POLYNOMIAL SUBSTITUTION.		890164	83
POP (160 SYS)...FORTRAN LABEL TRACE		890308	83
POP...DOUBLE PRECISION FLOATING POINT		851047	83
POP-SELF F...HIGH SPEED 4 DIGIT BIN TO DEC		850803	83
POP-SELF FILLING...HIGH SPEED ARCTANGENT		850805	83
POP-SELF FILLING...HIGH SPEED SIN-COS		850804	83
POSITION ROUTINE...MAG TAPE		890294	83
POSITIONING ROUTINES...MAGNETIC TAPE		890340	83
POSITIONING...TAPE LABEL AND		890342	83
POWER FAIL-SAFE INTERRUPT TESTER...		850720	83
POWER FAIL-SAFE TEST...		851186	83
POWER FAIL-SAFE TEST...MEMORY LOCK-OUT AND		851057	83
POWER FAIL-SAFE TEST...MEMORY LOCK-OUT AND		860758	83
PRECOMPILER FORT II-FORT IVH...FORTRAN		890384	83
PRECOMPILER...RPL, A DATA REDUCTION LANG.		890288	83
PREDICTOR...HYBRID 2-POINT		860687	83
PREDICTOR...HYBRID 4-POINT		860688	83
PRIN...MOD. 9372 UNBUF. LINE PRINTER.SUBR.		851178	83
PRINCIPAL AXES FACTOR ANALYSIS...		890203	83
PRINT (UNBUF)...MONARCH		851291	83
PRINT OUTPUT SUBR...SYMBOL 9372 UNBUFFERED		860751	83
PRINT ROUTINE,PRNLN...ON-LINE		890229	83
PRINT SUBROUTINE...FAST FORTRAN		890224	83
PRINT...MONARCH		851295	83
PRINT...MONARCH SYS. UPDATE FOR UNBUFFERED		860750	83
PRINT...PINT 920/930 BUFFERED		850985	83
PRINT...PINT 920/930 UNBUFFERED		850986	83
PRINT...XDS PINT 910-BUFFERED		850831	83
PRINT...XDS 910 PINT-UNBUFFERED		850832	83
PRINT)...LINE PRINTER SUBROUTINE (		851177	83
PRINT)...LINE PRINTER SUBROUTINE (		860752	83
PRINT)...925/930 LINE PRINTER SUBROUTINE (		851121	83
PRINTER DIAG...9379/9171 BUFFERED LINE		860754	83
PRINTER DIAGNOSTIC 925/930...9174/9179		851122	83
PRINTER DIAGNOSTIC 925/930...9379		851123	83
PRINTER DIAGNOSTIC...		860753	83
PRINTER DIAGNOSTIC...BUFFERED		850693	83
PRINTER DIAGNOSTIC...MOD. 9372 UNBUF.LINE		851179	83
PRINTER DIAGNOSTIC...9379		860792	83
PRINTER LISTING SUBROUTINE...LINE		890266	83
PRINTER MEMORY DUMP...BUFFERED LINE		850683	83
PRINTER MOD....910 SYMBOL 4 BUF. LINE		851599	83
PRINTER MOD...910 SYMBOL 4 UNBUF. LINE		851600	83
PRINTER MOD...910/920 SYMBOL 4 UNBUF.		851603	83
PRINTER MOD...920 SYMBOL 4 BUF. LINE		851605	83
PRINTER MOD...920 SYMBOL 4 UNBUF. LINE		851606	83
PRINTER MOD...920/910 SYMBOL 4 BUF. LINE		851609	83
PRINTER MOD...920/910 SYMBOL 4 UNBUF.		851610	83
PRINTER MODIFICATION...FORTRAN BUFFERED		851015	83
PRINTER OCTAL DUMP...MEMORY TO LINE		851176	83
PRINTER PLOTTING PACKAGE...LINE		890258	83
PRINTER PLOTTING ROUTINE...LINE		890289	83
PRINTER SUBR...MODEL 9372 UNBUFFERED LINE		860749	83
PRINTER SUBROUTINE (PRINT)...LINE		851177	83
PRINTER SUBROUTINE (PRINT)...LINE		860752	83
PRINTER SUBROUTINE (PRINT)...925/930 LINE		851121	83
PRINTER SUBROUTINE...PRINTX-		890529	83
PRINTER TEST PROGRAM...BUFFERED LINE		850691	83
PRINTER TEST PROGRAM...FRANKLIN		850722	83
PRINTER TEST PROGRAM...UNBUFFERED LINE		850712	83
PRINTER TEST 925/93...9372 UNBUFFERED LINE		851124	83
PRINTER TEST...MODEL 9372 UNBUFFERED LINE		860755	83
PRINTER TEST...OFF-LINE		850692	83
PRINTER TEST...UNBUFFERED LINE		850694	83
PRINTER TRACE...BUFFERED LINE		851012	83
PRINTER UTILITY PROGRAM...		890268	83
PRINTER VERSION...920/930 SYMBOL 8 BUF.		851611	83
PRINTER VERSION...920/930 SYMBOL 8 UNBUF.		851612	83
PRINTER...MEMORY DUMP FOR 9372		890252	83
PRINTER...PLOTTER ROUTINE FOR ON-LINE		890346	83
PRINTER...910 SYMBOL 4 TABLE		851601	83
PRINTER...910/925 MONARCH FOR UNBUFFERED		851258	83
PRINTER...920 SYMBOL 4 TABLE		851607	83
PRINTER...920/930 MONARCH FOR UNBUFFERED		851259	83
PRINTER...925 RAD MONARCH FOR UNBUFFERED		851260	83
PRINTER...930 RAD MONARCH FOR UNBUFFERED		851281	83
PRINTER.SUBR.(PRIN...MOD. 9372 UNBUF. LINE		851178	83
PRINTER)...ONE CARD OCTAL MEMORY DUMP (		860641	83
PRINTER-HSTPLOT...HISTOGRAPH PLOT LINE		890290	83
PRINTER-PLOTTING...GRAPH ROUTINES FOR LINE		890260	83
PRINTR...CARD OR MAG TAPE TO BUFFERED LINE		850684	83
PRINTX-PRINTER SUBROUTINE...		890529	83
PRIORITY INTERRUPT SOURCE TEST...		850735	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
PRIORITY INTERRUPT TEST ROUTINE...SPECIAL		860759	03
PRIORITY INTERRUPT TEST...		850711	03
PRNLN...ON-LINE PRINT ROUTINE,		890229	03
PROBABILITY FUNCTIONS - ERRF, ZGAUSSF, P..		890347	03
PROBABILITY INTEGRAL...GAUSSIAN NORMAL		890206	03
PROBABILITY ORDINATE...GAUSSIAN NORMAL		890205	03
PROCEDURE DECK...92		850677	03
PROCESSOR-RADLNK...FORTRAN II RAD LINKING		890298	03
PROCESSORS (CO...940 TSS MONITOR,EXEC, AND		870025	03
PROC93CP...META-SYMBOL		850090	03
PRODUCT...POLYNOMIAL		890162	03
PROG.FOR NASA HOUSTON LEM...ACCEPT TEST		860790	03
PROGRA...INTERRUPT ARM-DISARM FEATURE TEST		860769	03
PROGRAMMED ANALOG TOTAL CHECK...PATCH,		850741	03
PROGRAMMED FLOATING POINT PACKAGE-FLPT...		860617	03
PROGRAMMED OPERATOR PACKAGE...920/930		850919	03
PROGRAMS...CROSS REFERENCE FOR FORTRAN		890586	03
PROGRAMS...940 TSS USERS UTILITY		870026	03
PROJECT MANAGEMENT SYSTEM (CPM) COVER...		850161	03
PROJECT MANAGEMENT SYSTEM (CPM) COVER...		850362	03
PROJECT MANAGEMENT SYSTEM (CPM) COVER...		860592	03
PRONY'S METHOD...FREQUENCY BY		890189	03
PRT. COMPILER MOD...920/930 RTF II INBUF.		851014	03
PRT. DIAGNOSTIC 9379/9171...BUFFERED LINE		851180	03
PRT. LIB ROUT....ALGOL 60 EXT'D UNBUF LINE		850690	03
PRT. MOD....910/925 FORTRAN II BUFFERED		850857	03
PRT....920/930 FORTRAN II COMPILER UNBUF.		851017	03
PRTR.MOD....910/925 FORTRAN II UNBUFFERED		850859	03
PSEUDO-RANDOM NUMBER GENERATOR (RANDX)...		890214	03
PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)...		890215	03
PSEUDO-RANDOM NUMBER SUBROUTINE (1RAND)...		890210	03
PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG....		890271	03
PT.EXTENDED PRECISION EXPONENTIAL...FL.		860642	03
PTYIO...MONARCH		851293	03
PTYIO)...PAPER TAPE+TYPEWRITER SUBROUTINE(		851159	03
PUNCHX PUNCH SUBROUTINE...		890530	03
PURGE FOR RAD MONARCH...		850022	03
QED...940		870019	03
QUBLDR DO-OPT PUNCH FOR INPUT TABLCON...		890539	03
QUBLDR)...UNIVERSAL BINARY LOADER (		851162	03
QUINOUT...MONITOR INPUT/OUTPUT PACKAGE-		890246	03
R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT..		850697	03
RADIANS)...ARCSINE,ARCCOSINE (DEGREES-		860676	03
RADIANS)...TANGENT-TANX,TANDX(DEGREES OR		860680	03
RADLNK...FORTRAN II RAD LINKING PROCESSOR-		890298	03
RAND)...PSEUDO-RANDOM NUMBER SUBROUTINE (		890215	03
RANDOM NUM. GEN. TEST PROGRAM...BOEING		860777	03
RANDOM NUMBER GENERATOR (RANDX)...PSEUDO-		890214	03
RANDOM NUMBER GENERATOR...		890211	03
RANDOM NUMBER GENERATOR...UNCORRELATED		890213	03
RANDOM NUMBER GENERATOR, RANDU...		890212	03
RANDOM NUMBER SUBROUTINE (RAND)...PSEUDO-		890215	03
RANDOM NUMBER SUBROUTINE (1RAND)...PSEUDO-		890210	03
RANDU...RANDOM NUMBER GENERATOR,		890212	03
RANDX)...PSEUDO-RANDOM NUMBER GENERATOR (		890214	03
RANGE COMPUTE...SATFIX-SATELLITE ANGLE &		890664	03
RATIONAL POLYNOMIAL SUBSTITUTION...		890165	03
RATIONAL POLYNOMIAL...SERIES EXPANSION OF		890166	03
RAY TUBE DISPLAY TEST PROG....9158 CATHODE		850724	03
RAY TUBE DISPLAY UNIT/S RE1...9185 CATHODE		850727	03
RAYTUBE DISPLAY SYSTEM TEST...CATHODE		860762	03
READ AND REREAD PACKAGE (IO)...NOPRINT,		890334	03
READ AND WRITE TAPE ROUTINES....FORTRAN		890335	03
READ BLOCKED INPUT FROM MAG. TAPE...		890220	03
READ HANDLER (CDR)...CARD		851167	03
READ SUBROUTINE (CDR)...CARD		851109	03
READ SUBROUTINE (216 SYS)...FORTRAN CARD		890308	03
READ SUBROUTINE - CDR...CARD		860726	03
READ TEST...SPECIAL PAPER TAPE PUNCH-		860761	03
READ/PUNCH TEST PROGRAM...1622 CARD		850717	03
READ/WRITE MODIFICATION...FORTRAN II DRUM		850864	03
READ/WRITE STATEMENTS...FORTRAN DRUM		851026	03
RECON)...ENCODED TO SYMBOLIC RECONSTRUCTOR		850647	03
RECONSTRUCTOR(RECON)...ENCODED TO SYMBOLIC		850647	03
RECORDS ON MAGNETIC TAPE...COUNT FILES/		890341	03
RECTANGULAR INTEGRATION...HYBRID		860086	03
REDUCTION LANG. PRECOMPILER...RPL, A DATA		890286	03
REDUNDANCY ELIMINATION...MEMORY TYPE-OUT,		850628	03
REFERENCE FOR FORTRAN PROGRAMS...CROSS		890586	03
REGEN-A BINARY TO SYMBOLIC TRANSLATOR...		890548	03
REGISTER TESTER...P + S		850702	03
REGISTER TESTER...P AND S		860665	03
REGISTER TESTER...925 P-AND-S		851103	03
REGISTER TESTER...930 EXAMINER P AND S		851051	03
REGISTERS...SHIFT ROUTINE FOR A AND B		890254	03
REGRESSION ANALYSIS...LINEAR		890217	03
REGRESSION...MULTIPLE LINEAR		890208	03
RELOCATABLE LOADER...BASIC 2 CARD		860720	03
RELOCATABLE LOADER...THREE CARD		850652	03
RELOCATABLE LOADER...9300 PAPER TAPE BASIC		860605	03
RELOCATING BOOTSTRAP...BINARY PAPER TAPE		851180	03
RELOCATING LOADER FOR 920/930...SHORT		890683	03
RELOCATING UPPER LOADE...BINARY PAPER TAPE		851183	03
REPRO)...CARD RESEQUENCE - DUPLICATOR (		890269	03
REPRODUCER PROGRAM...PAPER TAPE		850626	03
REREAD PACKAGE (IO)...NOPRINT,READ AND		890334	03
RESEARCH...ACCEPT TEST PROG FOR UCLA BRAIN		860783	03
RESEQUENCE - DUPLICATOR (REPRO)...CARD		890269	03
RESPONSE OF DIGITAL TRANSFER...FREQUENCY		890275	03
REVERSE SEMILOG PLOTTING PACKAGE...		890348	03
RE1...9185 CATHODE RAY TUBE DISPLAY UNIT/S		850727	03
RE20EQ...SUBROUTINE		890377	03
RMADD...REAL MATRIX ADDITION-		860651	03
RMADD)...REAL MATRIX ADDITION (		890197	03
RMINV...REAL MATRIX INVERSION-		860655	03
RMINV)...REAL MATRIX INVERSION (		890194	03
RMMUL...REAL MATRIX MULTIPLY-		860654	03
RMMUL)...REAL MATRIX MULTIPLY (		890195	03
RMSUB...REAL MATRIX SUBTRACTION -		860652	03
RMSUB)...REAL MATRIX SUBTRACTION(		890198	03
RMTRA...REAL MATRIX TRANSPOSE-		860653	03
RMTRA)...REAL MATRIX TRANSPOSE (		890196	03
ROOTBIS, ROOTFINDING BY BISECTION...		890171	03
ROOTFINDER...BAIRSTOW		890169	03
ROOTFINDING BY BISECTION...ROOTBIS,		890171	03
ROOTS OF POLYNOMIALS...		890170	03
ROUT FOR THE LINEPRINTER-PLOTTING...GRAPH		890259	03
ROUT....ALGOL 60 EXT'D UNBUF LINE PRT. LIB		850690	03
ROUTINES FOR LINE PRINTER-PLOTTING...GRAPH		890260	03
ROUTINES....FORTRAN READ AND WRITE TAPE		890335	03
ROUTINES...DECIMAL/BINARY CONVERSION		860643	03
ROUTINES...MAGNETIC TAPE POSITIONING		890340	03
ROUTINES...SEMILOG PLOTTING		890329	03
ROUTINES...SEQ. NUMBER ASGNT.+P.T.UPDATING		850687	03
ROUTINES...940 TELETYPE PLOT		890524	03
RPL, A DATA REDUCTION LANG. PRECOMPILER...		890286	03
RTF II INBUF. PRT. COMPILER MOD...920/930		851014	03
RTM STAND-ALONE UPDATE...		860784	03
RTM STAND-ALONE UPDATE...925/930		851257	03
RUN-TIME DEBUG SUBROUTINE...FORTRAN II		850680	03
RUN-TIME DEBUG...REAL-TIME FORTRAN		890526	03
RUN-TIME LIST...FORTRAN TO SYMBOL LANGUAGE		890253	03
RUN-TIME MOD....FORTRAN II FORMATS-AT		850963	03
RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT...		860613	03
RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS...		860612	03
RUNGE-KUTTA GILL INTEGRATION...HYBRID		860681	03
RUNGE-KUTTA INTEGRATION...		890183	03
RUNTIME SYSTEM...FORTRAN II		870028	03
SAFE INTERRUPT TESTER...POWER FAIL-		850720	03
SAFE TEST...MEMORY LOCK-OUT AND POWER FAIL		851057	03
SAFE TEST...MEMORY LOCK-OUT AND POWER FAIL		860758	03
SAFE TEST...POWER FAIL-		851186	03
SAMPLE AND HOLD TEST FOR G.D./CONVAIR...		851619	03
SAMPLE DATA FROM ANALOG INPUT AND STORE...		890292	03
SAM9300-SELECTIVE AUTO MONITOR PROGRAM...		890882	03
SATELLITE ANGLE & RANGE COMPUTE...SATFIX-		890664	03
SATFIX-SATELLITE ANGLE & RANGE COMPUTE...		890664	03
SATT)...SEMI-AUTOMATIC TYPEWRITER TEST (		850640	03
SATT)...SEMI-AUTOMATIC TYPEWRITER TEST (		860666	03
SAVE ON MAG TAPE...FORTRAN MEMORY		890304	03
SAVE...FORTRAN II MEMORY		850638	03
SCOOP TAPE PLOTTING ROUTINE, SCOPL-2...		890227	03
SCOPE TEST PROGRAM...		851182	03
SCOPL-2...SCOOP TAPE PLOTTING ROUTINE,		890227	03
SC4020 SUBROUTINES FOR XDS 920/930...		890299	03
SEARCH ARRAY...FORTRAN		890247	03
SEE...9300 DISPLAY CONVERSION (DISCV)-S		860645	03
SEISMIC DUMP A AND B FORMATS...		850740	03
SELECTIVE AUTO MONITOR PROGRAM...SAM9300-		890882	03
SELECTIVE LABEL TRACE, 160SYS...		890302	03
SELECTIVE MEMORY CLEAR - BOOTSTRAP...		850625	03
SELF F...HIGH SPEED 4 DIGIT BIN TO DEC POP		850803	03
SELF FILLING...HIGH SPEED ARCTANGENT POP-		850805	03
SELF FILLING...HIGH SPEED SIN-COS POP-		850804	03
SEMI AUTO TYPEWRITER TEST...		851135	03
SEMI-AUTOMATIC DIAGNOSTIC...VERIFIER AND		860662	03
SEMI-AUTOMATIC TYPEWRITER TEST (SATT)...		850640	03
SEMI-AUTOMATIC TYPEWRITER TEST (SATT)...		860666	03
SEMI-LOG/LINEAR PLOT PACKAGE...		890233	03
SEMILOG PLOTTING PACKAGE...		890351	03
SEMILOG PLOTTING PACKAGE...REVERSE		890348	03
SEMILOG PLOTTING ROUTINES...		890329	03
SEQ. NUMBER ASGNT.+P.T.UPDATING ROUTINES..		850687	03
SERIES CARD READER TEST PROGRAM...900		850656	03
SERIES EXPANSION OF RATIONAL POLYNOMIAL...		890166	03
SERIES FORTRAN II COMPILER DUMP...900		850662	03
SERIES FORTRAN IV COMPILER...900		851583	03
SERIES MAG TAPE DIAGNOSTICS...9-		890896	03
SERIES SOFTWARE NOTES COVER...9-		852000	03
SERIES...CONVOLUTION,CORR,FILTER., OF TIME		890222	03
SERVICE PROGRAM) FOR MAGNETIC TAPE...EDIT		890542	03
SHARING SYSTEM DISC DUMP...940 TIME-		870009	03

KEY	TITLE	CAT.NO	CL
SHARING SYSTEM EXECUTIVE...940 TIME-		870016	83
SHARING SYSTEM MONITOR...940 TIME		870017	83
SHELL MERGE-EXCHANGE...SORT-MODIFIED		890336	83
SHF...FLOATING-HYPERBOLIC SINE AND COSINE-		860626	83
SHIFT ROUTINE FOR A AND B REGISTERS...		890254	83
SHORT RELOCATING LOADER FOR 920/930...		890663	83
SIMPSONS...DOUBLE INTEGRATION BY		890182	83
SIMULATED DVA INSTRUCTION...DVASIM -		851589	83
SIMULATED DVB INSTRUCTION...DVBSIM -		851590	83
SIMULATED MUA INSTRUCTION...MUASIM -		851591	83
SIMULATED MUB INSTRUCTION...MUBSIM -		851592	83
SIMULATION OF SKIP ON COMPARISON INST....		890256	83
SIMULATION ROUTINE...HALT AND TRANSFER		890255	83
SIMULATOR (910/920)...CARD FILL		850651	83
SIMULATOR SYSTEM DIAGNOSTIC...DEE-6D		851136	83
SIMULATOR SYSTEM HANDLERS...DEE-6D		850742	83
SIMULATOR...16K DGC NOVA		890886	83
SIMULATOR...92		851019	83
SIMULATOR(910/920...MAG TAPE STANDARD FILL		850666	83
SIMULTANEOUS EQUATIONS...SOLUTION OF		890202	83
SIN (COS)-SNFE...F. P. EXTENDED PRECISION		860647	83
SIN COS...SIN OR COS OF A -		860619	83
SIN OR COS OF A - SIN COS...		860619	83
SIN-COS POP-SELF FILLING...HIGH SPEED		850804	83
SIN/COS-FLOATING-POINT SINE-COSINE SUBR...		851150	83
SINDX,COSDX...SINE/COSINE SINRX,COSRX,		860669	83
SINE (COSINE)-SNF (CSF)...FLOATING POINT		860628	83
SINE AND COSINE - SNFC...FLOATING COMPLEX		860635	83
SINE AND COSINE-SHF...FLOATING-HYPERBOLIC		860626	83
SINE WAVE MONITOR...		890190	83
SINE-COSINE SUBR....SIN/COS-FLOATING-POINT		851150	83
SINE/COSINE SINRX,COSRX,SINDX,COSDX...		860669	83
SINE/COSINE-SNFR(CSFR)SNFD(CSFD)...F. P.		860673	83
SINE, COSINE AND TANGENT...HYPERBOLIC		890160	83
SINGLE INSTRUCTION FLAG OPERATION, FLGPO..		890257	83
SINRX,COSRX,SINDX,COSDX...SINE/COSINE		860669	83
SKIP ON COMPARISON INST....SIMULATION OF		890256	83
SLZDEQ...SUBROUTINE		890333	83
SNAPSHOT SUBROUTINE...		851131	83
SNF (CSF)...FLOATING POINT SINE (COSINE)-		860628	83
SNFC...FLOATING COMPLEX SINE AND COSINE -		860635	83
SNFD(CSFD)...F. P. SINE/COSINE-SNFR(CSFR)		860673	83
SNFE...F. P. EXTENDED PRECISION SIN (COS)-		860647	83
SNFR(CSFR)SNFD(CSFD)...F. P. SINE/COSINE-		860673	83
SOLN ORDINARY DIFF. EQUATI...ADAMS-MOULTON		860690	83
SOLUTION OF DIFFERENTIAL EQUATIONS R-K-G..		890184	83
SOLUTION OF SIMULTANEOUS EQUATIONS...		890202	83
SORT (SORTAC,SORTDC)...INTERNAL		860679	83
SORT MERGE (COVER)...910/925		850848	83
SORT MERGE (COVER)...920/930		851006	83
SORT ROUTINE...B>SORT-BUSINESS LANGUAGE		890305	83
SORT SUBROUTINE...		890248	83
SORT...		860741	83
SORT-MODIFIED SHELL MERGE-EXCHANGE...		890336	83
SORT/MERGE (COVER)...		860740	83
SORTAC,SORTDC)...INTERNAL SORT (		860679	83
SORTDC)...INTERNAL SORT (SORTAC,		860679	83
SOURCE CARDS TO P.T.COPY ROUTINE...FORTRAN		850641	83
SOURCE TEST...PRIORITY INTERRUPT		850735	83
SQF...SQUARE ROOT FLOATING POINT -		860623	83
SQFC...FLOATING POINT COMPLEX SQUARE ROOT-		860633	83
SQR...SQUARE ROOT OF A -		860622	83
SQRT -FLOATING-POINT SQUARE ROOT SUBRT....		851594	83
SQUARE ROOT FLOATING POINT - SQF...		860623	83
SQUARE ROOT OF A - SQR...		860622	83
SQUARE ROOT SUBRT....SQRT -FLOATING-POINT		851594	83
SQUARE ROOT...FL. PT. EXTENDED PRECISION		860637	83
SQUARE ROOT-SQFC...FLOATING POINT COMPLEX		860633	83
SQUARE SUBROUTINE, LSQ...LEAST		890209	83
SQUARES POLYNOMIAL...LEAST		890187	83
STAND ALONE)...910/925 FORTRAN II SYSTEM (		850808	83
STAND ALONE)...920/930 FORTRAN II SYSTEM (		850957	83
STAND-ALONE SYSTEM-MAKE ROUTINE...9300		860692	83
STAND-ALONE UPDATE...RTM		860784	83
STAND-ALONE UPDATE...925/930 RTM		851257	83
STANDARD ANALOG TEST PROGRAM...		860776	83
STANDARD ANALOG TEST PROGRAM...910/925		850901	83
STANDARD CARD READER TEST DECK PROGRAM...		850660	83
STANDARD FILL SIMULATOR(910/920...MAG TAPE		850666	83
STATEMENTS...FORTRAN DRUM READ/WRITE		851026	83
STATEMENTS...XDS 910/925 FORTRAN II FORMAT		850833	83
STATION...ARRAYS PROGRAM FOR NAVAL TORPEDO		851579	83
STATISTICAL PACKAGE...STATPAK-		890349	83
STATPAK-STATISTICAL PACKAGE...		890349	83
STD)LISTING OUTPUT SUBR...TYPEWRITER (		890262	83
STORE...SAMPLE DATA FROM ANALOG INPUT AND		890292	83
STREAM EDITING PROGRAM...EDIT, CHARACTER		890249	83
SUBR...MODEL 9372 UNBUFFERED LINE PRINTER		860749	83
SUBR...SYMBOL 9372 UNBUFFERED PRINT OUTPUT		860751	83
SUBR...TYPEWRITER (STD)LISTING OUTPUT		890262	83
SUBRT....SQRT -FLOATING-POINT SQUARE ROOT		851594	83
SUBSTITUTION. POLYSUBS...LINEAR POLYNOMIAL		890164	83
SUBSTITUTION...RATIONAL POLYNOMIAL		890165	83
SUBSYSTEM...USNPOS DISPLAY		861084	83
SUBSYSTEMS ON RAD (WSD)...940 WRITE		870010	83
SUBTRACTION - RMSUB...REAL MATRIX		860652	83
SUBTRACTION...POLYNOMIAL ADDITION OR		890161	83
SUBTRACTION(RMSUB)...REAL MATRIX		890198	83
SUBTRACTION-CMSUB...COMPLEX MATRIX		860659	83
SUPERCOMPRESSIBILITY FACTORS NATURAL GAS..		890207	83
SURFACE FIT ARBITRARY FUNCTION...CURVE/		890191	83
SWAP...DISC		870013	83
SYMBOL ASSEMB. COMMON SOFTWARE PKG...META-		850065	83
SYMBOL ASSEMBLER (COVER)...		861083	83
SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE..		850040	83
SYMBOL ASSEMBLER-COVER...META-		860075	83
SYMBOL BOOTSTRAP...		860803	83
SYMBOL LANGUAGE RUN-TIME LIST...FORTRAN TO		890253	83
SYMBOL MNEMONIC TABLE...XDS 920/930		890243	83
SYMBOL PROC93CP...META-		850090	83
SYMBOL 4 BUF. LINE PRINTER MOD....910		851599	83
SYMBOL 4 BUF. LINE PRINTER MOD...920/910		851609	83
SYMBOL 4 BUF. LINE PRINTER MOD...920		851605	83
SYMBOL 4 TABLE PRINTER...910		851601	83
SYMBOL 4 TABLE PRINTER...920		851607	83
SYMBOL 4 UNBUF. LINE PRINTER MOD...910		851600	83
SYMBOL 4 UNBUF. LINE PRINTER MOD...920		851608	83
SYMBOL 4 UNBUF. PRINTER MOD...910/920		851603	83
SYMBOL 4 UNBUF. PRINTER MOD...920/910		851610	83
SYMBOL 4...910		851598	83
SYMBOL 4...910/920		851602	83
SYMBOL 4...920		851604	83
SYMBOL 4...920/910		851608	83
SYMBOL 8 BUF. PRINTER VERSION...920/930		851611	83
SYMBOL 8 UNBUF. PRINTER VERSION...920/930		851612	83
SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR..		860751	83
SYMBOL...		890965	83
SYMBOL...92		851158	83
SYMBOLIC INPUT/OPTIONAL MAG. TAPE...CARD		890272	83
SYMBOLIC INPUT/OPTIONAL MAG....PSI OR TSI		890271	83
SYMBOLIC MAGNETIC TAPE EDITOR...BASIC		850663	83
SYMBOLIC RECONSTRUCTOR(RECON)...ENCODED TO		850647	83
SYMBOLIC TRANSLATOR...REGEN-A BINARY TO		890548	83
SYS EXERCISER, Y BUF...42KC MAG TAPE		850682	83
SYS. CHECK OUT PROG...GENERAL ELECTRIC MOL		860789	83
SYS. CHECK OUT PROGRAM...DOUGLAS MOL		860788	83
SYS. UPDATE FOR UNBUFFERED PRINT...MONARCH		860750	83
SYS...LABEL TRACE, MODIFIED 160		890301	83
SYS)...FORTRAN CARD READ SUBROUTINE (216		890306	83
SYS)...FORTRAN LABEL TRACE POP (160		890308	83
SYSGEN FOR NAA SYSTEM...DES-1		860791	83
SYSGEN 2 - B00 MONARCH...		890842	83
SYSTEMS DIAGNOSTIC PROGRAM...JPL APS-100		851137	83
SYTM-15KC...MAGNETIC TP EXERCISER,2 TP		850679	83
TABLCON...		890538	83
TABLCON...QUBLDR DD-OPT PUNCH FOR INPUT		890539	83
TABLE PRINTER...910 SYMBOL 4		851601	83
TABLE PRINTER...920 SYMBOL 4		851607	83
TABLE...XDS 920/930 SYMBOL MNEMONIC		890243	83
TAC-TOE ROUTINE...TIC-		890309	83
TAN,TAND...TANGENT-		860878	83
TAND...TANGENT-TAN,		860878	83
TANDX(DEGREES OR RADIANS)...TANGENT-TANX,		860680	83
TANGENT...HYPERBOLIC SINE, COSINE AND		890160	83
TANGENT-TAN,TAND...		860878	83
TANGENT-TANX,TANDX(DEGREES OR RADIANS)...		860680	83
TANX,TANDX(DEGREES OR RADIANS)...TANGENT-		860680	83
TAP...940		870018	83
TAPE+TYPEWRITER SUBROUTINE(PTYIO)...PAPER		851159	83
TCP ANALOG EQUIPMENT DEMONSTRATION...JPL		851027	83
TELESCOPER...POLYNOMIAL		860697	83
TELETYPE PLOT ROUTINES...940		890524	83
TESTER925...DACC DIAGNOSTIC TEST WITH JX35		851118	83
TESTS FOR NORTH AMERICAN...SPECIAL ACCEPT.		860773	83
TESTS FOR THE 2ND 16K 3.0...UNIT3 MEMORY		870033	83
TESTS 3.0...UNIT 0 CPU		870030	83
TESTS 3.0...UNIT 2 FLOATING POINT		870032	83
THE LINEPRINTER-PLOTTING...GRAPH ROUT FOR		890259	83
THE XDS 940...FORTRAN II LIBRARY FOR		870027	83
THE 2ND 16K 3.0...UNIT3 MEMORY TESTS FOR		870033	83
THE 3RD 16K 3.0...UNIT 4 MEMORY TEST FOR		870034	83
THE 4TH 16K 3.0...UNIT 5 MEMORY TEST FOR		870035	83
THREE CARD RELOCATABLE LOADER...		850652	83
TIC-TAC-TOE ROUTINE...		890309	83
TIME CLOCK TEST ROUTINE...REAL		851060	83
TIME CLOCK TEST ROUTINE...REAL		860771	83
TIME CLOCK TEST...REAL		851187	83
TIME DEBUG SUBROUTINE...FORTRAN II RUN-		850680	83
TIME DEBUG...REAL-TIME FORTRAN RUN-		890526	83
TIME DEBUG...9300 REAL		860810	83
TIME FORTRAN COMMON SOFTWARE PKG...REAL-		850400	83
TIME FORTRAN II (COVER)...920/930 REAL		850984	83

PROGRAM AVAILABILITY LIST

KEY	TITLE	CAT.NO	CL
TIME FORTRAN IV LIBRARY...REAL-		860265	03
TIME FORTRAN OCTAL DUMP SUBROUTINE...REAL		890251	03
TIME FORTRAN RUN-TIME DEBUG...REAL-		890526	03
TIME HISTORY...AIRPLANE LAT-DIR		890284	03
TIME LIST...FORTRAN TO SYMBOL LANGUAGE RUN		890253	03
TIME MOD....FORTRAN II FORMATS-AT RUN-		850963	03
TIME MONITOR...REAL-		861000	03
TIME MONITOR...925/930 REAL-		851500	03
TIME SERIES...CONVOLUTION,CORR,FILTER., OF		890222	03
TIME SHARING SYSTEM MONITOR...940		870017	03
TIME-SHARING SYSTEM DISC DUMP...940		870009	03
TIME-SHARING SYSTEM EXECUTIVE...940		870016	03
TMCC DIAGNOSTIC TEST FOR 925/930...		851119	03
TMCC DIAGNOSTIC TEST FOR 9300...		860746	03
TOE ROUTINE...TIC-TAC-		890309	03
TORPEDO STATION...ARRAYS PROGRAM FOR NAVAL		851579	03
TOTAL CHECK...PATCH, PROGRAMMED ANALOG		850741	03
TP EXERCISER,2 TP SYTM-15KC...MAGNETIC		850679	03
TP SYTM-15KC...MAGNETIC TP EXERCISER,2		850679	03
TPE OUTPUT...920/930 FORT II MAG TPE/PAPER		850997	03
TPE/PAPER TPE OUTPUT...920/930 FORT II MAG		850997	03
TRACE MODIFICATION...910		890772	03
TRACE MODIFICATION...920		890773	03
TRACE MODIFICATION...925		890774	03
TRACE MODIFICATION...930		890775	03
TRACE POP (160 SYS)...FORTRAN LABEL		890308	03
TRACE ROUTINE, L-FORTRANRAN...LABEL		890250	03
TRACE...BUFFERED LINE PRINTER		851012	03
TRACE, MODIFIED 160 SYS...LABEL		890301	03
TRACE, 160SYS...SELECTIVE LABEL		890302	03
TRACK MAGNETIC TAPE TEST PROGRAM...9		851134	03
TRACK MAGNETIC TAPE TEST PROGRAM...9-		860787	03
TRANSFER SIMULATION ROUTINE...HALT AND		890255	03
TRANSFER...FREQUENCY RESPONSE OF DIGITAL		890275	03
TRANSFORM...INVERSE Z-		890276	03
TRANSFORM)...MAG TAPE TRANSFORMATION (		860734	03
TRANSFORM--FOR2D...FAST FOURIER		890317	03
TRANSFORM--FOURG...FAST FOURIER		890314	03
TRANSFORM--FOURT...FAST FOURIER		890313	03
TRANSFORM--FOUR1...FAST FOURIER		890316	03
TRANSFORM--FOUR2...FAST FOURIER		890315	03
TRANSFORMATION (TRANSFORM)...MAG TAPE		860734	03
TRANSLATOR...REGEN-A BINARY TO SYMBOLIC		890548	03
TRANSLATOR...XDS 900 TO 92 BINARY LANGUAGE		850646	03
TRANSPOSE (RMTRA)...REAL MATRIX		890196	03
TRANSPOSE-CMTRA...COMPLEX MATRIX		860660	03
TRANSPOSE-RMTRA...REAL MATRIX		860653	03
TREE TEST PROGRAM...BOEING FAULT		860778	03
TSI SYMBOLIC INPUT/OPTIONAL MAG....PSI OR		890271	03
TSS MONITOR,EXEC, AND PROCESSORS (CO...940		870025	03
TSS USERS UTILITY PROGRAMS...940		870026	03
TUBE DISPLAY TEST PROG....9158 CATHODE-RAY		850724	03
TUBE DISPLAY UNIT/S RE1....9185 CATHODE RAY		850727	03
TYPE SUBR. (LONG CARRIAGE)...FORTRAN II		850708	03
TYPE-OUT, REDUNDANCY ELIMINATION...MEMORY		850628	03
TYPEWRITER (STD)LISTING OUTPUT SUBR...		890262	03
TYPEWRITER (15'CARRIAGE) LISTING OUTPUT...		890263	03
TYPEWRITER HANDLER 925/930...PAPER TAPE -		851106	03
TYPEWRITER SUBROUTINE...PAPER TAPE AND		860648	03
TYPEWRITER TEST (SATT)...SEMI-AUTOMATIC		850640	03
TYPEWRITER TEST (SATT)...SEMI-AUTOMATIC		860666	03
TYPEWRITER TEST ROUTINE...SPECIAL		860760	03
TYPEWRITER TEST...SEMI AUTO		851135	03
TYPEWRITER TEST...92		851157	03
TYPEWRITER...INSPECTION/CORRECTION BY		890303	03
TYPEWRITER)...ONE CARD OCTAL MEMORY DUMP (		860722	03
U.S.STANDARD EARTH ATMOSPHERE ROUTINE...		890280	03
U.S.STANDARD EARTH MODEL ATMOSPHERE...		890279	03
U.S.STANDARD MARS ATMOSPHERE ROUTINE(196..		890281	03
U.S.STANDARD VENUS ATMOSPHERE ROUTINE...		890282	03
UCLA BRAIN RESEARCH...ACCEPT TEST PROG FOR		860783	03
UNBUF LINE PRT. LIB ROUT....ALGOL 60 EXT'D		850690	03
UNBUF. LINE PRINTER MOD...910 SYMBOL 4		851600	03
UNBUF. LINE PRINTER MOD...920 SYMBOL 4		851606	03
UNBUF. LINE PRINTER.SUBR.(PRIN...MOD. 9372		851178	03
UNBUF. PRINTER MOD...910/920 SYMBOL 4		851603	03
UNBUF. PRINTER MOD...920/910 SYMBOL 4		851610	03
UNBUF. PRINTER VERSION...920/930 SYMBOL 8		851612	03
UNBUF. PRT....920/930 FORTRAN II COMPILER		851017	03
UNBUF.LINE PRINTER DIAGNOSTIC...MOD. 9372		851179	03
UNBUF.PRINT...R.T.FORTRAN LOADER PATCH FOR		850697	03
UNBUF)...MONARCH MPRNT (		851290	03
UNBUF)...MONARCH PRINT (		851291	03
UNBUFFERED LINE PRINTER SUBR...MODEL 9372		860749	03
UNBUFFERED LINE PRINTER TEST PROGRAM...		850712	03
UNBUFFERED LINE PRINTER TEST 925/93...9372		851124	03
UNBUFFERED LINE PRINTER TEST...		850694	03
UNBUFFERED LINE PRINTER TEST...MODEL 9372		860755	03
UNBUFFERED LINEPRINTER...CORE DUMP TO		890240	03
UNBUFFERED PRINT OUTPUT SUBR...SYMBOL 9372		860751	03
UNBUFFERED PRINT...MONARCH SYS. UPDATE FOR		860750	03
UNBUFFERED PRINT...PINT 920/930		850986	03
UNBUFFERED PRINT...XDS 910 PINT-		850832	03
UNBUFFERED PRINTER...910/925 MONARCH FOR		851258	03
UNBUFFERED PRINTER...920/930 MONARCH FOR		851259	03
UNBUFFERED PRINTER...925 RAD MONARCH FOR		851260	03
UNBUFFERED PRINTER...930 RAD MONARCH FOR		851261	03
UNBUFFERED PRTR.MOD....910/925 FORTRAN II		850859	03
UNCORRELATED RANDOM NUMBER GENERATOR...		890213	03
UNIT I/O ROUTINE...CONVOLUTION & FILTERING		890221	03
UNIT 0 CPU TESTS 3.0...		870030	03
UNIT 1 CPU EXERCISER 3.0...		870031	03
UNIT 12 E CHANNEL RAD TEST 3.0...		870036	03
UNIT 15 W CHANNEL RAD TEST 3.0...		870037	03
UNIT 18 E CHANNEL DISC...		870040	03
UNIT 19 F CHANNEL DISC...		870041	03
UNIT 2 FLOATING POINT TESTS 3.0...		870032	03
UNIT 21 W CHANNEL DISC TEST 3.0...		870038	03
UNIT 23 CTE 10/11 COM GEAR TEST 3.0...		870039	03
UNIT 4 MEMORY TEST FOR THE 3RD 16K 3.0...		870034	03
UNIT 5 MEMORY TEST FOR THE 4TH 16K 3.0...		870035	03
UNIT/S RE1...9185 CATHODE RAY TUBE DISPLAY		850727	03
UNIT3 MEMORY TESTS FOR THE 2ND 16K 3.0...		870033	03
UNIVAC - XDS...BCD CONVERSION, XDS -		890293	03
UNIVERSAL BINARY LOADER (QUBLDR)...		851162	03
UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING...		890297	03
UNIVERSAL LOADER...		850845	03
UNIVERSAL LOADER...		860809	03
UNIVERSAL LOADER...CARD OR MAG. TAPE		860733	03
UNPACKING OF FLOATING POINT...PACKING AND		890337	03
UPDATE EXAMPLE...LIBRARY		890270	03
UPDATE FOR UNBUFFERED PRINT...MONARCH SYS.		860750	03
UPDATE...MONARCH SYSTEM		890540	03
UPDATE...RTM STAND-ALONE		860784	03
UPDATE...925/930 RTM STAND-ALONE		851257	03
UPPER LOADE...BINARY PAPER TAPE RELOCATING		851163	03
USERS UTILITY PROGRAMS...940 TSS		870026	03
USNPGS DISPLAY EXECUTIVE LIBRARY...		861079	03
USNPGS DISPLAY SUBSYSTEM...		861084	03
USNPGS DISPLAY TEST PROGRAM...		861077	03
USNPGS HYBRID EXECUTIVE LIBRARY...		861078	03
USNPGS HYBRID INTERFACE TEST...		861076	03
UTILITIES INDUSTRY PACKAGE...		890285	03
UTILITY PACKAGE		851143	03
VARI...LINEAR INTERPOLATION-1 INDEPENDENT		850914	03
VARI...LINEAR INTERPOLATION-2 INDEPENDENT		850915	03
VARI...LINEAR INTERPOLATION-3 INDEPENDENT		850916	03
VECTOR) PLOTTING PACKAGE...PLOT (24		890331	03
VECTOR' PLOTTING PACKAGE...PLOT '8		890330	03
VENUS ATMOSPHERE ROUTINE...U.S.STANDARD		890282	03
VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC...		860662	03
VERIFY - BOOTSTRAP...BINARY		850627	03
VERIFY PROGRAM...MAG TAPE COPY AND		860694	03
VERIFY PROGRAM...925/930 CARD PUNCH AND		851108	03
WAVE MONITOR...SINE		890190	03
WINNIM - PROGRAM TO PLAY NIM...		890291	03
WORD...SET OR DETECT ITH BIT OF A		890284	03
WORD/BIT ORIENTED FUNCTION & SUBROUTINE...		890332	03
WRITE MODIFICATION...FORTRAN II DRUM READ/		850864	03
WRITE STATEMENTS...FORTRAN DRUM READ/		851026	03
WRITE SUBSYSTEMS ON RAD (WSD)...940		870010	03
WRITE TAPE ROUTINES....FORTRAN READ AND		890335	03
WSD)...940 WRITE SUBSYSTEMS ON RAD (		870010	03
Y0, Y1...BESSEL FUNCTION J0, J1		890174	03
Y0,Y1,I0,I1,K0,K1...BESSEL FUNCTIONS-J0,J1		890179	03
Y1...BESSEL FUNCTION J0, J1 Y0,		890174	03
Y1,I0,I1,K0,K1...BESSEL FUNCTIONS-J0,J1,Y0		890179	03
ZERO MEMORY...		850624	03
ZERO...BESSEL FUNCTION-FIRST KIND, ORDER		890177	03
ZGAUSSF, P...PROBABILITY FUNCTIONS - ERRF,		890347	03
1NBUF. PRT. COMPILER MOD...920/930 RTF II		851014	03
1RAND)...PSEUDO-RANDOM NUMBER SUBROUTINE (		890210	03
100 SYSTEMS DIAGNOSTIC PROGRAM...JPL APS-		851137	03
15'CARRIAGE) LISTING OUTPUT...TYPEWRITER (		890263	03
15KC MAG TAPE TEST-INTERUPT AND INTRLACE..		850673	03
15KC MAGNETIC TAPE TEST...		850675	03
15KC...MAGNETIC TAPE SYSTEM EXERCISER-		850674	03
15KC...MAGNETIC TP EXERCISER,2 TP SYTM-		850679	03
16K DGC NOVA SIMULATOR...		890886	03
16K VERSION...DES-1		860780	03
16K 3.0...UNIT 4 MEMORY TEST FOR THE 3RD		870034	03
16K 3.0...UNIT 5 MEMORY TEST FOR THE 4TH		870035	03
16K 3.0...UNIT3 MEMORY TESTS FOR THE 2ND		870033	03
160 SYS...LABEL TRACE, MODIFIED		890301	03
160 SYS)...FORTRAN LABEL TRACE POP (		890308	03
160SYS...SELECTIVE LABEL TRACE,		890302	03
1622 CARD READ/PUNCH TEST PROGRAM...		850717	03
196...U.S.STANDARD MARS ATMOSPHERE ROUTINE		890281	03
2K-910...COMPUTER ASSEMBLY PROGRAM FOR		890244	03
216 SYS)...FORTRAN CARD READ SUBROUTINE (		890308	03
24K VERSION...DES-1		860781	03
3.0...UNIT 0 CPU TESTS		870030	03

KEY	TITLE	CAT.NO	CL
3.0...UNIT 1 CPU EXERCISER		870031	83
3.0...UNIT 12 E CHANNEL RAD TEST		870036	83
3.0...UNIT 15 W CHANNEL RAD TEST		870037	83
3.0...UNIT 2 FLOATING POINT TESTS		870032	83
3.0...UNIT 21 W CHANNEL DISC TEST		870038	83
3.0...UNIT 23 CTE 10/11 COM GEAR TEST		870039	83
3.0...UNIT 4 MEMORY TEST FOR THE 3RD 16K		870034	83
3.0...UNIT 5 MEMORY TEST FOR THE 4TH 16K		870035	83
3.0...UNIT3 MEMORY TESTS FOR THE 2ND 16K		870033	83
3GO ELECTRONIC CIRCUIT ANALYSIS	(ECAP)..	890669	83
3RD 16K 3.0...UNIT 4 MEMORY TEST FOR THE		870034	83
32K MEMORY DIAGNOSTIC...8-16-		851156	83
32K VERSION...DES-1		860782	83
4K MEMORY DIAGNOSTIC...2-		851155	83
4K SYSTEM (COVER)...920/930 ALGOL 60 BASIC		850970	83
4K SYSTEM...910/925 ALGOL 60 BASIC		850816	83
4TH 16K 3.0...UNIT 5 MEMORY TEST FOR THE		870035	83
42KC MAG TAPE SYS EXERCISER, Y BUF...		850682	83
42KC MAGNETIC TAPE EXERCISER, W BUFFER...		850696	83
42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER..		850681	83
42KC MAGNETIC TAPE TEST PROGRAM,W BUFFER..		850695	83
6D SIMULATOR SYSTEM DIAGNOSTIC...DEE-		851136	83
6D SIMULATOR SYSTEM HANDLERS...DEE-		850742	83
8K VERSION...DES-1		860779	83
9RDDISC,9WRDISC...FORTRAN IV LIBRARY		861085	83
9TK EXTEND MODE MULTI-MAG TAPE EXERCISER..		850755	83
9TK EXTEND MODE MULTI-MAG TAPE EXERCISER..		860794	83
9TRACK MAGNETIC TAPE TEST PROGRAM...		860793	83
9WRDISC...FORTRAN IV LIBRARY 9RDDISC,		861085	83
900 PAPER TAPE PUNCH TEST...		851623	83
900 SERIES CARD READER TEST PROGRAM...		850656	83
900 SERIES FORTRAN II COMPILER DUMP...		850662	83
900 SERIES FORTRAN IV COMPILER...		851583	83
900 TO 92 BINARY LANGUAGE TRANSLATOR...XDS		850646	83
9158...CARD PUNCH TEST PROGRAM PACKAGE -		850657	83
9157...CARD PUNCH TEST PROGRAM -		850658	83
9158 CARD PUNCH TEST PROGRAM...		850661	83
9158 CARD PUNCH TEST PROGRAM...		851111	83
9158 CARD PUNCH TEST PROGRAM...		860730	83
9158 CATHODE-RAY TUBE DISPLAY TEST PROG...		850724	83
9161 DRUM MEMORY TEST PROGRAM...		850716	83
9165 DISC EXERCISER DIAGNOSTIC...		851062	83
9171 BUFFERED LINE PRINTER DIAG...9379/		860754	83
9171...BUFFERED LINE PRT. DIAGNOSTIC 9379/		851180	83
9174/9179 PRINTER DIAGNOSTIC 925/930...		851122	83
9175 PLOTTER...PLOT PACKAGE FOR XDS		890228	83
9179 PRINTER DIAGNOSTIC 925/930...9174/		851122	83
9185 CATHODE RAY TUBE DISPLAY UNIT/S RE1..		850727	83
9267 DISC FILE DIAGNOSTIC-(DFD)...		860765	83
9333 7 OR 8 LEVEL PAPER TAPE TEST...MODEL		850726	83
9367 RAD...930 RAD DIAGNOSTIC FOR		851063	83
9367-A 925/...TEST PROGRAM DISC FILE MODEL		851130	83
9367-A...TEST PROGRAM FOR DISC FILE		851185	83
9372 PRINTER...MEMORY DUMP FOR		890252	83
9372 UNBUF. LINE PRINTER.SUBR.(PRIN...MOD.		851178	83
9372 UNBUF.LINE PRINTER DIAGNOSTIC...MOD.		851179	83
9372 UNBUFFERED LINE PRINTER SUBR...MODEL		860749	83
9372 UNBUFFERED LINE PRINTER TEST 925/93..		851124	83
9372 UNBUFFERED LINE PRINTER TEST...MODEL		860755	83
9372 UNBUFFERED PRINT OUTPUT SUBR...SYMBOL		860751	83
9379 PRINTER DIAGNOSTIC 925/930...		851123	83
9379 PRINTER DIAGNOSTIC...		860792	83
9379/9171 BUFFERED LINE PRINTER DIAG...		860754	83
9379/9171...BUFFERED LINE PRT. DIAGNOSTIC		851180	83

850000 900-SERIES MONARCH COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
ROUTINES THAT PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS 850001 THRU 850011, 850013 THRU 850023, 850031 THRU 850033, 850669, 851012, 851290 THRU 851298

850001 9-SERIES MONARCH TAPE LOADER (LOAD)
AUTHOR: XEROX
ABSTRACT:
THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH TAPE SYSTEM.
COMMENTS:
PROGRAM TYPE IS ASSEMLBER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL

850004 9-SERIES MONARCH RAD LOADER (LOAD)
AUTHOR: XEROX
ABSTRACT:
THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH RAD SYSTEM.
COMMENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

850022 9-SERIES PURGE FOR RAD MONARCH
AUTHOR:XEROX DATA SYSTEMS
ABSTRACT:
THIS ROUTINE IS ON RAD MONARCH SYSGEN TAPE. IT IS USED TO REMOVE USER-ADDED LABELS FROM THE FILE DIRECTORY, AT USERS DISCRETION.
COMMENTS:

850023 900-SERIES BOOTSTRAP GENERATOR FOR RAD MONARCH
AUTHOR: XEROX
ABSTRACT:
PUNCHES A BOOTSTRAP FOR RAD MONARCH (WITH CURRENT POINTERS) ON PAPERTAPE OR CARDS. USE OUTPUT TO RELOAD SYSTEM.

850035 910 910/925 TAPE MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF CORE STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES.

850036 9-SERIES 925 RAD MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
A SYSTEM TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE MAG TAPE, AND A 9367 DISC FILE

850037 9-SERIES 920/930 TAPE MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAGNETIC TAPES.

850038 9-SERIES 930 RAD MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORT-II PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 930 WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND A 9367 DISC FILE.

850040 900-SERIES SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO ASSEMBLE SOURCE PROGRAMS WRITTEN IN THE SYMBOL ASSEMBLY LANGUAGE.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS: 850041 THRU 850059.

850065 900-SERIES META-SYMBOL ASSEMB. COMMON SOFTWARE PKG
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE IS THE COVER FOR THE 900-SERIES META-SYMBOL ASSEMBLER. THE SYSTEM IS ONLY AVAILABLE UNDER MONARCH.
COMMENTS:
RELOCATABLE BINARY ON MONARCH SYSTEM TAPES: 850035-85 850036-85, 850037-85, 850038-85. THIS PROGRAM INCLUDES CATALOG NUMBERS 850066 THRU 850090, 851262 THRU 851270, AND 851273 THRU 851281

850090 9-SERIES META-SYMBOL PROC93CP
AUTHOR: XEROX
ABSTRACT:
CONVERTS 900 CODE TO 9300 CODE

850095 900-SERIES MONARCH LIBRARY COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS THOSE ROUTINES COMMON TO ALL 900 SERIES MONARCH SYSTEMS.
COMMENTS:
900 SERIES RELOCATABLE BINARY ON MONARCH SYSTEM TAPES. THIS PROGRAM COVERS CATALOG NUMBERS 850101 THRU 850160, 850171 THRU 850202, 850204, 850642, 850647 PART OF CATALOG NO. 850095, MONARCH LIBRARY COMMON SOFTWARE PACKAGE. RELOCATABLE BINARY AVAILABLE AS PART OF 850035-85 FOR TAPE MONARCH AND 850038-85 FOR RAD MONARCH.

850161 910 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, WHICH CONSISTS OF THE FOLLOWING PROGRAMS SCHEDULE SPECTRUM PROGRAM (SSP), DETAIL SCHEDULE REPORT PROGRAM (DSRP) PROGRESS EVALUATION PROGRAM (PEP) PROGRESS EVALUATION SORT PROGRAM (PEPSORT) RESOURCE ALLOCATION PROGRAM (RAP) BARCHART
COMMENTS:
COMPUTER CONFIGURATION: 910/925 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE,2 MAGNETIC TAPES,A TYPE WRITER,PAPER TAPE OR PUNCHED CARD INPUT, AND A BUFFERED PRINTER. THIS PROGRAM COVERS CATALOG NUMBERS 850162 THRU 850187, 850362 THRU 850368 TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

850210 910/925 FORTRAN II COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
THE FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING, LOADING, AND EXECUTING FORTRAN II PROGRAMS.
COMMENTS:
SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS MANUAL. RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. RELOCATABLE BINARY AVAILABLE ON 850808-85 FOR STAND-ALONE (S/A) THIS PROGRAM COVERS CATALOG NUMBERS 850211, 850212, 850215 THRU 850251, 850256 THRU 850277, 850279 THRU 850294, 851138 THRU 851141, 851282, 851283

850211 9-SERIES 910/925 F-II COMPILER (FC-1)
AUTHOR: XEROX
ABSTRACT:
THE FORTRAN II COMPILER IS A ONE-PASS ROUTINE; THAT IS IT READS THE SOURCE PROGRAM ONLY ONCE AND SIMULTANEOUSLY GENERATES THE OBJECT PROGRAM IN A FORM ACCEPTABLE TO THE FORTRAN LOADER.

850315 9-SERIES 920/930 FORTRAN-II COMMON SOFTWARE PKG.
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE CONTAINS 920/930 FORTRAN II COMPILER, AND LOADER ROUTINES SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.
COMMENTS:
SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS MANUAL. RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. THIS COVER NUMBER INCLUDES CATALOG NUMBERS 850212, 850316, 850318 THRU 850322, 850325 THRU 850329, 850558 THRU 850623, 851140, 851125, 851126, 851141, 851284, 851285

850330 9-SERIES ALGOL COMMON SOFTWARE PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THE 900 SERIES ALGOL 60-8 SYSTEM IS A COMPLETE SYSTEM FOR COMPILING, LOADING, AND EXECUTING ALGOL 60-8

850330 CONTINUED ON FOLLOWING PAGE

850330 ALGOL COMMON SOFTWARE PACKAGE (COVER) (CONTINUED)
PROGRAMS.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.S: 850818 THRU 850823, 850825, 850826, 850827, 850844 THRU 850846, 850972 THRU 850977, 850979 THRU 850981, 851000 THRU 851002, 850331, 850332, 850335 THRU 850355, 850360, 850361, 850370 THRU 850372.

850362 920 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900S WITH A MINIMUM OF 8K WORDS OF CORE STORAGE,2 MAGNETIC TAPES,A TYPE WRITER,PAPER TAPE OF PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

850400 910 REAL-TIME FORTRAN COMMON SOFTWARE PKG
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.
COMMENTS:
RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850036-85 FOR RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850401, 850403 THRU 850406, 850408 THRU 850476, 850478, 851286, 851287

850480 9-SERIES 920/930 R/T FORTRAN COMMON SOFTWARE PKG.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE BATCH PROCESSING CAPABILITY FOR REAL-TIME FORTRAN II UNDER MONARCH. FOR ABSTRACTS,SEE COMPARABLE ROUTINES IN EITHER 910/925 FORTRAN II OR 910/925 R.T. FORTRAN II.
COMMENTS:
RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850481 THRU 850483, 850485 THRU 850557, 851288, 851289

850624 9-SERIES ZERO MEMORY
AUTHOR: XEROX
ABSTRACT:
TO SET ALL OF MEMORY EXCEPT WORD 0007 TO 000000.
COMMENTS:
SIZE:8 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.

850625 9-SERIES SELECTIVE MEMORY CLEAR - BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO AID THE USER IN CLEARING SELECTED PORTIONS OF MEMORY, BY SELECTIVELY CLEARING MEMORY, THE ROUTINE SAVES PROGRAMS WHICH THE USER MAY WANT TO USE AGAIN.
COMMENTS:
SIZE: 22 DECIMAL. CONFIGURATION: ALL 910 AND 920

850626 9-SERIES PAPER TAPE REPRODUCER PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO REPRODUCE BINARY PAPER TAPE. ONLY THOSE TAPES WHICH HAVE AN INTEGRAL MULTIPLE OF FOUR CHARACTERS PER BLOCK CAN BE PRODUCED BY THIS PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 355 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH PUNCH, READER AND TYPEWRITER.

850627 9-SERIES BINARY VERIFY - BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE METHOD OF ASCERTAINING THE VALIDITY OF INFORMATION LOADED INTO MEMORY FROM TAPE OR OF INFORMATION PUNCHED ON TAPE. THE ROUTINE WILL VERIFY ANY ABSOLUTE BINARY TAPE WHICH HAS A STARTING ADDRESS IN BITS 10-23 OF THE SECOND CONTROL WORD OF EACH BLOCK.
COMMENTS:
SIZE 30 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.

850628 9-SERIES MEMORY TYPE-OUT, REDUNDANCY ELIMINATION
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TYPES SPECIFIED SECTIONS OF MEMORY, FOUR WORDS PER LINE, IN EITHER OCTAL OR INSTRUCTION FORMAT. BIT PATTERNS WHICH REPEAT ARE INDICATED, RATHER THAN REDUNDANTLY TYPED.
COMMENTS:
SIZE 129 DECIMAL. CONFIGURATION: 910 OR 920 COMPUTER WITH TYPEWRITER.

850629 9-SERIES DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN DEBUGGING. FUNCTIONS WHICH MAY BE PERFORMED BY THIS ROUTINE ARE 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:
SIZE 477 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 COMPUTER.

850634 9-SERIES BINARY PAPER TAPE BOOTSTRAP + GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON PAPER TAPE IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/ META-SYMBOL. SIZE 55 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEMORY AND PAPER TAPE PUNCH.

850637 9-SERIES BINARY PAPER TAPE LIST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A METHOD OF LISTING A BINARY PAPER TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE 140 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS MODEL 9173 LINE PRINTER OR TYPEWRITER.

850638 9-SERIES FORTRAN II MEMORY SAVE
AUTHOR: XEROX
ABSTRACT:
TO PUNCH A SELF-LOADING PAPER TAPE REPRESENTING THE FORTRAN PROGRAM WHICH IS IN CORE AND OPTIONALLY TO PUNCH ANY OF THE FOLLOWING: 1. THE FORTRAN VARIABLES 2. COMMON 3. RUN-TIME .
COMMENTS:
SOURCE LANGUAGE: SYMBOL-8. SIZE 355 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER, PAPER TAPE PUNCH, AND CONSOLE TYPEWRITER. CARD READER OPTIONAL.

850641 9-SERIES FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY FORTRAN SOURCE CARD IMAGES (COLUMNS 1-72, OR LESS) ONTO PAPER TAPE AND CONVERT ALL CARD BLANKS (60) TO SPACES (12).
COMMENTS:
SIZE 70 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER AND PAPER TAPE PUNCH.

850642 900-SERIES MEDIA CONVERSION ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY VARIABLE LENGTH RECORDS ON BINARY OR BCD CARDS, PAPER OR MAGNETIC TAPE, OR TYPED INPUT, TO CARDS, PAPER OR MAGNETIC TAPE, TYPEWRITER OR LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1181 DECIMAL. CONFIGURATION: ANY 4K XDS 910, 920, 925 OR 930 WITH ONE OR MORE PERIPHERAL DEVICES ATTACHED TO ANY OR CHANNEL AND A CONSOLE TYPEWRITER ON THE W BUFFER. BINARY IS ALSO AVAILABLE ON MONARCH SYSTEM TAPES. THIS PROGRAM IS PART OF CATALOG NO. 850095.
ROGRAM IS PART OF CATALOG

850643 9-SERIES BINARY DUMP, PAPER TAPE OR CARDS
AUTHOR: XEROX
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT OR PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 252 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE AND/OR CARD I/O.

850644 9-SERIES BINARY INPUT-BASIC PAPER TAPE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD RELOCATABLE OR ABSOLUTE OBJECT PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL ON PAPER TAPE, AND TO LOAD THE ''STANDARD CONSTANTS.''
COMMENTS:
SIZE 79 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER.

850645 9-SERIES UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SIZE 664 DECIMAL. ASSEMBLY LANGUAGE USED: SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.

850646 9-SERIES XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR
AUTHOR: XEROX
ABSTRACT:
TO TRANSLATE XDS 92 BINARY OBJECT PROGRAMS PRODUCED BY META-SYMBOL FROM THE STANDARD XDS 900 SERIES BINARY OBJECT LANGUAGE INTO THE STANDARD XDS 92 BINARY OBJECT PROGRAM LANGUAGE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 622 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER OR CARD READER, PAPER TAPE PUNCH OR CARD PUNCH.

850647 900-SERIES ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON)
AUTHOR: XEROX
ABSTRACT:
TO RECONSTRUCT FROM AN ENCODED REPRESENTATION OF A PROGRAM ON PAPER TAPE, CARDS OR MAGNETIC TAPE A SYMBOLIC REPRESENTATION OF THE PROGRAM ON CARDS. PAPER TAPE OR MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1019 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT LEAST 4K WORDS OF MEMORY AND A CARD READER, OR PAPER TAPE READER, OR MAGNETIC TAPE UNIT AND CARD PUNCH OR PAPER TAPE PUNCH OR MAGNETIC TAPE UNIT. BINARY ALSO AVAILABLE ON MONARCH SYSTEM TAPES.

850648 9-SERIES BINARY INPUT ONE CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.
COMMENTS:
SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.

850649 9-SERIES BINARY INPUT-TWO CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD RELOCATABLE OR ABSOLUTE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON PUNCHED CARDS.
COMMENTS:
SIZE 78 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER.

850650 9-SERIES ABSOLUTE BINARY LOADER WITH CONSTANTS
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 83 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.

850651 9-SERIES CARD FILL SIMULATOR (910/920)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE USERS OF THE XDS 910/920 SERIES COMPUTERS WITH A PAPER TAPE ROUTINE THAT SIMULATES THE CARD FILL SWITCH ON THE XDS 925/930 SERIES COMPUTERS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE 12 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER AND A BINARY CARD READER.

850652 9-SERIES THREE CARD RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ABSOLUTE OR RELOCATABLE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER IN XDS STANDARD BINARY PUNCHED CARD FORMAT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 135 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARDS READER.

850653 9-SERIES OCTAL INPUT-ONE CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
COMMENTS:
SIZE 32 DECIMAL. ANY XDS 900 SERIES COMPUTER.

850662 9-SERIES 900 SERIES FORTRAN II COMPILER DUMP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF DUMPING THE FORTRAN II COMPILER, PRECEDED BY AN ABSOLUTE BINARY LOADER, EITHER ON PAPER TAPE OR CARDS. THIS ALLOWS THE USER TO GENERATE AN EXTENDED COMPILER INCORPORATING ANY OF THE AVAILABLE COMPILER MODIFICATIONS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:391 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE PUNCH OR CARD PUNCH.

850663 9-SERIES BASIC SYMBOLIC MAGNETIC TAPE EDITOR
AUTHOR: XEROX
ABSTRACT:
TO COPY AND UPDATE MAGNETIC TAPES CONTAINING VARIABLE LENGTH RECORDS (1-33 WORDS) OF BCD INFORMATION.
COMMENTS:
SOURCE LANGUAGE: FORTRAN, SYMBOL. SIZE:8000 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, AND TWO MAGNETIC TAPES. A CARD READER IS DESIRABLE.

850664 9-SERIES PAPER TAPE AND MAGNETIC TAPE COPIER
AUTHOR: XEROX
ABSTRACT:
TO COPY PAPER TAPE TO MAGNETIC TAPE AND MAGNETIC TAPE TO PAPER TAPE.
COMMENTS:
SIZE 347 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 4K MEMORY AND ONE MAGNETIC TAPE UNIT.

850668 9-SERIES MAG TAPE STANDARD FILL SIMULATOR(910/920
AUTHOR: XEROX
ABSTRACT:
TO LOAD PROGRAMS FROM MAGNETIC TAPE 0 VIA THE STANDARD FILL PROCEDURE.
COMMENTS:
SI:E 20 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH ONE MAGNETIC TAPE UNIT (SET TO ZERO).

850667 9-SERIES BINARY INPUT-MAGNETIC TAPE ABSOLUTE LDR
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON LOW DENSITY MAGNETIC TAPE IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:38 DECIMAL. ANY XDS 900 SERIES COMPUTER WITH MAGNETIC TAPE.

850669 9-SERIES MONARCH - LIBPACK
AUTHOR:XEROX DATA SYSTEMS
ABSTRACT:
TO PROVIDE A GENERALIZED GET/PUT PROGRAM DESIGNED TO CREATE BLOCKED LIBRARY MAG TAPES WRITTEN BCD OR BINARY (ENCODED) TO FACILITATE TAPE STORAGE. THE PROGRAM ALSO PROVIDES THE ABILITY TO RECREATE HARD COPY, PRINTED LISTS AND GENERATE MULTIPLE MASTER COPIES FOR BACK UP AND GENERALL DISTRIBUTION.
COMMENTS:
THIS PROGRAM IS PART OF 850000, MONARCH COMMON SOFTWARE PACKAGE. RELOCATABLE BINARY ARE PART OF THE APPROPRIATE SYSTEM TAPE.

850677 9-SERIES 92 PROCEDURE DECK
AUTHOR: XEROX
ABSTRACT:
META-SYMBOL WITH THIS PROC DECK SERVES AS IN INTERIM ASSEMBLER IN PLACE OF 92 SYMBOL.
COMMENTS:
PROGRAMS ASSEMBLED WITH THIS PROC DECK SHOULD BE PRECEDED BY AORG N, N> 32. THE FOLLOWING SHOULD NOT BE USED: TEXT, BCE, REG, REF. DEF, OPD, LOCAL SYMBOLS. SOURCE LANGUAGE: META-SYMBOL.

850678 9-SERIES DEMONSTRATION OF LINKING UNDER MONARCH
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE - COMPILING OF THREE LINKS, WRITING THE LINKS ON THE LINKING TAPE AND EXECUTING THE PROGRAM.
COMMENTS:
SOURCE LANGUAGE: FORTRAN. CONFIGURATION: 900 SERIES WITH AT LEAST TWO MAGNETIC TAPES AND CARD READER.

850680 9-SERIES FORTRAN II RUN-TIME DEBUG SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW THE USER TO EXAMINE THE VALUES OF VARIABLES DURING THE EXECUTION OF A FORTRAN PROGRAM AND TO CHANGE THESE VALUES CONVENIENTLY.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:319 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH TYPEWRITER.

850683 9-SERIES BUFFERED LINE PRINTER MEMORY DUMP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A METHOD OF PRINTING THE CONTENTS OF MEMORY VIA THE LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 248 DECIMAL. CONFIGURATION:ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER.

850684 9-SERIES CARD OR MAG TAPE TO BUFFERED LINE PRINTR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A METHOD OF PRINTING CARD IMAGES FROM EITHER A CARD READER OR A MAGNETIC TAPE UNIT WITH OR WITHOUT FORMAT CONTROL ON THE LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 806 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER AND EITHER AN XDS MODEL 9151 CARD READER OR XDS MODEL (9145 OR 9240) MAGNETIC TAPE UNIT.

850686 9-SERIES FORTRAN FREE INTERRUPTS SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW THE USER TO USE LOCATIONS 200-247 FOR INTERRUPTS DURING THE EXECUTION OF A FORTRAN OBJECT PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:138 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER.

850687 9-SERIES SEQ. NUMBER ASGNT.+P.T.UPDATING ROUTINES
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SOURCE STATEMENT WITH SEQUENCE NUMBERS TO FACILITATE USE OF THE UPDATING PORTIONS OF THE PROGRAM AND TO PUNCH AN UPDATED VERSION OF THE SOURCE PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 4009 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEMORY, PAPER TAPE I/O AND TYPEWRITER.

850688 9-SERIES UTILITY AND DEBUG PACKAGE (AID)
AUTHOR: XEROX
ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINE AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:2584 DECIMAL. CONFIGURATION: ANY 900 SERIES XDS COMPUTER WITH A CONSOLE TYPEWRITER.

850690 900-SERIES ALGOL 60 EXT'D UNBUF LINE PRT. LIB ROUT.
AUTHOR: XEROX
ABSTRACT:
TO ALLOW USE OF UNBUFFERED LINE PRINTER IN ALGOL SYSTEM. THIS LIBRARY PROGRAM IS LOADED WHEN OUTPUT TO THE LINE PRINTER IS CALLED FOR IN AN ALGOL PROGRAM.OUTPUT TO THE LINE PRINTER IS
COMMENTS:
SOURCE LANGUAGE:METASYMBOL COMPUTER CONFIGURATION:ANY XDS 900 SERIES COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).

850697 9-SERIES R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT
AUTHOR: XEROX
ABSTRACT:
TO ALLOW USE OF THE UNBUFFERED LINE PRINTER WITH THE STANDARD REAL-TIME FORTRAN II LOADER.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:3420 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT LEAST 8K MEMORY AND AN UNBUFFERED LINE PRINTER (XDS MODEL NO. 9372).

850698 9-SERIES XDS FORTRAN DEMONSTRATION PROGRAM
AUTHOR: XEROX
ABSTRACT:
INVERTS A 10X10 MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN. SIZE 4000 DECIMAL. CONFIGURATION: ANY XDS COMPUTER WITH A 4K OR GREATER MEMORY.

850701 9-SERIES PROGRAM CORRECTION TAPE GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO AUTOMATE MODIFICATION OF OBJECT PROGRAMS.
COMMENTS:
SIZE:447 DECIMAL. CONFIGURATION: ANY XDS 920 OR XDS 910 WITH PAPER TAPE PUNCH AND TYPEWRITER.

850704 9-SERIES DRUM, P.T. MEMORY BINARY COPY ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY BINARY INFORMATION FROM MEMORY OR PAPER TAPE TO DRUM AND FROM DRUM TO PAPER TAPE.
COMMENTS:
SIZE:802 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 2K MEMORY AND A DRUM.

850705 9-SERIES GENERAL DRUM HANDLER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERAL METHOD OF WRITING AND READING FROM THE DRUM.
COMMENTS:
SIZE:309 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH A XDS MAGNETIC DRUM MEMORY (MODEL 9181).

850706 9-SERIES MOSELEY PLOTTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PLOTS AN X-SHAPED CONFIGURATION OF POINTS TO TEST A PLOTTER
COMMENTS:
SIZE: 265 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH MOSELEY PLOTTER.

850707 9-SERIES LINK 0 BOOTSTRAP FOR DRUM
AUTHOR: XEROX
ABSTRACT:
TO LOAD LINK 0 FROM DRUM TO MEMORY
COMMENTS:
14 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 14K MEMORY AND A DRUM.

850708 9-SERIES FORTRAN II TYPE SUBR. (LONG CARRIAGE)
AUTHOR: XEROX
ABSTRACT:
TO REPLACE THE STANDARD TYPE SUBROUTINE AND TAKE ADVANTAGE OF THE LONG CARRIAGE (130 CHARACTERS)
TYPEWRITER9
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:59 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTERS WITH 4K MEMORY.

850710 9-SERIES GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS
AUTHOR: XEROX
ABSTRACT:
ITERATIVELY TESTS ONE OR TWO SETS OF ANALOG INPUTS FOR ERROR DISTRIBUTIONS.
COMMENTS:
DECIMAL 1024. CONFIGURATION: ANY 910/920 WITH ONE OR TWO ANALOG INPUT MULTIPLEX AND CONVERTERS.

850740 920 SEISMIC DUMP A AND B FORMATS
AUTHOR: XEROX
ABSTRACT:
XDS 920 SEISMIC TAPE DUMP PROGRAMS FOR 9 TRACK GAPPED OR GAPLESS TAPES WITH A OR B FORMAT. THE OUTPUT FROM THESE PROGRAMS IS UTILIZED FOR VERIFICATION OF SEISMIC DATA TAPES.
COMMENTS:
FOUR SEISMIC TAPE DUMP PROGRAMS ARE PROVIDED. ONE FOR EACH OF THE INPUT TAPE FORMATS; A FORMAT GAPPED AFORMAT GAPLESS BFORMAD GAPPED B FORMAT GAPLESS

850742 930 DEE-6D SIMULATOR SYSTEM HANDLERS
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SOFTWARE INTERFACE TO THE SYSTEM HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-6D HARDWARE.

850754 900-SERIES ADAPT COMPILER
AUTHOR: XEROX
ABSTRACT:
ADAPT IS A SYSTEM FOR THE COMPUTER-ASSISTED PROGRAMMING OF NUMERICALLY CONTROLLED MACHINE TOOLS, FLAME CUTTERS, DRAFTING MACHINES, AND SIMILAR EQUIPMENT. IT IS PRODUCTION ORIENTED, THAT IS, IT IS WRITTEN TO SIMPLIFY THE EFFORT, TIME, AND MONEY NEEDED TO TAKE FULL ADVANTAGE OF NUMERICALLY CONTROLLED TECHIQUES

850754 CONTINUED ON FOLLOWING PAGE

850754 ADAPT COMPILER (CONTINUED)
IN ENGINEERING AND MANUFACTURING.
COMMENTS:
SOURCE LANGUAGE: FORTRAN II. CONFIGURATION: ANY XDS 900 SERIES COMPUTER. MONARCH OPERATING SYSTEM CONFIGURATION WITH AT LEAST 16K CORE MEMORY, 3 MAGNETIC TAPES A TYPEWRITER A CARD READER, A LINE PRINTER. (BUFFERED OR UNBUFFERED) AND AN 8-LEVEL PAPER TAPE PUNCH. (OR RAD MONARCH CONFIGURATION).

850785 910 910/925 PROGRAM OPERATOR PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900018, (910/925 PROGRAM OPERATOR TECHNICAL MANUAL)
COMMENTS:
SEE THE TECH MANUAL (900018) FOR THE COMPUTER CONFIGURATION.

850803 9-SERIES HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F
AUTHOR: XEROX
ABSTRACT:
PROVIDES A HIGH SPEED CONVERSION OF FIXED POINT FRACTIONAL BINARY NUMBERS TO BINARY CODED DECIMAL.
COMMENTS:
SIZE: 43 DECIMAL. CONFIGURATION: XDS 910. THIS SUBROUTINES USES OPERATION 04430000 (RIGHT CYCLE ONE AND CLEAR A) WHICH IS NOT A STANDARD OPERATION.

850804 9-SERIES HIGH SPEED SIN-COS POP-SELF FILLING
AUTHOR: XEROX
ABSTRACT:
TO SIMULTANEOUSLY COMPUTE BOTH THE SINE AND COSINE OF AN ANGLE WITH 19 BIT ACCURACY.
COMMENTS:
SIZE: 169 DECIMAL. CONFIGURATION: ANY XDS 910.

850805 9-SERIES HIGH SPEED ARCTANGENT POP-SELF FILLING
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN A/B TO 19 BIT ACCURACY. A AND B ARE NUMBERS IN THE A AND B REGISTER RESPECTIVELY.
COMMENTS:
SIZE: 162 DECIMAL. CONFIGURATION: ANY XDS 910.

850808 9-SERIES 910/925 FORTRAN II SYSTEM (STAND ALONE)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM INCLUDES THE FOLLOWING: TITLES: 910 FORTRAN II COMPILER PERFORMATED TAPE INPUT, 910 FORTRAN II LIBRARY PERFORATED TAPE INPUT, 910 FORTRAN II RUN-TIME PERFORATED TAPE INPUT, AND FORTRAN II LOADER-PAPER TAPE VERSION.
COMMENTS:
SEE MANUAL 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL 900587, 900 SERIES FORTRAN II OPERATIONS MANUAL. SIZE:4096 DECIMAL.

850812 9-SERIES 910/925 FORTRAN II MOD. LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
COMMENTS:
SIZE 277 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850813 9-SERIES 910/925 FORTRAN II 3 CONTR CARDS MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850814 9-SERIES 910/925 FORTRAN II 9 CONTR CARDS MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE: 276 DECIMAL. CONFUGURATION: ANY XDS 910 COMPUTER-THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850815 9-SERIES 910/925 F-II HOLLERITH CONSTANT MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENTS.
COMMENTS:
SIZE: 62 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850816 9-SERIES 910/925 ALGOL 60 BASIC 4K SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: 910/925 COMPUTER WITH AT LEAST 4K MEMORY, TYPEWRITER AND PAPER TAPE I/O. SEE MANUAL NO. 900699.

850830 9-SERIES 910/925 R.T. FORTRAN II (S/A) SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. THE COMPILER, LOADER, AND RUN-TIME ARE ALL DISTRIBUTED ON A SINGLE ABSOLUTE BINARY PAPER TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL, META-SYMBOL. SIZE 8000 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AT LEAST 8000 WORDS OF MEMORY. SEE MANUALS 901048,900003, AND 900587. THIS PROGRAM INCLUDES THE R.T. FORTRAN II COMPILER, LOADER AND RUN-TIME.

850831 9-SERIES XDS PINT 910-BUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER .
COMMENTS:
SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.

850832 9-SERIES XDS 910 PINT-UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.

850833 9-SERIES XDS 910/925 FORTRAN II FORMAT STATEMENTS
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850835 9-SERIES 910/925 FORTRAN II CARD INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
COMMENTS:
SIZE:10 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM

850836 9-SERIES 910/925 FORTRAN II CARD PUNCH TAPE MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.
COMMENTS:
SIZE 71 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850837 9-SERIES 910/925 FORTRAN II CARD OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS
COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE:180 DECIMAL. CONFIGURATION: ANY 910/925 COMPUTER WITH CARD PUNCH. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850841 9-SERIES 910/925 FORTRAN II MAG TAPE OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.
COMMENTS:
SIZE 371 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850842 9-SERIES 910/925 F-II M.T. PAPER TAPE OUTPUT MOD
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.
COMMENTS:
ASSEMBLY LANGUAGE USED: SYMBOL 8. SIZE 442 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE UNIT. THIS MODIFICATION IS APPLICABLE ONLY TO THE STANDALONE FORTRAN II SYSTEM.

850848 9-SERIES 910/925 SORT MERGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 850849 (910/925 SORT) AND 850850 (910/925 MERGE). IT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR 910/925 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS. SEE XDS REFERENCE MANUAL 90097 FOR DESCRIPTION OF USE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.

850857 9-SERIES 910/925 FORTRAN II BUFFERED PRT. MOD.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
COMMENTS:
SIZE:53 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850858 9-SERIES 910/925 FORTRAN II FAST LISTING MOD.
AUTHOR: XEROX
ABSTRACT:
TO IMPROVE THE SPEED WHEN LISTING FORTRAN SOURCE PROGRAMS DURING COMPILATION.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:4 DECIMAL. CONFIGURATION: ANY XDS 910/925 WITH A LINE PRINTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850859 9-SERIES 910/925 FORTRAN II UNBUFFERED PRTR.MOD.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
COMMENTS:
SIZE 124 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850862 9-SERIES 910 FORTRAN DRUM LINKING SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE STANDARD 910 FORTRAN SYSTEM WITH THE DRUM LINKING CAPABILITY.
COMMENTS:
CONFIGURATION: ANY 910 COMPUTER WITH 4K OF MEMORY AND A DRUM (XDS 9181).

850864 9-SERIES FORTRAN II DRUM READ/WRITE MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE:33 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9181). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

850914 9-SERIES LINEAR INTERPOLATION-1 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHTLINE INTERPOLATION IN A TABLE OF X, F(X) PAIRS, WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 23 DECIMAL. SOURCE LANGUAGE:META-SYMBOL. CONFIGURATION:ANY 920/930.

850915 9-SERIES LINEAR INTERPOLATION-2 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X, Y, F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 74 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

850916 9-SERIES LINEAR INTERPOLATION-3 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y, Z F (X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 135 DECIMAL. SOURCE LANGUAGE:META-SYMBOL CONFIGURATION:ANY 920/930.

850919 920 920/930 PROGRAMMED OPERATOR PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900020. (920/930 PROGRAM OPERATOR TECHNICAL MANUAL).
COMMENTS:
SEE THE TECH MANUAL (900020) FOR THE COMPUTER CONFIGURATION.

850957 9-SERIES 920/930 FORTRAN II SYSTEM (STAND ALONE)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE STAND-ALONE 920/930 FORTRAN-II PACKAGE CONSISTING OF COMPILER, LOADER AND RUN-TIME/LIBRARY
COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE 4096 DECIMAL. THIS PROGRAM COVERS 850958,850959,850960. SEE MANUALS 900587, 900 SERIES FORTRAN II OPERATIONS,900003,900 SERIES FORTRAN II REFERENCE MANUAL AND 901048,900 SERIES FORTRAN II TECHNICAL MANUAL. CONFIGURATION: ANY 920/930 COMPUTER.

850963 9-SERIES FORTRAN II FORMATS-AT RUN-TIME MOD.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE:39 DECIMAL. CONFIGURATION:ANY 920 /930 COMPUTER.

850964 9-SERIES FORTRAN-9 CONTINUATION CARD MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE:190 DECIMAL. ANY 920/930 COMPUTER.

850965 9-SERIES FORTRAN II MODIFICATION LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
COMMENTS:
SIZE:277 DECIMAL. CONFIGURATION:ANY 920/930 COMPUTER.

850966 9-SERIES FORTRAN-3 CONTINUATION CARD MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
ANY 920/930 COMPUTER.

850967 9-SERIES FORTRAN HOLLERITH LITERALS MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENT.
COMMENTS:
SIZE:50 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.

850968 9-SERIES GO MO KU
AUTHOR: XEROX
ABSTRACT:
GO MO KU IS A SELF-CONTAINED COMPUTER PROGRAM WHICH ENABLES THE COMPUTER TO PLAY GO MO KU (5 IN A ROW.

850968 CONTINUED ON FOLLOWING PAGE

850968 GO MO KU (CONTINUED)
THE RULES OF THE GAME ARE BEST DESCRIBED BY COMPARING IT WITH TIC-TAC-TOE. IF TICTAC-TOE IS DEFINED AS A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 3 IN A ROW ON A3 BY 3 BOARD, THEN GO MO KU IS A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 5 IN A ROW ON A 15 BY 15 BOARD.
COMMENTS:
SIZE:4096 DECIMAL. CONFIGURATION: 4K XDS 920.

850970 9-SERIES 920/930 ALGOL 60 BASIC 4K SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
COMMENTS:
THIS IS THE STAND-ALONE ALGOL SYSTEM CONSISTING OF COMPILER, LOADER AND LIBRARY/RUNTIME.

850984 9-SERIES 920/930 REAL TIME FORTRAN II (COVER)
AUTHOR: XEROX
ABSTRACT:
FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING,LOADING, AND EXECUTING FORTRAN II PROGRAMS.
COMMENTS:
SEE MANUAL NO. 901048:920/930 REAL TIME FORTRAN II TECHNICAL MANUAL,MANUAL NO.900003: 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL NO. 900587: 900 SERIES FORTRAN II OPERATIONS MANUAL.

850985 9-SERIES PINT 920/930 BUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO.901023, XDS REFERENCE MANUAL.

850986 9-SERIES PINT 920/930 UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER (9372).
COMMENTS:
SEE MANUAL NO.901023,XDS REFERENCE MANUAL.

850989 9-SERIES 920/930 FORT II CARD/PAPER TAPE INPT MOD
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.
COMMENTS:
SIZE 57 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.

850990 9-SERIES 920/930 FORTRAN II CARD INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
COMMENTS:
SIZE: 8 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.

850991 9-SERIES 920/930 FORTRAN II CARD OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS.
COMMENTS:
SOURCE LANGUAGE:META/SYMBOL. SIZE: 120 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD PUNCH.

850992 9-SERIES 920/930 FORTRAN II MAG TAPE INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
THIS MODIFICATION TO THE XDS 920 FORTRAN II COMPILER REPLACES THE PAPER TAPE INPUT CODING WITH CODING TO INPUT SOURCE CARD IMAGES FROM MAGNETIC TAPE, LOGICAL, UNIT NO. 2.
COMMENTS:
SIZE 133 DECIMAL. CONFIGURATION: ANY 920 COMPUTER WITH A MAGNETIC TAPE UNIT.

850997 9-SERIES 920/930 FORT II MAG TPE/PAPER TPE OUTPUT
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 282 DECIMAL. CONFIGURATION ANY 9.0/930 COMPUTER WITH A MAGNETIC TAPE UNIT.

850998 9-SERIES 920/930 FORTRAN II MAG TAPE OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 238 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH A MAGNETIC TAPE

851006 9-SERIES 920/930 SORT MERGE (COVER)
AUTHOR:XEROX CORPORATION
ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 851007 (920/930 SORT) AND 851008 (920/930 MERGE). IT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR 920/930 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS.
SEE XDS REFERENCE MANUAL 900997 FOR DESCRIPTION OF USE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.

851010 9-SERIES PAYROLL GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED ON AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.
THIS PROGRAM WORKS ONLY UNDER MANAGE.

851012 9-SERIES BUFFERED LINE PRINTER TRACE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW EXECUTION OF ALMOST ALL OBJECT PROGRAM INSTRUCTIONS AND PRODUCE A LINE PRINTER LISTING OF THE DESIRED INSTRUCTIONS IN SEQUENCE OF THEIR EXECUTION ALONG WITH THE INTERMEDIATE RESULTS.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 544 DECIMAL. CONFIGURATION: ANY 920 OR 930 WITH LINE PRINTER.
RELOCATABLE BINARY CARDS ALSO AVAILABLE ON 930 RAD MONARCH SYSTEM

851014 9-SERIES 920/930 RTF II INBUF. PRT. COMPILER MOD
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN UNBUFFERED PRINTER CAPABILITY FOR THE 920/930 REAL TIME FORTRAN II COMPILER.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 64 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH 8K (OR MORE) MEMORY AND A MODEL 9372 UNBUFFERED PRINTER ON CHANNEL A.

851015 9-SERIES FORTRAN BUFFERED PRINTER MODIFICATION
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
COMMENTS:
SIZE: 43 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173).

851017 9-SERIES 920/930 FORTRAN II COMPILER UNBUF. PRT.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
COMMENTS:
SIZE:80 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).

851019 9-SERIES 92 SIMULATOR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FUTURE 92 USER WITH THE FACILITY TO DEBUG HIS 92 PROGRAMS PRIOR TO TAKING DELIVERY OF HIS MACHINE. A COMPLETE SET OF DEBUGGING AIDS IS INCLUDED.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 6644 DECIMAL. CONFIGURATION. ANY 920 WITH A TYPEWRITER AND WITH AT LEAST 8K MEMORY. A LINE PRINTER IS REQUIRED FOR TRACE AND DUMP OPTIONS.

851028 9-SERIES FORTRAN DRUM READ/WRITE STATEMENTS
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE 27 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9181).

851027 920 JPL TCP ANALOG EQUIPMENT DEMONSTRATION
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO DEMONSTRATE AND CALIBRATE THE JPL TCP ANALOG EQUIPMENT EXPANSION KITS.

851047 9-SERIES DOUBLE PRECISION FLOATING POINT POP
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPERATION OF FLOATING POINT INSTRUCTIONS ON THE XDS 930.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE:233 DECIMAL. CONFIGURATION: ANY XDS 930 COMPUTER.

851064 930 HYBRID EXEC. LIB. FOR AEROSPACE CORP.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A LIBRARY OF INTERCONNECTED SUBROUTINES WHICH ENABLES THE USER TO CONTROL HYBRID SYSTEM HARDWARE.
COMMENTS:
SOURCE LANGUAGE:META/SYMBOL. SIZE:3865. CONFIGURATION: 900 SERIES REAL-TIME MONITOR CONFIGURATION.

851108 9-SERIES PAPER TAPE - TYPEWRITER HANDLER 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 337 DECIMAL. CONFIGURATION: ANY 925/930 WITH A TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.

851108 9-SERIES 925/930 CARD PUNCH AND VERIFY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COPY CARD IMAGES ON TAPE, AND TO REPRODUCE OR VERIFY THOSE IMAGES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 535 DECIMAL. CONFIGURATION: ANY 925/930, 9158 CARD PUNCH, CHANNEL H, CARD READER, MAG TAPE.

851109 9-SERIES CARD READ SUBROUTINE (CDR)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERUPTS ARE ENABLED AND USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 134 DECIMAL. CONFIGURATION: ANY 925/930 WITH A CARD READER ATTACHED TO AN INTERLACED CHANNEL.

851112 9-SERIES MAGNETIC TAPE HANDLER (EXTENDED MODE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL. CONFIGURATION: ANY XDS 925/930 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.

851116 9-SERIES DSC-1 DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-1 TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851121 925 925/930 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 260 OCTAL WORDS. CONFIGURATION: ANY XDS 925 OR 930 WITH A BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

851131 900-SERIES SNAPSHOT SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL PERFORM SNAPSHOT AT SELECTED POINTS IN CORE. SNAPSHOT IS CALLED AS A SUBROUTINE. SNAPSHOT WILL ALSO INSERT CORRECTIONS IN CORE. EACH SNAPSHOT PRINTS THE P,A,B,X REGISTERS ALONG WITH THE BLOCK LIST SPECIFIED. INPUT PARAMETERS ARE READ FROM THE CARD READER.ILLEGAL CONTROL CARDS ARE PRINTED ON THE TYPEWRITER.
COMMENTS:
COMPUTER CONFIGURATION REQUIRED: ANY 910,920,925,930 COMPUTER WITH A CARD READER,PRINTER AND TYPEWRITER. THIS RELOCATABLE PROGRAM REQUIRES 571 OCTAL LOCATIONS.

851143 900-SERIES UTILITY PACKAGE
AUTHOR: XEROX
ABSTRACT:
PROVIDES ALL ASPECTS OF MAGNETIC TAPE PROCESSING RELATED TO UTILITY USAGE.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. CON:ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER,TWO MAG TAPES AND CARD READER.

851144 900-SERIES LIST TAPE ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LIST A SYMBOLIC TAPE OF UP TO 33 WORDS PER RECORD AT THE I/O DEVICE SPEED. THREE OPTIONS ARE PROVIDED VIA BREAKPOINT SWITCHES LISTING THE FIRST 25 RECORDS OR ALL RECORDS IN A FILE HALTING ON AN EOF ACCEPTING OR IGNORING A RECORD WHEN A READ ERROR OCCURS
COMMENTS:
COMPUTER CONFIGURATION: ANY 910,925,920,930 COMPUTER WITH A CARD READER,PRINTER,MAGNETIC TAPE,INTERLACE CONTROL AND TYPEWRITER. THE PROGRAM IS LOADED BY THE STANDARD LOAD PROCEDURES FOR A BINARY PROGRAM

851145 910 15 KC MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS INTENDED TO EXERCISE 15 KC MAGNETIC TAPE UNITS SUCH AS THE 9146. THE TAPE UNIT MUST BE ATTACHED TO THE Y BUFFER. A TYPEWRITER MUST BE CONNECTED TO THE W BUFFER.
COMMENTS:
THIS PROGRAM WILL WORK WITH ANY XDS 900 SERIES COMPUTER. THE PROGRAM OPERATES IN EITHER THE PROGRAM CONTROL MODE OR THE INTERLACE CONTROL MODE. THE Y BUFFER INTERRUPTS ARE ULTILIZED BY THE PROGRAM.

851149 92 LN-FLOATING-POINT NATURAL LOGARITHM
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS EXPONENTIAL (BASE E)
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 133 DECIMAL. CONFIGURATION: ANY XDS 92.

851150 92 SIN/COS-FLOATING-POINT SINE-COSINE SUBR.
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS SINE OR COSINE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 178 DECIMAL. CONFIGURATION: ANY XDS 92.

851151 92 ATAN-FLOATING-POINT ARCTANGENT SUBR.
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED NORMALIZED FLOATING-POINT ARGUMENTS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 248 DECIMAL. CONFIGURATION: ANY XDS 92.

851158 92 92 SYMBOL
AUTHOR: XEROX
ABSTRACT:
TO ASSEMBLE SOURCE LANGUAGE PROGRAMS WRITTEN IN THE XDS 92 SYMBOL ASSEMBLY LANGUAGE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 4098 DECIMAL. CONFIGURATION: ANY XDS 92 WITH AT LEAST 4K MEMORY.

851159 92 PAPER TAPE+TYPEWRITER SUBROUTINE(PTYIO)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A PAPER TAPE READER OR CONSOLE TYPEWRITER AND PERFORMING THESE FUNCTIONS IN

851159 CONTINUED ON FOLLOWING PAGE

851159 PAPER TAPE+TYPEWRITER SUBROUTINE(PTYIO) (CONTINUED)
EITHER BCD OR BINARY MODE. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 276 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER, A PAPER TAPE PUNCH,OR A CONSOLE TYPEWRITER ATTACHED TO THE I/O CHANNEL.

851160 92 BINARY PAPER TAPE RELOCATING BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ONE CONTINING AN EXTERNAL REFERENCE/DEFINITION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 306 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.

851161 92 BINARY PAPER TAPE BOOTSTRAP LOADER
AUTHOR: XEROX
ABSTRACT:
TO RELOCATE INTO UPPER MEMORY BINARY PAPER TAPE OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ON CONTAINING AN EXTERNAL REFERENCE/DEFINITION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 302 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.

851162 92 UNIVERSAL BINARY LOADER (QUBLDR)
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS INTO MAIN (CORE) MEMORY FOR EXECUTION. PROGRAMS TO BE LOADED MUST BE PRESENTED TO THE LOADER IN THE OBJECT PROGRAM FORMAT EMPLOYED BY XDS 92 SYMBOL.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 803 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER AND TYPEWRITER. THE LOADER IS AVAILABLE ON PAPER TAPE BUT CAN LOAD PROGRAMS WHICH EXIST EITHER ON PUNCHED CARDS OR PAPER TAPE.

851163 92 BINARY PAPER TAPE RELOCATING UPPER LOADE
AUTHOR: XEROX
ABSTRACT:
TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/ DEFINITION. THIS LOADER DIFFERS FROM CATALOG NO. 851160, IN THAT IT RESIDES IN UPPER MEMORY (THE LAST 278 LOCATIONS) AND ONCE LOADER, DOES NOT USE ANY LOWER MEMORY OTHER THAN SCRATCHPAD (0-31).
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 278 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.

851167 92 CARD READ HANDLER (CDR)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING 80-COLUMN CARDS PUNCHED IN EITHER BCD (HOLLERITH CODED) OR BINARY FORMAT. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 126 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A CARD READER, ATTACHED TO THE I/O CHANNEL.

851169 92 MAGNETIC TAPE SUBROUTINE (MTAPE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING AND/OR WRITING VARIABLE LENGTH RECORDS IN EITHER BCD OR BINARY MODES. BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A MAGNETIC TAPE UNIT, ATTACHED TO THE I/O CHANNEL AT 200, 556, OR 800 BPI DENSITY.

851176 92 MEMORY TO LINE PRINTER OCTAL DUMP
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
COMMENTS:
SIZE 80 DECIMAL. CONFIGURATION: ANY XDS 92 WITH LINE PRINTER AND PAPER TAPE OR CARD READER.

851177 92 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 184 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A LINE BUFFERED PRINTER, ATTACHED TO THE I/O CHANNEL.

851178 92 MOD. 9372 UNBUF. LINE PRINTER.SUBR.(PRIN
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 466 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.

851188 92 92 BASIC UTILITY PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 92.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 840 DECIMAL WORDS. CONFIGURATION: ANY XDS 9300 COMPUTER.

851220 900-SERIES MANAGE SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
XDS MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE DECISION MAKING.IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL COMPANY RECORDS ON MAGNETIC TAPE,SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS,AND GENERATE PRINTED REPORTS OF THE DATA WHEN REQUESTED.

851257 900-SERIES 925/930 RTM STAND-ALONE UPDATE
AUTHOR:XEROX
ABSTRACT:
THIS ROUTINE IS USED TO UPDATE 925/930 RTM SYSGEN TAPES.
COMMENTS:
SOURCE LANGUAGE:METASYMBOL. CONFIGURATION: XDS 925/930 WITH 8K MEMORY (MINIMUM).

851258 910 910/925 MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PREFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION
COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE. MAG TAPES, AND UNBUFFERED PRINTER.

851259 920 920/930 MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, AND UNBUFFERED PRINTER.

851260 925 925 RAD MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9367 DISC FILE, AND UNBUFFERED PRINTER.

851261 930 930 RAD MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9367 DISC FILE, AND UNBUFFERED PRINTER.

851290 9-SERIES MONARCH MPRNT (UNBUF)
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTER.

851291 9-SERIES MONARCH PRINT (UNBUF)
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTERS.

851292 9-SERIES MONARCH CDRP
AUTHOR: XEROX
ABSTRACT:
TO OBTAIN A BINARY CARD IMAGE FROM CARD READER.

851293 9-SERIES MONARCH PTYIO
AUTHOR: XEROX
ABSTRACT:
TO OBTAIN CONTROL MESSAGE RECORDS FROM A PAPER-TAPE READER OR A TYPEWRITER AND TO TYPE CONTROL MESSAGES AND ERROR MESSAGES ON TYPEWRITER.

851294 9-SERIES MONARCH MTAPE
AUTHOR: XEROX
ABSTRACT:
TO PERFORM MAGNETIC TAPE INPUT AND OUTPUT FUNCTIONS REQUESTED BY THE MONARCH CONTROL AND ACTION ROUTINES.

851295 9-SERIES MONARCH PRINT
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL AND ERROR MESSAGES ON LINE PRINTER.

851298 930 EXT.I/O TEST (NAV.TOR.STA.SYS.,ADD-ON)
AUTHOR:S. GOOD
ABSTRACT:
THIS PROGRAM EXERCISES THE 12 EXTERNAL INPUTS (PIN) AND THE 12 EXTERNAL OUTPUTS (POT) OF THE NAVAL TORPEDO STATION SYSTEM (ADD-ON)..
COMMENTS:
IN THE 'POT' MODE, THE OPERATOR TYPES IN THE OCTAL VALUE TO BE OUTPUT AND THIS VALUE IS SEQUENTIALLY 'POTTED' BY ALL OF THE 12 EXTERNAL OUTPUTS. IN THE 'PIN' MODE, THE VALUE OF EACH OF THE 12 EXTERNAL INPUTS IS SEQUENTIALLY TYPED, IN OCTAL.

851300 900-SERIES 925/930 FORTRAN IV LIBRARY
AUTHOR:XEROX
ABSTRACT:
THIS PROGRAM IS A COVER NUMBER FOR THE COMPLETE FORTRAN IV LIBRARY. IT INCLUDES CATALOG NUMBERS 851301 THROUGH 851468.

851500 900-SERIES 925/930 REAL-TIME MONITOR
AUTHOR:XEROX
ABSTRACT:
THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES. COMPILATIONS AND OTHER PROGRAM OPERATION IN A REENTRANT, ONLINE REAL TIME MODE WILL NOT RUN ON 910/920. FOR REDUCTION.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS 851502 THRU 851578. THE -85 ELEMENT CONTAINS: REAL TIME MONITOR SYMBOL ASSEMBLER, REAL TIME FORTRAN IV COMPILER, AND REAL TIME FORTRAN IV LIBRARY.

851579 930 ARRAYS PROGRAM FOR NAVAL TORPEDO STATION
AUTHOR: XEROX
ABSTRACT:
TO TEST THE INPUT HARDWARE THAT SAMPLES THE ARRAYS.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. COMPUTER CONFIGURATION:NAVAL TORPEDO STATION SYSTEM (ADD-ON) (930)

851583 900-SERIES 900 SERIES FORTRAN IV COMPILER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM ALLOWS COMPILATION ON ANY 900 SERIES MACHINE OF PROGRAMS WRITTEN IN XDS FORTRAN IV, WITH THE EXCEPTION OF THOSE STATEMENTS AS NOTED IN THE XDS FORTRAN IV REF MANUAL AND APPLICABLE NSS MEMOS.
COMMENTS:
ITS LIMITATIONS ARE DESCRIBED IN 851500-11 BUT NO OTHER FORMAL DOCUMENTATION EXISTS.

851586 92 FLN -FLOATING NEGATE SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO NEGATE A FLOATING-POINT NUMBER IN THE PSEUDO ACCUMULATOR

851587 92 FLOAT -FIXED TO FLOATING SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO FLOAT A FIXED-POINT TWO'S COMPLEMENT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING IN THE B REGISTER TO A FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR.

851588 92 FIX -FLOATING TO A FIXED SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR TO A TWO'S COMPLEMENT FIXED POINT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING SPECIFIED IN THE B REGISTER.

851589 92 DVASIM -SIMULATED DVA INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL DVA INSTRUCTION WHEN A DVA TRAP OCCURS

851590 92 DVBSIM -SIMULATED DVB INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL DVB INSTRUCTION WHEN A DVB TRAP OCCURS

851591 92 MUASIM -SIMULATED MUA INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL MUA INSTRUCTION WHEN AN MUA TRAP OCCURS

851592 92 MUBSIM -SIMULATED MUB INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL MUB INSTRUCTION WHEN AN MUB TRAP OCCURS

851593 92 NORMZ -FLOATING NORMALIZE SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO NORMALIZE A FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR

851594 92 SQRT -FLOATING-POINT SQUARE ROOT SUBRT.
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS SQUARE ROOT

851595 92 EFFADR -EFFECTIVE ADDRESS ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO DETERMINE THE EFFECTIVE ADDRESS OF AN INSTRUCTION. THE EFFECTIVE ADDRESS IS PLACED IN BITS 9-11 OF LOCATION 20 AND IN LOCATION 21

851596 92 EXP -FLOATING POINT EXPONENTIAL
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS EXPONENTIAL

851597 92 FLOATING POINT ARITHMETIC PKGE. FLPT92
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE FLOATING-POINT CAPABILITY FOR XDS 92. THE FLOATINGPOINT PACKAGE CONSISTS OF: FLA - FLOATING ADD FLS - FLOATING SUBTRACT FLM - FLOATING MULTIPLY FLD - FLOATING DIVIDE LDT - LOAD TRIPLE PRECISION NORMZ - NORMALIZE FLOATING POINT NO.(SEE CAT. NO. 703008)

851598 900-SERIES 910 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
910 SYMBOL 4 IS DESIGNED TO RUN ON A XDS 910 WITH 4096 WORDS OF MEMORY, A TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851599 900-SERIES 910 SYMBOL 4 BUF. LINE PRINTER MOD.
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851600 900-SERIES 910 SYMBOL 4 UNBUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT THE LIST OUTPUT IN SYMBOL FROM THE TYPEWRITER TO THE 9170 LINE PRINTER.

851601 900-SERIES 910 SYMBOL 4 TABLE PRINTER
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL 4 ASSEMBLER.

851602 900-SERIES 910/920 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 910/920 WITH 4096 WORDS OF MEMORY, TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851603 900-SERIES 910/920 SYMBOL 4 UNBUF. PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851604 900-SERIES 920 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851605 900-SERIES 920 SYMBOL 4 BUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851606 900-SERIES 920 SYMBOL 4 UNBUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851607 900-SERIES 920 SYMBOL 4 TABLE PRINTER
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL ASSEMBLER.

851608 900-SERIES 920/910 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/910 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

851609 900-SERIES 920/910 SYMBOL 4 BUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851610 900-SERIES 920/910 SYMBOL 4 UNBUF. PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

851611 900-SERIES 920/930 SYMBOL & BUF. PRINTER VERSION
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/930 WITH 8K-16K MEMORY, 9173 LINE PRINTER, PAPE TAPE INPUT.

851612 900-SERIES 920/930 SYMBOL & UNBUF. PRINTER VERSION
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/930 WITH 8K-16K MEMORY, 9170 LINE PRINTER, PAPER TAPE INPUT.

851613 9-SERIES 1-CARD DUMP PUNCH PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PUNCH OUT A 1-CARD DUMP FOR A CARD-READER ON ANY CHANNEL AND/OR TO PUNCH OUT THE SAME DUMP PROGRAM ON A PAPER TAPE STATION ATTACHED TO ANY CHANNEL. THE DUMP ITSELF MAY BE PLACED ON A PRINTER ATTACHED TO ANY CHANNEL.
COMMENTS:
COMPUTER CONFIGURATION: ANY 9-SERIES COMPUTER WITH META-SYMBOL ON THE SYSTEM

851614 9-SERIES RAD TO MAGNETIC TAPE DUMP
AUTHOR: XEROX
ABSTRACT:
RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2 MILLION, 1 MILLION OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

852000 9-SERIES 9-SERIES SOFTWARE NOTES COVER
AUTHOR:XEROX CORPORATION
ABSTRACT:
THIS CATALOG NUMBER EXISTS FOR THE SOLE PURPOSE OF IMPLEMENTING THE 9-SERIES TECHNICAL NOTE CONCEPT WHICH IS DESCRIBED IN THE -11. IT IS EFFECTIVELY A REFERENCE COVER NUMBER FOR ALL 9-SERIES SOFTWARE (INCLUDING USER'S GROUP ITEMS) BUT HAS NO ORDERABLE ELEMENTS OTHER THAN THE PROGRAM DESCRIPTION (-11).
COMMENTS:
SUBSCRIPTIONS TO THE TECHNICAL NOTE SYSTEM ARE AVAILABLE BUT MUST BE PROCESSED THROUGH THE USERS' GROUP.

860000 9300 TAPE MONITOR SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE EFFICIENT SYSTEM OPERATIONS WITH MINIMUM OPERATOR INTERVENTION AND AN EASY-TO-USE INPUT/OUTPUT FACILITY HAVING MAXIMUM EFFICIENCY WHILE TAKING INTO ACCOUNT THE NEEDS OF THE USER'S PROGRAM (I/O OPERATIONS ARE PERFORMED SIMULTANEOUSLY WITH THE USER'S PROGRAM). THE RESIDENT MONITOR REQUIRES 11653 OCTAL LOCATIONS WITH THE PROCESSORS BEING OVERLAYED ('PING-PONGED') ABOVE THIS LOCATION.
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 860001 THRU 860006, 860008 THRU 860031, 861080, AND 861081.

860035 9300 FORT IV COMPILER AND LIBRARIES
AUTHOR:XEROX
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 860036 THRU 860074 AND COVER NUMBERS 860095 AND 860265.

860075 9300 META-SYMBOL ASSEMBLER-COVER
AUTHOR: XEROX
ABSTRACT:
THE PRIMARY PURPOSE OF THE META-SYMBOL ASSEMBLY SYSTEM IS TO PROVIDE USER'S OF XDS COMPUTERS A PROCESSOR CAPABLE OF TRANSLATING SYMBOLIC LINES OF CODE (WRITTEN IN AN ADVANCED ASSEMBLY LANGUAGE) TO MACHINE LANGUAGE AND TO PROVIDE THE USER A LISTING OF THE MACHINE LANGUAGE GENERATED AS WELL AS A LOADABLE PROGRAM TAPE OR DECK.
COMMENTS:
ANY XDS 9300 WITH A MINIMUM OF 8K MEMORY. SEE MANUAL NO. 900827: META-SYMBOL TECHNICAL MANUAL FOR A MORE DETAILED DESCRIPTION OF THE COMPUTER REQUIREMENTS

860095 9300 FORTRAN IV LIBRARY
AUTHOR:XEROX
COMMENTS:
THIS IS A PROGRAM PACKAGE CONTAINING ALL THE FORTRAN IV LIBRARY ROUTINES. ABSOLUTE BINARY CARDS ARE AVAILABLE ON MAG TAPE (860000-85), RELOCATABLE BINARY CARDS AVAILABLE ON MAG TAPE (860000-25).

860265 9300 REAL-TIME FORTRAN IV LIBRARY
AUTHOR:XEROX
COMMENTS:
THIS IS THE COVER NUMBER FOR THE REAL TIME FORTRAN IV LIBRARY. ABSOLUTE BINARY CARDS ARE AVAILABLE ON 860265-85, THE ABSOLUTE BINARY TAPE.

860460 9300 MACHINE LANGUAGE LIBRARY (COVER)
AUTHOR: XEROX
COMMENTS:
THIS COMMON SOFTWARE PACKAGE CONSISTS OF THE FOLLOWING ROUTINES: CARD READ SUBROUTINE-CDR, I/O HANDLER-CDRP, FLOATING POINT ARCTANGENT-ATF, FLOATING POINT SINE (COSINE)-SNF (CSF), FLOATING POINT COMPLEX, FLOATING POINT COMPLEX EXPONENTIAL, FLOATING POINT COMPLEX LOGARITHM, FLOATING POINT COMPLEX SQUARE ROOT -SQFC, FLOATING POINT COMPLEX ARCTANGENT-ATFC, FLOATING COMPLEX SINE AND COSINE-SNFC, FLT.PT. EXTENDED PRECISION SQUARE ROOT, FLT.PT. EXTENDED PRECISION NATURAL LOG, FLT. PT. EXTENDED PRECISION ARCTAN-ATFE, DECIMAL/BINARY CONVERSION, DECIMAL TO BINARY CONVERSION-DTBFX, PAPER TAPE AND TYPEWRITER SUBROUTINE-PTYIO, LINE PRINTER SUBROUTINE (PRINT), FLOATING NEGATE SUBROUTINE-FLN, EXPONENTIAL OF A-EXP, SIN OR COS OF A-SIN COS, ARCTAN OF A-ATN, SQUARE ROOT OF A-SQR, SQUARE ROOT FLOATING POINT-SQF, FLOATING POINT LOG-ARITHM-LGF, AND FLOATING-HYPERBOLIC SINE AND COSINE-SHF.

860475 9300 9300 MANAGE SYSTEM (COVER)
AUTHOR: XEROX
COMMENTS:
THIS IS THE COVER NUMBER FOR THE XDS 9300 MANAGE SYSTEM. THIS PROGRAM PACKAGE CONTAINS THE FOLLOWING CATALOG NUMBERS: 860476 THRU 860489. PLEASE SEE THE APPROPRIATE PROGRAM FOR THE COMPUTER CONFIGURATION.

860490 9300 9300 BUSINESS LANGUAGE LIBRARY-COVER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM CHARACTER MANIPULATIONS, WORD MANIPULATIONS, DECIMAL ARITHMETIC, EDITING, AND INTERNAL SORTING FOR THE BUSINESS APPLICATIONS PROGRAMMER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL/XDS BUSINESS LANGUAGE SIZE: 1585 WORDS, WITH ALL SUBROUTINES RESIDENT. COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER, UNDER MONARCH, OR THE 9300, UNDER MONITOR.

860530 9300 MONARCH SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES/ 9300 COMPUTER WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES. FOR DETAILS, SEE MONARCH REFERENCE MANUAL. (NO. 900568)

860563 9300 MEDIA
AUTHOR:XEROX
ABSTRACT:
MEDIA WILL COPY VARIABLE LENGTH RECORDS FROM BCD OR BINARY CARDS, PAPER OR MAG TAPE OR TYPEWRITER TO CARDS, PAPER TAPE, MAG TAPES, TYPEWRITER AND/OR LINE PRINTER.
COMMENTS:
THIS PROGRAM IS INCLUDED ON 860000, 9300 TAPE MONITOR, 860530, 9300 MONARCH. ITS SOURCE IS IDENTICAL TO THAT FOR 850642. THE ABSOLUTE BINARY (STAND-ALONE) DECK CONTAINS THE REQUIRED I/O ROUTINES.

860592 9300 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM. WHICH CONSISTS OF THE FOLLOWING PROGRAMS; CATALOG NO.-860593 860594 860595 860596 860597 860598
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE,2 MAGNETIC TAPES,A TYPE WRITER,PAPER TAPE OR PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE.

860605 9300 9300 PAPER TAPE BASIC RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM PAPER TAPE WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
COMMENTS:
SIZE: 68 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH PAPER TAPE READER.

860606 9300 9300 DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN FUNCTIONS WHICH MAY BE PERFORMED BY THIS ROUTINE, IE: 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:
SIZE: 498 DECIMAL WORDS.CONFIGURATION: ANY XDS 9300 COMPUTER.

860607 9300 BASIC UTILITY PACKAGE 9300
AUTHOR: XEROX
ABSTRACT:
860607-84A00 ABSOLUTE BINARY CARDS
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 9300. THE PACKAGE ALLOWS ABSOLUTE OCTAL OR DECIMAL ENTRY FROM THE KEYBOARD,PAPER TAPE,OR CARD READER AND WILL PRODUCE MEMORY LISTING ON THE TYPEWRITER OR OUTPUT(ABSOLUTE) ON EITHER PAPER TAPE OR CARDS,AND TO READ ABSOLUTE OR RELOCATABLE BINARY TAPES OR DECKS.THE PACKAGE CAN BE USED DURING PROGRAM DEBUGGING FOR SETTING INITIAL CONDITIONS IN THE REGISTERS FROM ONE OF THE ENTRY MEDIA AND THEN STARTING COMPUTATION FROM A PRESELECTED POINT.THE PACKAGE WILL ALSO PRODUCE A SNAPSHOT OF THE REGISTERS DURING A PROGRAM RUN USING INTERRUPT 32.COMPUTATION CAN BE
COMMENTS:
RESUMED WITH THE REGISTERS RESTORED OR ALTERED FROM THE POINT OF INTERRUPTION.
SOURCE LANGUAGE:META-SYMBOL SIZE: 840 DECIMAL WORDS CONFIGURATION:ANY XDS 9300 COMPUTER

860608 9300 BINARY DUMP PAPER TAPE OR CARDS
AUTHOR: XEROX
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT ON PAPER TAPE OR CARDS .WHEN DUMPING ONTO PAPER TAPE, THE PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
COMMENTS:
SOURCE LANGUAGE:SYMBOL SIZE: 251 DECIMAL WORDS CONFIGURATION: ANY XDS COMPUTER WITH PAPER TAPE AND/OR CARD I/O

860609 9300 UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SIZE: 546 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.

860610 9300 9300 REAL TIME DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE UTILITY PROGRAM WHICH WILL AID THE USER IN DEBUGGING UNDER AN INTERRUPT ENVIRONMENT. IT IS PARTICULARLY USEFUL FOR LARGE, COMPLEX SYSTEM PROGRAMS, SUCH AS MONITORS AND OTHER REAL-TIME FUNCTIONS. OPERATIONS WHICH MAY BE PERFORMED BY THIS PROGRAM: DUMPS,ALTERATIONS, INSERTIONS, SNAPSHOTS, SELECTIVE TRACING, PROGRAM LOADING AND PUNCHING.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH TYPEWRITER (A CHANNEL) AND INTERLACE. BUFFERED PRINTER, CARD READER, CARD PUNCH, PAPER TAPE READER AND PUNCH ARE OPTIONALLY REQUIRED FOR CERTAIN DEBUG FUNCTIONS.

860611 9300 UTILITY AND DEBUG PACKAGE (AID)
AUTHOR: XEROX
ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINES AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.
COMMENTS:
SOURCE LANGUAGE: META SYMBOL SIZE: 2606 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CONSOLE TYPEWRITER.

860612 9300 RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP.HOWEVER, THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.
COMMENTS:
SIZE: 93 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER.

860613 9300 RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCCESS IS SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER,THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.
COMMENTS:
SIZE: 103 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860614 9300 POLYNOMIAL EVALUATION (COMPLEX ARGUMENT)
AUTHOR: XEROX
ABSTRACT:
TO EVALUATE AN NTH ORDER POLYNOMIAL WITH REAL COEFFICIENTS FOR A COMPLEX ARGUMENT, A+BI.
COMMENTS:
SIZE: 61 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860615 9300 ADAMS-MOULTON DIFFERENTIAL EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STOP.
COMMENTS:
SIZE: 208 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER

860616 9300 FLOATING NEGATE SUBROUTINE - FLN
AUTHOR: XEROX
ABSTRACT:
TO NEGATE THE FLOATING POINT CONTENTS OF (A,B).
COMMENTS:
SIZE: 26 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860617 9300 PROGRAMMED FLOATING POINT PACKAGE-FLPT
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE FLOATING-POINT HARDWARE ON AN XDS 9300 WHICH DOES NOT HAVE HARDWARE FLOATING-POINT OR ON WHICH THE HARDWARE FLOATING POINT HAS BEEN DISABLED.
COMMENTS:
SIZE: 150 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860618 9300 EXPONENTAIL OF A - EXP
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E) OF A SPECIFIED ARGUMENT.
COMMENTS:
SIZE: 63 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860619 9300 SIN OR COS OF A - SIN COS
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS.
COMMENTS:
SIZE: 59 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860620 9300 ARCTAN OF A - ATN
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS AND QUADRANTAL-LOCATE THE RESULTS.
COMMENTS:
SIZE: 87 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860621 9300 DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION PRODUCT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
COMMENTS:
SIZE: 29 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860622 9300 SQUARE ROOT OF A - SQR
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SQUARE ROOT OF A SPECIFIED ARGUMENT.
COMMENTS:
SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860623 9300 SQUARE ROOT FLOATING POINT - SQF
AUTHOR: XEROX
ABSTRACT:
TO EXTRACT THE SQUARE ROOT OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 83 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860624 9300 DOUBLE PRECISION DIVIDE SUBROUTINE-DPD
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION QUOTIENT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860625 9300 FLOATING POINT LOGARITHM - LGF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 60 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860626 9300 FLOATING-HYPERBOLIC SINE AND COSINE-SHF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING-POINT HYPERBOLIC SINE AND COSINE OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 80 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860627 9300 FLOATING POINT EXPONENTIAL - EXP
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE:69 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860628 9300 FLOATING POINT SINE (COSINE)-SNF (CSF)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS.
COMMENTS:
SIZE:74 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860629 9300 FLOATING POINT ARCTANGENT - ATF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATNG POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
COMMENTS:
SIZE:105 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860630 9300 FLOATING POINT, COMPLEX ARITH. PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FOLLOWING FLOATING POINT, COMPLEX ARITHMETIC OPERATIONS: LDFC: (CM) REPLACES (CA) STFC: (CA) REPLACES (CM) FLAC: (CA)+(CM) REPLACES (CA) FLSC: (CA)+(CM) REPLACES (CA) FLMC: (CA)+(CM) REPLACES (CA) FLDC: (CA)/(CM) REPLACES (CA) FLNC: (CA) REPLACES (CA) (CA DENOTES THE PSEUDO COMPLEX ACCUMULATOR WITH REAL PART IN CA, CA+1, IMAGINARY PART IN CA+2,CA+3, CM DENOTES COMPLEX OPERAND WITH REAL PART IN M, M+1 IMAGINARY PART IN M+2,M+3).
COMMENTS:
SIZE:129 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860631 9300 FLOATING POINT COMPLEX EXPONENTIAL-EXFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING COMPLEX ARGUMENT.
COMMENTS:
SIZE:15 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860632 9300 FLOATING POINT COMPLEX LOGARITHM - LNFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX, NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:21 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860633 9300 FLOATING POINT COMPLEX SQUARE ROOT-SQFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX SQUARE ROOT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:29 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860634 9300 FLOATING POINT COMPLEX ARCTANGENT - ATFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX ARCTANGENT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:46 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860635 9300 FLOATING COMPLEX SINE AND COSINE - SNFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX SINE AND COSINE OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:30 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860636 9300 LOGARITHM SUBROUTINE TO BASE E OR 10
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE LOGARITHM, TO BASE E OR 10, OF AN ARGUMENT IN THE A REGISTER.
COMMENTS:
SIZE: 64 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300

860637 9300 FL. PT. EXTENDED PRECISION SQUARE ROOT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SQUARE ROOT OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE:23 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860638 9300 EXTENDED PRECISION ARITHMETIC PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FOLLOWING FLOATING POINT AND FIXED POINT EXTENDED PRECISION ARITHMETIC OPERATIONS. FLOATING POINT LDFE: (EM) REPLACES (EA) STFE: (EA) REPLACES (EM) FLAE: (EA)+(EM) REPLACES (EA) FLSE: (EA)-(EM) REPLACES (EA) FLME: (EA)*(EM) REPLACES (EA) FLDE: (EA)>(EM) REPLACES (EA) FLNE: -(EA) REPLACES (EA) FIXED POINT TPM: (EA)*(EM) REPLACES (EA) TPA: (EA)+(EM) REPLACES (EA) (EA DENOTES THE PSEUDO EXTENDED ACCUMULATOR AND EM DENOTES THE EXTENDED OPERAND IN MEMORY).
COMMENTS:
SIZE: 481 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300

860639 9300 BINARY TO DECIMAL CONVERSION-BTDFL1
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 197 DECIMAL WORDS COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860640 9300 BINARY TO BCD CONVERTED BTDFX2,BTDFL2
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7 DIGIT EQUIVALENT STORED IN 3 CONSECUTIVE LOCATIONS
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE 222 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860641 9300 ONE CARD OCTAL MEMORY DUMP (PRINTER)
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 WITH LINE PRINTER.

860642 9300 FL. PT.EXTENDED PRECISION EXPONENTIAL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE: 121 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860643 9300 DECIMAL/BINARY CONVERSION ROUTINES
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7-DIGIT EQUIVALENT STORED IN 3 CONSECUTIVE LOCATIONS; TO CONVERT AN 11-DIGIT NUMBER IN SCIENTIFIC NOTATION TO ITS FLOATING BINARY EQUIVALENT.
COMMENTS:
SIZE:318 DECIMAL WORDS. COMPUTER CONFIGURATION:XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860644 9300 DECIMAL TO BINARY CONVERSION - DTBFX
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A SIGNED BCD NUMBER TO ITS FIXED POINT BINARY EQUIVALENT AT A GIVEN SCALING.
COMMENTS:
SIZE:80 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860645 9300 9300 DISPLAY CONVERSION (DISCV)-S SEE
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER INTO THE FOLLOWING ONE-WORD FORMAT, WITH SPEED OF CONVERSION THE PRIMARY CONSIDERATION:+OR-XXXXOR-EE
COMMENTS:
SIZE:323 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860646 9300 FL. PT. EXTENDED PRECISION NATURAL LOG
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENTED PRECISION NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE:147 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860647 9300 F. P. EXTENDED PRECISION SIN (COS)-SNFE
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SINE (COSINE) OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT IN RADIANS.
COMMENTS:
SIZE: 163 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860648 9300 PAPER TAPE AND TYPEWRITER SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE:345 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300 WITH A TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.

860650 9300 FL. PT. EXTENDED PRECISION ARCTAN - ATFE
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION ARCTANGENT OF THE RATIO OF TWO SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENTS.
COMMENTS:
SIZE:222 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860651 9300 REAL MATRIX ADDITION-RMADD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860652 9300 REAL MATRIX SUBTRACTION - RMSUB
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE:FORTRAN IV. SIZE:82 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

860653 9300 REAL MATRIX TRANSPOSE-RMTRA
AUTHOR: XEROX
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS,IN TRANSPOSED FROM,INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 69 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860654 9300 REAL MATRIX MULTIPLY-RMMUL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 108 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860655 9300 REAL MATRIX INVERSION-RMINV
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURNS WITH A DETERMINANT OF ZERO AND INDICATES THE RANK OF THE MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 673 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860656 9300 COMPLEX MATRIX ADDITION-CMADD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860657 9300 COMPLEX MATRIX INVERSION-CMINV
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF COMPLEX ELEMENTS. IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURN WITH A DETERMINANT OF COMPLEX ZERO AND INDICATES THE RANK OF THE MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 794 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860658 9300 COMPLEX MATRIX MULTIPLICATION-CMMUL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF COMPLEX ELEMENTS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 118 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860659 9300 COMPLEX MATRIX SUBTRACTION-CMSUB
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE BETWEEN TWO RECTANGULAR COMPLEX MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860660 9300 COMPLEX MATRIX TRANSPOSE-CMTRA
AUTHOR: XEROX
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF COMPLEX ELEMENTS,IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
COMMENTS:
SOURCE LANGUAGE:FORTRAN IV, SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860669 9300 SINE/COSINE SINRX,COSRX,SINDX,COSDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS (SINRX,COSRX) OR DEGREES (SINDX,COSDX)
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 84 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860670 9300 9300 EXPONENTIAL (E OR 10) EXPNX,EXPTX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E OR 10) OF A SPECIFIED ARGMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860671 9300 9300 ARCTANGENT ATNRX,ATNDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS OR DEGREES AND QUADRANTALLOCATE THE RESULT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 96 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860672 9300 FLOATING POINT EXPONENTIAL EXFN,EXFT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E OR 10) OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860673 9300 F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS R OR DEGREES D.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 88 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860674 9300 LOGARITHM (BASE E OR 10)-LGFN,LGFT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT LOGARITHM TO BASE E OR 10 OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860675 9300 FL. PT. ARCTANGENT-ATFR,ATFD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT (IN DEGREES OR ADIANS) OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 117 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860676 9300 ARCSINE,ARCCOSINE (DEGREES-RADIANS)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE (IN DEGREES (D) OR RADIANS) THE FLOATING POINT SIN-1 AND COS-1 OF A GIVEN ARGUMENT. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST OR SECOND QUADRANT FOR COS-1.
COMMENTS:
SIZE: 126 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860677 9300 ARCSINE,ARCCOSINE-ASNX,ACSX,ASNDC,ACSDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE (IN DEGREES (D) OR RADIANS) THE SIN-1 AND COS-1 OF A GIVEN ARGUMENT IN THE A REGISTER AT A BINARY POINT OF 1. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST AND SECOND QUADRANT FOR COS-1, VALUES IN RADIANS WILL BE AT A BINARY POINT OF 2, VALUES IN DEGREES WILL BE AT A BINARY POINT OF 8.
COMMENTS:
SIZE: 101 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860678 9300 TANGENT-TAN,TAND
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE TANGENT OF A FLOATING POINT NUMBER EXPRESSED IN DEGREES (TAND) OR RADIANS (TAN).
COMMENTS:
SIZE: 123 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860679 9300 INTERNAL SORT (SORTAC,SORTDC)
AUTHOR: XEROX
ABSTRACT:
TO SORT AN INTERNAL ARRAY IN EITHER ASCENDING OR DESCENDING ORDER. THE ARRAY MAY BE OF ANY NUMBER OF UNIFORMLY LONG ITEMS WHICH MAY BE ONE OR MORE WORDS, BOTH THE KEY BITS AND THEIR ORDER OF PRECEDENCE MAY BE SPECIFIED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 485 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860680 9300 TANGENT-TANX,TANDX(DEGREES OR RADIANS)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE TANGENT OF A FIXED POINT NUMBER EXPRESSED IN DEGREES (TANDX) OR RADIANS (TANX).
COMMENTS:
SIZE: 112 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860681 9300 HYBRID RUNGE-KUTTA GILL INTEGRATION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE(S) MAY BE CHANGED AFTER ANY COMPLETE STOP. ONE LEVEL OF RECURSIVENESS IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 111 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860682 9300 LINEAR INTERPOLATION (3 ARGUMENTS)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS,X,Y,AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,Z,F(X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 131 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860683 9300 LINEAR INTERPOLATION (2 ARGUMENTS)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS,X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 74 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860684 9300 LINEAR INTERPOLATION (1 ARGUMENT)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHT-LINE INTERPOLATION IN A TABLE OF X,F(X) PAIRS, WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860685 9300 HYBRID ADAMS-MOULTON DIFF. EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 154 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860686 9300 HYBRID RECTANGULAR INTEGRATION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 32 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860687 9300 HYBRID 2-POINT PREDICTOR
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860688 9300 HYBRID 4-POINT PREDICTOR

AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 78 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860689 9300 HYBRID 4-POINT CORRECTOR

AUTHOR: XEROX
ABSTRACT:
TO CALCULATE AN IMPROVED ESTIMATE OF THE SOLUTION OF A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 78 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860690 9300 ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI

AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STEP.
COMMENTS:
SIZE: 224 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

860692 9300 9300 STAND-ALONE SYSTEM-MAKE ROUTINE

AUTHOR: XEROX
ABSTRACT:
SYSTEM MAKE IS A FREE-STANDING, CONTROL CARD ORIENTED ROUTINE FOR MAKING AND CHANGING 9300 MONITOR SYSTEM TAPES.
COMMENTS:
SIZE: 5340 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER, BUFFERED PRINTER,CARD READER TWO MAG. TAPES (A CHANNEL),INTERLACE, AND 16K MEMORY.
READER TWO MAG. TAPES (A CHANNEL),INTERLACE, AND 16K MEMORY.

860694 9300 MAG TAPE COPY AND VERIFY PROGRAM

AUTHOR: XEROX
ABSTRACT:
TO COPY AND VERIFY MIXED MODE (BINARY AND BCD) MAG TAPES ON A FILE BASIS, UTILIZING THE 9300 MONITOR I/O HANDLERS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 764 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER,CARD READER AND TWO MAG TAPE UNITS.

860697 9300 POLYNOMIAL TELESCOPER

AUTHOR: XEROX
ABSTRACT:
TO REDUCE BY STEPS THE DEGREE OF A GIVEN POLYNOMIAL, CALCULATING NEW COEFFICIENTS AT EACH STEP, UNTIL THE ACCUMULATED ERROR GENERATED EXCEEDS A GIVEN LIMIT.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 1232 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860698 9300 KWIC INDEX PROGRAM FOR SIGMA

AUTHOR: XEROX
ABSTRACT:
GIVEN A SET OF SIGMA PROGRAM LIBRARY CARDS AS INPUT, TO PRODUCE A KWIC (KEY WORD IN CONTEXT) INDEX, ALPHABETICALLY SORTED, KEYING ON ALL WORDS IN THE TITLE THAT HAVE NOT BEEN SPECIFIED AS ,DULL, WORDS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 25000 DECIMAL WORDS. COMPUTER CONFIGURATION: 32K, 9300 WITH AT LEAST 4 MAG TAPES.

860700 9300 FORTRAN IV ERROR CHECKING DEMO

AUTHOR: XEROX
ABSTRACT:
TO ILLUSTRATE COMPILE-TIME ERROR CHECKING CAPABILITY OF 9300 FORTRAN IV.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. COMPUTER CONFIGURATION:ANY 9300

860716 9300 BINARY INPUT--PAPER TAPE LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY PAPER TAPE.
COMMENTS:
SIZE: 40 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE READER.

860720 9300 BASIC 2 CARD RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM CARDS WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT. EXTERNA REFERENCES AND DEFINITIONS ARE NOT ALLOWED AND ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
COMMENTS:
SIZE: 79 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.

860721 9300 BINARY INPUT-1 CARD ABS. LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY CARDS.
COMMENTS:
SIZE: 37 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.

860722 9300 ONE CARD OCTAL MEMORY DUMP (TYPEWRITER)
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY.
COMMENTS:
SIZE: 65 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300

860723 9300 OCTAL INPUT-1 CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860726 9300 CARD READ SUBROUTINE - CDR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
COMMENTS:
SOURCE LANUGAGE:META-SYMBOL. SIZE:151 DECIMAL WORDS. COMPUTER CONFIGURATION;ANY XDS 9300 WITHA A CARD READER ATTACHED TO AN INTERLACED CHANNEL.

860731 9300 I/O HANDLER CDRP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING OR PUNCHING CARDS IN EITHER BCD OR BINARY MODE.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE:277 OCTAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300 WITH A CARD READER/OR PUNCH.

860732 9300 MAGNETIC TAPE HANDLER (MTAPE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.

860733 9300 CARD OR MAG. TAPE UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR MAGNETIC TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 1071 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR MAGNETIC TAPE.

860734 9300 MAG TAPE TRANSFORMATION (TRANSFORM)
AUTHOR: XEROX
ABSTRACT:
TO TRANSFORM A FILE OF BLOCKED RECORDS WHOSE LOGICAL RECORD LENGTH (IN CHARACTERS) IS A NON-MULTIPLE OF FOUR (4) TO A NEW FILE WHOSE LOGICAL RECORD LENGTH IN CHARACTERS IS A MULTIPLE OF FOUR. THE OUTPUT RECORD LENGTH IS SPECIFIED BY THE USER. THE ORIGINAL BLOCKING FACTOR IS RETAINED IN THE OUTPUT FILE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL(META 893H). SIZE:3243 DEC. WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 MINIMUM 16K,3 MAG TAPES.

860737 9300 BINARY MAG TAPE EDITOR
AUTHOR: XEROX
ABSTRACT:
TO COPY AND EDIT A BINARY MAG TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:687 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TWO MAG TAPES

860740 9300 SORT/MERGE (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE CATALOG NUMBERS 860741 AND 860742 FOR ABSTRACTS OF SORT AND MERGE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 4096-8192 DECIMAL WORDS COMPUTER CONFIGURATION:ANY XDS 9300 COMPUTER WITH A MINIMUM OF 16K FOR FULL CAPACITY VERSION OF SORT WHICH PERMITS FIRST AND/OR LAST PASS OWN-CODE SUBPROGRAMS,OR 8K FOR THE LIMITEDCAPACITY VERSION.THREE TAPE UNITS,ONE CARD READER AND ONE TYPEWRITER.

860741 9300 SORT
AUTHOR: XEROX
ABSTRACT:
PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR USERS OF XDS 900 SERIES OR 9300 COMPUTER SYSTEMS HAVING AT LEAST THREE MAG TAPE UNITS OR TWO MAGPAK UNITS.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 860740. SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.

860742 9300 MERGE
AUTHOR: XEROX
ABSTRACT:
MERGE, BASICALLY IS AN ABRIDGEMENT OF SORT, ALLOWS PREVIOUSLY SEQUENCED RECORDS FROM AS MANAY AS SIX REELS OF MAGNETIC TAPE TO BE MERGED INTO ONE STRING.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860740, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

860743 9300 PAYROLL GENERATOR PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED IN AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.
COMMENTS:
SOURCE LANGUAGE:XDS BUSINESS LANGUAGE. SIZE: 6500 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 16K OF STORAGE AND THREE MAGNETIC TAPE UNITS.

860749 9300 MODEL 9372 UNBUFFERED LINE PRINTER SUBR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 426 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

860750 9300 MONARCH SYS. UPDATE FOR UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
TO RELEASE AN UPDATE PACKAGE WHICH WILL ADAPT A STANDARD MO3 9300 MONARCH SYSTEM TAPE TO THE UNBUFFERED PRINTER. N/A

860751 9300 SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT ON THE PRINTER ONE LINE OF THE SYMBOL OUTPUT LISTING.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE: 130 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.

860752 9300 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 185 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A BUFFERED LINE PRINT ER ATTACHED TO AN INTERLACED CHANNEL.

860772 9300 CFE-1 AND MAG TAPE COMPATABILITY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE THE CAPABILITY OF THE CFE-1 TO OPERATE INDEPENDENTLY FROM THE CENTRAL PROCESSING UNIT (XDS 9300) IN ALL OPERATING AND STORAGE MODES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 238 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH CFE-1 AND MAG TAPE.

860774 9300 PATCH
AUTHOR: XEROX
ABSTRACT:
THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 2550 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

860779 9300 DES-1 8K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860780 9300 DES-1 16K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860781 9300 DES-1 24K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860782 9300 DES-1 32K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860784 9300 RTM STAND-ALONE UPDATE
AUTHOR:XEROX
ABSTRACT:
THIS ROUTINE IS USED TO UPDATE 9300 RTM SYSGEN TAPES.
COMMENTS:
SOURCE:METASYMBOL, CONFIGURATION: 9300 WITH 8K MEMORY (MINIMUM).

860791 9300 DES-1 SYSGEN FOR NAA SYSTEM
AUTHOR:R.E. VOSSLER
ABSTRACT:
THIS PROGRAM GENERATES THE DES-1 SYSTEM FILE ON THE RAD FOR THE NORTH AMERICAN AVIATION HYBRID SYSTEM. THE DES-1 SYSTEM CONSISTS OF BINARY CARD DECKS WHICH ARE READ INTO MEMORY AND THEN DUMPED ONTO THE RAD.
COMMENTS:
THIS PROGRAM REQUIRES THE FOLLOWING CONFIGURATION: 24K 9300 XDS COMPUTER 1/2 MILLION CHARACTER RAD CARD READER THE DES-1 ALSO REQUIRES THE FOLLOWING: MAG TAPE LINE PRINTER TELETYPE DES-1 CONSOLE

860796 9300 NASA EDWARDS HYBRID EXECUTION LIBRARY

AUTHOR: XEROX
ABSTRACT:
THE NASA EDWARDS HYBRID EXECUTIVE LIBRARY CONSISTS OF A NUMBER OF FORTRAN IV REENTRANT SUBROUTINES WHICH PROVIDE USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE EXECUTIVE LIBRARY SUBROUTINES MAY BE CALLED BY FORTRAN IV PROGRAMS OR VIA COMMANDS INPUT THROUGH THE TYPEWRITER WHICH ARE EXERCISED BY THE MANUAL EXECUTIVE PROGRAM. THE HYBRID EXECUTIVE LIBRARY CONSISTS OF ALL HYBRID HARDWARE INTERFACE ROUTINES, THE SOFTWARE INTERFACE TO THE MONITOR AND THE INTERRUPTS, INTERVAL TIMER CONTROL, ANALOG-DIGITAL CONVERTERS, SENSE LINES, LOGIC LEVEL OUTPUT LINES, ANALOG MODE CONTROL, ANALOG POTENTIOMETER SETTING, ANALOG VALUE SCANNING, AND ADIOS CONTROL. A FULL SET OF OPERATOR AND HARDWARE ERROR DIAGNOSTICS ARE PROVIDED AT RUN TIME.

860798 9300 NORTH AMERICAN AVIATION HYBRID EXECUTIVE

AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE FORTRAN USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE ROUTINES MAY BE CALLED FROM A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMAND. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH SPECIAL HYBRID INTERFACE FOR NAA.

860799 9300 NAA DES-1 HYBRID CALL LIBRARY

AUTHOR: XEROX
ABSTRACT:
THE DES-1 HYBRID CALL LIBRARY CONSISTS OF A NUMBER OF SUBROUTIN ES WHICH PROVIDE THE DES-1 USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE ROUTINES MAY BE CALLED FROM A DES-1 PROGRAM. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH DES-1 AND SPECIAL HYBRID INTERFACE HARDWARE FOR NAA.

860803 9300 SYMBOL BOOTSTRAP

AUTHOR: XEROX
ABSTRACT:
LOAD SYMBOL LOADER FROM SYSTEM TAPE.

861000 9300 REAL-TIME MONITOR

AUTHOR:XEROX
ABSTRACT:
THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATIONS IN A REENTRANT, ONLINE REAL-TIME MODE.

861078 9300 USNPGS HYBRID EXECUTIVE LIBRARY

AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE LIBRARY CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE USER CONTROL OF HYBRID SYSTEM HARDWARE. THE EXECUTIVE FUNCTIONS MAY BE CALLED BY A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMANDS. INCLUDED IN THE LIBRARY ARE FACILITIES FOR INTERRUPT CONTROL, LOGIC LINES OUTPUT, SENSE LINE TESTING, ANALOG POT SETTING, ANALOG VALUE SCANNING, ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTER CONTROL, AND HYBRID SYSTEM MODE CONTROL.
COMMENTS:
THE HYBRID EXECUTIVE LIBRARY IS DESIGNED TO OPERATE UNDER THE XDS 9300 REAL-TIME MONITOR SYSTEM. THE SUBROUTINES IN THE HYBRID EXECUTIVE LIBRARY ARE REENTRANT AND CODED IN XDS 9300 META-SYMBOL. THE USNPGS HYBRID SYSTEM INCLUDES AN XDS 9300 COMPUTER INTERFACED WITH A C15000 ANALOG COMPUTER

861079 9300 USNPGS DISPLAY EXECUTIVE LIBRARY

AUTHOR: XEROX
ABSTRACT:
THE USNPGS DISPLAY EXECUTIVE LIBRARY CONSISTS OF A SET OF SUBROUTINES AND INTERRUPT PROCESSORS WHICH PROVIDE USER CONTROL OF ALL DISPLAY FUNCTIONS.
COMMENTS:
THE DISPLAY EXECUTIVE LIBRARY, CODED IN META-SYMBOL, IS CALLABLE FROM META-SYMBOL AS WELL AS FORTRAN IV. THE DISPLAY EXECUTIVE OPERATES UNDER THE 9300 RTM SYSTEM AND REQUIRES THE REAL-TIME FORTRAN IV LIBRARY. FUNCTIONS PROVIDED BY THE DISPLAY EXECUTIVE INCLUDE: INITIATION OF OUTPUT SEQUENCE. CHARACTER AND VECTOR GENERATION. EDITING FUNCTIONS. DISPLAY BUFFER MANAGEMENT. CHARACTER AND VECTOR RASTER GENERATION. PROGRAM AS WELL AS OPERATOR CONTROL OF DISPLAY FUNCTIONS. A VARIETY OF INPUT SOURCES FOR DISPLAY DATA. THE ABILITY TO PERFORM THESE FUNCTIONS ON EITHER OF TWO DISPLAY

861082 9300 RAD TO MAGNETIC TAPE DUMP

AUTHOR: XEROX
ABSTRACT:
RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2 MILLION, 1 MILLION, OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

861083 9300 SYMBOL ASSEMBLER (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE SYMBOL ASSEMBLER UNDER 9300 MONARCH SYSTEM, CAT. NO. 860530. ROUTINES UNDER THIS COVER INCLUDE: 860547-SYMBOL LOADER, 860548-SYMBOL PSI, 860549-SYMBOL CSI, 860550-SYMBOL MSI, 860551-SYMBOL PBO, 860552-SYMBOL CBO, 860553-SYMBOL MBO, 860554-SYMBOL TLO, 860555-SYMBOL LLO, 860556-SYMBOL MLO, 860557-SYMBOL S1, 860558-SYMBOL S2, 860559-SYMBOL S3, 860560-SYMBOL M910, 860561-SYMBOL M920, 860562-SYMBOL M9300.

861084 9300 USNPOS DISPLAY SUBSYSTEM
AUTHOR: XEROX
ABSTRACT:
THESE PROGRAMS ALLOW OPERATION OF TWO AGT/10 GRAPHIC DISPLAY SUBSYSTEMS IN CONJUNCTION WITH AN XDS 9300. THEY ALLOW THE AGT/10S TO READ TAPES FROM THE 9300 TAPE DRIVES. THEY ALSO ALLOW THE USER TO OUTPUT CONTROL INFORMATION AND TO INPUT AND OUTPUT TEXTAND GRAPHIC BLOCKS TO THE AGT/10S.
COMMENTS:
HARDWARE REQUIRMENTS: AN XDS 9300-ADAGE AGT110 COMPUTER SYSTEM. TWO TAPE DRIVES AND VERSION B01 OF THE 9300 REAL-TIME MONITOR ARE REQUIRED

861085 9300 FORTRAN IV LIBRARY 9RDDISC,9WRDISC
AUTHOR: XEROX
ABSTRACT:
THESE ROUTINES IMPLEMENT THE READ DISK, WRITE DISK STATEMENTS OF FORTRAN IV FOR THE REAL TIME MONITOR. (SEE FORTRAN IV REF MANUAL PAGE 69).
COMMENTS:
A BINARY UPDATE PACKAGE (CAT. NO. 861000-64C01) IS AVAILABLE TO UPDATE THE REAL-TIME MONITOR SYSGEN TAPE (CAT. NO. 861000-85C00). IT CONTAINS, IN ADDITION TO 9RDDISC. VERSIONS OF R'RECUR, 9WRDATA, 9GETBUFF, AND M'DOIO THAT HAVE BEEN UPDATED TO ACCOMODATE 9RDDISC.
NOTE ALSO THAT THE SPELLING OF THE WORD DISK IN THE FORTRAN REF. MANUAL (901107) IS NOT CORRECT. THE CORRECT SPELLING IS D I S K , FOR EXAMPLE, READ DISK.

870009 940 940 TIME-SHARING SYSTEM DISC DUMP
AUTHOR: XEROX
ABSTRACT:
THE DUMP HAS ALL THE CURRENT MONITOR,EXECUTIVE,UTILITIES PROGRAMS, AND SUBSYSTEMS FILES IN BINARY AND SYMBOLIC. ALSO THERE ARE DESCRIPTIVE FILES ON : 1. MODIFYING 2. PERIPHERALS 3. SYSTEM MAKE 4. NEW FEATURES 5. DISC FILES 6. RELEASE
COMMENTS:
AVAILABLE ON TWO TAPE REELS. NOTE: AN ADDITIONAL MINI-REEL IS REQUIRED FOR THE DISC DUMP/LOAD-2.0 AND DISC SWAP-2.0

870010 940 940 WRITE SUBSYSTEMS ON RAD (WSD)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TRANSFERS THE SUBSYSTEMS FROM DISC FILES TO THE RAD.
COMMENTS:
INCLUDED WITH THE SYMBOLIC FILE IS A DETAILED DESCRIPTION FOR GENERATING THIS PROGRAM.

870011 940 940 OPERATOR'S EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE OPERATOR'S EXECUTIVE IS COMPOSED OF TWO PARTS: (1) A CONSTANTS AND PART ONE,(2)COMMANDS AND PART TWO THIS PROGRAM IS USED TO VALIDATE ACCOUNTS, PASSWORDS, USER NUMBERS, LEGAL LOG-IN TIMES, BROADCAST LETTERS, COPY ACCOUNTING DATA TO A FILE, AND COMMANDS THAT ONLY THE OPERATOR CAN ACCESS. THE COMMAND 'HELP' WILL LIST THE ENTIRE AVAILABLE COMMANDS.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC AND BINARY FILES NECESSAR Y FOR THE GENERATION OF OPERATOR'S EXECUTIVE. INCLUDED IS A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE. NOTE: THIS PROGRAM IS REQUIRED AS PART OF THE OPERATING SYSTEM. CHANGES IN OPERATION OF THE MONITOR AND EXECUTIVE CAN CAUSE THIS PROGRAM TO FAIL.

870012 940 940 MAP DISC
AUTHOR: XEROX
ABSTRACT:
MAP DISC IS RESPONSIBLE FOR CLEARING THE RESIDENT BIT MAP FOR ALL DATA BLOCKS WHICH EXIST ON THE DISC AND ARE IN THE MAPPED AREA. THIS AREA IS ONLY ONE FOURTH OF THE DISC. THE PROGRAM READS FILE INDEX BLOCKS AND CHECKS FOR POINTERS INTO THE MAPPED AREA. IF ONE IS FOUND, THE PROGRAM WILL REQUEST THE MONITOR TO CLEAR ONE BIT IN THE BIT MAP. CONFLICTS ARE PRINTED AND THE FINAL PHASE WILL DELETE A FILE INDEX BLOCK.
COMMENTS:
A DETAILED GENERATION PROCEDURE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES. THERE ARE THREE SYMBOLIC FILES AND FIVE BINARY FILES IN THIS PACKAGE

870013 940 DISC SHAP
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL COPY THE MONITOR INTO MEMORY. USE OF BREAKPOINTS 2-4 DETERMINE WHAT DISC WILL BE USED TO COPY FROM. BREAKPOINT 1 IS NOW USED TO SELECT EITHER 64K OR 48K AS THE MEMORY SIZE.
COMMENTS:
A UTILITY TAPE IS THE COPY WHICH WILL BE SENT ON REQUEST. NOTE: DISC DUMP/LOAD IS INCLUDED AS PART OF THE UTILITY TAPE.

870014 940 940 DISC DUMP/LOAD
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL EITHER COPY DATA FROM THE DISC TO MAGNETIC TAPE OR COPY DATA FROM MAGNETIC TAPE TO DISC. THIS PROGRAM IS DELIVERED ON A UTILITY TAPE REEL IN A STANDARD FILL FORM. NOTE: ALSO INCLUDED IS DSHAP (DISC DUMP/LOAD)
COMMENTS:
A DETAILED GENERATION DESCRIPTION FILE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES.

870016 940 940 TIME-SHARING SYSTEM EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE EXECUTIVE IS THE INTERFACE BETWEEN THE 940 TIME-SHARING SYSTEM MONITOR AND THE 940 TERMINAL USER. THE EXECUTIVE IS RESPONSIBLE FOR USER IDENTIFICATION, MAINTENANCE OF USER FILE DIRECTORIES, SUPERVISION OF THE USE OF THE SYSTEM VIA LIMITING ACCESS TO COMMANDS WHICH REQUIRE SPECIAL STATUS. THE EXECUTIVE CONSISTS OF SIX PACKAGES WHICH, WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE EXECUTIVE FUNCTIONS OF THE 940 TIME-SHARING SYSTEM
COMMENTS:
THE EXECUTIVE AND THE MONITOR OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.

870017 940 940 TIME SHARING SYSTEM MONITOR
AUTHOR: XEROX
ABSTRACT:
THE MONITOR IS THE SUPERVISOR OF THE USE OF ALL SYSTEM RESOURCES. IT IS RESPONSIBLE FOR SCHEDULING THE USE OF THE CPU, MEMORY MANAGEMENT, I/O DEVICE MANAGEMENT, ALL INTERRUPT PROCESSING, TELETYPE I/O SUPERVISION AND A VARIETY OF USER SERVICES. THE MONITOR CONSISTS OF FOURTEEN PACKAGES WHICH WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE MONITOR FUNCTIONS OF THE 940 TIME-SHARING SYSTEM.
COMMENTS:
THE MONITOR AND EXECUTIVE OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.

870018 940 940 TAP
AUTHOR: XEROX
ABSTRACT:
940 TAP IS A TWO PASS TEXT-ORIENTED MACRO ASSEMBLER FEATURING A WIDE RANGE OF CONDITIONAL AND ITERATIVE CAPABILITIES, TOGETHER WITH EXTERNAL LABEL AND OPERATION DEFINITIONS. PARAMETRIC PROGRAMMING CAPACITY IS FURTHER ENHANCED BY NO RESTRICTIONS BEING PLACED UPON THE RECURSIVE INVOCATION AND DEFINITION OF MACROS. TWO FORMS OF OBJECT CODE ARE AVAILABLE: (1) FULLY RELOCATABLE, COMPLETE WITH SYMBOL TABLE FOR INPUT TO DDT; (2) ABSOLUTE SELF-FILLING BINARY.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 TAP, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /TAP-N.0/.

870019 940 940 QED
AUTHOR: XEROX
ABSTRACT:
940 QED IS A SOPHISTICATED TEXT EDITOR WHICH ALLOWS ANY SYMBOLIC FILE IN THE 940 SYSTEM TO BE QUICKLY EDITED.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 QED, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /QED-N.0/.

870020 940 940 FORTRAN II COMPILER
AUTHOR: XEROX
ABSTRACT:
940 FORTRAN II IS COMPOSED OF THREE PARTS:(1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN AN EXTENDED FORTRAN II SYNTAX INCORPORATING MANY FORTRAN IV FEATURES, SUCH AS N-DIMENSIONAL ARRAYS, GENERALIZED SUBSCRIPT FORMATION, AND MIXED-MODE EXPRESSIONS; (2) A RUN-TIME SYSTEM, CONSISTING OF RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID; (3) A LIBRARY WHOSE ENTRIES ARE CONDITIONALLY LOADED DEPENDING ON THE NEEDS OF THE USER PROGRAM. THE PROCESSOR RUNS ONLY UNDER TSS-2.0 MONITOR.
COMMENTS:
THE GENERATION PROCEDURE IS GIVEN IN THE SYMBOLIC FILE /FII-N.0/.

870021 940 940 DDT
AUTHOR: XEROX
ABSTRACT:
940 DDT IS A HIGHLY INTERACTIVE DEBUGGING TOOL, COUPLED WITH A SOPHISTICATED LOADER, HAVING THE FOLLOWING FEATURES: (1) BREAKPOINTING WHICH ALLOWS THE USER TO INSPECT THE CONDITION OF HIS PROGRAM AT STRATEGIC POINTS AND INTERVALS; (2) BLOCK STRUCTURE MANIPULATION OF SETS OF SYMBOLS BELONGING TO LOGICALLY SEPARATE PROGRAMS; (3) LIMITED ASSEMBLY AND, OPTIONALLY, IMMEDIATE EXECUTION OF INDIVIDUAL INSTRUCTIONS; (4) ASSEMBLY, INSERTION, AND DELETION OF INSTRUCTIONS OR DATA; (5) A VARIETY OF SERVICE FUNCTIONS SUCH AS WORD SEARCHES, RELABELING ALTERATION, CONDITIONAL SAVE AND LOAD OF SYMBOL TABLES, ETC.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 DDT, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /DDT-N.0/.

870022 940 940 CONVERSATIONAL FORTRAN
AUTHOR: XEROX
ABSTRACT:
940 CONVERSATIONAL FORTRAN IS COMPOSED OF THREE PARTS: (1) AN INCREMENTAL COMPILER, WHICH ALLOWS THE STATEMENT-BY-STATEMENT PREPARATION OF PROGRAMS WRITTEN IN A LANGUAGE CLOSELY RESEMBLING FORTRAN IV; (2) A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER; (3) A COMMAND PROCESSOR, WHICH PERMITS INTERACTIVE CONTROL OF THE COMPILER AND RUN-TIME SYSTEM, PROVIDING EDIT, DEBUG, AND DIRECT STATEMENT EXECUTION FACILITIES.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CONVERSATIONAL FORTRAN, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /FOR-N.0/.

870023 940 940 CAL
AUTHOR: XEROX
ABSTRACT:
XDS CAL IS COMPOSED OF TWO PARTS: (1) AN INCREMENTAL COMPILER AND EDITOR, WHICH ALLOWS THE STATEMENT BY STATEMENT PREPARATION OF PROGRAMS WRITTEN IN AN ALGEBRAIC LANGUAGE CLOSELY RESEMBLING JOSS; (2) A RUN-TIME SYSTEM, WHICH INTEPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CAL, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /CAL-N.0/.

870024 940 940 BASIC
AUTHOR: XEROX
ABSTRACT:
940 BASIC IS COMPOSED OF TWO PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN A SIMPLE ALGEBRAIC LANGUAGE ON A STATEMENT-BY-STATEMENT BASIS; (2) A RUN-TIME SYSTEM, WHICH CONTROLS EXECUTION OF THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 BASIC, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /BAS-N.0/.

870025 940 940 TSS MONITOR,EXEC, AND PROCESSORS (CO
AUTHOR: XEROX
ABSTRACT:
THIS IS A COVER NUMBER FOR ALL THE XDS 940 PROCESSORS, INCLUDING THE MONITOR AND EXECUTIVE. IT INCLUDES THE FOLLOWING PROCESSORS AND UTILITIES: QED-870019, DDT-870021, TAP-870018, BASIC-870024, CAL-870023, FORTRAN II-870020, LIB-870027, FORTRAN II R/T-870028, CONVERS. FORTRAN-870022, WRITE SUBSYSTEMS-RAD-870010, OPERATORS EXECUTIVE-870011, MAP DISC-870012, EXECUTIVE-870016, MONITOR-870017.

870026 940 940 TSS USERS UTILITY PROGRAMS
AUTHOR:L. D. MCDANIEL - XDS
ABSTRACT:
SIXTY-ONE ROUTINES IN THE 940 FILES FORMAT. FILES ARE RETRIEVED USING MAGTAPE HANDLER. THE FOURTH FILE IS THE INDEX TO UTILITY PROGRAMS.
COMMENTS:
THE PROGRAMS ARE USED TO SOLVE RELATED PROBLEMS IN BUSINESS, SCIENCE, AND MATH. ADDITIONAL PROGRAMS DEMONSTRATE 940 SUB-SYSTEMS.

870027 940 FORTRAN II LIBRARY FOR THE XDS 940
AUTHOR: XEROX
ABSTRACT:
THIS IS A PART OF SDS940 FORTRAN II SYSTEM. IT CONSISTS OF LIBRARY ROUTINES WHICH ARE CONDITIONALLY LOADED DEPENDING UPON THE NEEDS OF THE USER PROGRAMS.

870028 940 FORTRAN II RUNTIME SYSTEM
AUTHOR: XEROX
ABSTRACT:
THIS IS A PART OF FORTRAN II 940 SYSTEM. IT CONSISTS OF RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID.

890158 9-SERIES ARCSIN AND ARCCOS FUNCTIONS
AUTHOR:SAM H. HARLIN - XDS
ABSTRACT:
THIS FORTRAN II SUBROUTINE COMPUTES THE ARC SINE AND ARC COSINE OF A VALUE AND RETURNS THE ANGLE IN RADIANS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 890180. PROGRAM REQUIRES 234 DECIMAL MEMORY LOCATIONS. REQUIRES THE XDS FORTRAN II SYSTEM.

890159 9-SERIES FACTORIAL ROUTINE
AUTHOR:SAM H.HARLIN
ABSTRACT:
THIS FORTRAN II SUBROUTINE CALCULATES THE FACTORIAL OF A FIXED POINT VALUE.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00800002. PROGRAM REQUIRES 39 DECIMAL MEMORY LOCATIONS AND THE FORTRAN II SYSTEM.

890160 9-SERIES HYPERBOLIC SINE, COSINE AND TANGENT
AUTHOR:SAM H. HARLIN - XDS
ABSTRACT:
FORTRAN II ROUTINE TO CALCULATE HYPERBOLIC SINE, COSINE AND TANGENT.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00820001. PROGRAM REQUIRES 38 DECIMAL LOCATIONS FOR HSIN AND HCOS AND 40 DECIMAL LOCATIONS FOR HTAN. TOTAL OF 116 DECIMAL LOCATIONS AND FORTRAN II SYSTEM REQUIRED.

890161 9-SERIES POLYNOMIAL ADDITION OR SUBTRACTION
AUTHOR:D. C. BAXTER
ABSTRACT:
ADDS OR SUBTRACTS TWO POLYNOMIALS. ONE POLYNOMIAL MAY BE MULTIPLIED BY A SCALAR DURING THE PROCESS.

890162 9-SERIES POLYNOMIAL PRODUCT
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO FORM THE PRODUCT OF TWO POLYNOMIALS WHOSE COEFFICIENTS ARE AVAILABLE AS LINEAR ARRAYS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00002. PROGRAM REQUIRES 100 DECIMAL LOCATIONS OF STORAGE. RUNS UNDER THE FORTRAN II SYSTEM.

890163 9-SERIES POLYNOMIAL DIVISION, POLYDIV
AUTHOR: BAXTER
ABSTRACT:
CALCULATES THE QUOTIENT AND REMAINDER FORMED ON DIVIDING TWO POLYNOMIALS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00C00003.

890164 9-SERIES LINEAR POLYNOMIAL SUBSTITUTION, POLYSUBS
AUTHOR:D. C. BAXTER
ABSTRACT:
COMPUTES THE RATIONAL POLYNOMIAL IN Z WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A POLYNOMIAL F(S).

890165 9-SERIES RATIONAL POLYNOMIAL SUBSTITUTION
AUTHOR:D. C. BAXTER
ABSTRACT:
COMPUTES THE RATIONAL POLYNOMIAL IN Z, XN(Z)/XD(Z), WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A RATIONAL POLYNOMIAL FUNCTION OF S, P(S)/Q(S).

890166 9-SERIES SERIES EXPANSION OF RATIONAL POLYNOMIAL
AUTHOR:R. GAGNE, D. C. BAXTER
ABSTRACT:
EXPANDS A RATIONAL POLYNOMIAL INTO A TAYLOR SERIES.

890167 9-SERIES CLIMB1 A HILL-CLIMBING SUBROUTINE
AUTHOR:C. M. WOODSIDE
ABSTRACT:
A FORTRAN II SUBROUTINE SUBPROGRAM TO FIND THE SET OF ARGUMENTS WHICH MAXIMIZES OR MINIMIZES A FUNCTION, SUBJECT TO CONSTRAINTS ON THE ARGUMENTS OR ON OTHER FUNCTIONS OF THEM.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00007. PROGRAM REQUIRES 2134 DECIMAL LOCATIONS OF MEMORY AND THE FORTRAN II SYSTEM.

890168 9-SERIES PATTERN OPTIMIZER
AUTHOR:PAUL G. FRIEDMAN
ABSTRACT:
A FORTRAN II PROGRAM TO MINIMIZE A FUNCTION OF UP TO 5 VARIABLES.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00008. PROGRAM REQUIRES 276 WORDS OF MEMORY. REQUIRES A SUBROUTINE LABELED EVAL,CODING INDICATED IN THE WRITE-UP.

890169 9-SERIES BAIRSTOW ROOTFINDER
AUTHOR:D. C. BAXTER
ABSTRACT:
A FORTRAN II SUBROUTINE SUBPROGRAM TO CALCULATE THE REAL OR COMPLEX ROOTS OF A POLYNOMIAL EQUATION.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20001 PROGRAM REQUIRES 748 DECIMAL MEMORY LOCATIONS AND SUBROUTINE SQRT.

890170 9-SERIES ROOTS OF POLYNOMIALS
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
TO ALLOW INPUT OF THE COEFFICIENTS OF A POLYNOMIAL FROM PAPER TAPE OR TYPEWRITER, AND TO COMPUTE AND TYPE OUT ITS REAL OR COMPLEX ROOTS. THE EFFECT OF AN ACCURACY PARAMETER EPS AND OF A CONVERGENCE LIMIT CAN ALSO BE TESTED.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20002 REQUIRES BAIRSTOW ROOTFINDER PROGRAM (PREV. NO. 00C20001) AND A TOTAL OF 3171 (DEC) MEMORY LOCATIONS

890171 9-SERIES ROOTBIS, ROOTFINDING BY BISECTION
AUTHOR:MISS F. T. STOCK - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO EVALUATE ONE REAL ROOT OF A FUNCTION IN THE VICINITY OF AN INITIAL GUESS. THIS METHOD SHOULD BE USED ONLY WHERE OTHER METHODS FAIL AS IT IS NOT TIME EFFICIENT.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20003 REQUIRES SUBROUTINES (FUNCTION) F(X) AND ABS. 188 (DEC) MEMORY LOCATIONS.

890172 9-SERIES LEGENDRE POLYNOMIAL
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM EVALUATES THE LEGENDRE POLYNOMIAL PN(X)=(1/2NN!)DN/DXN(X2-1)N BY THE RECURSION FORMULA PN+1=PNX+(N/(N+1))(XPN-PN-1).

890173 9-SERIES GAMMA FUNCTION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
EVALUATION OF THE FUNCTION (I+F) WHERE I IS THE INTEGRAL PORTION OF A NUMBER AND F IS THE FRACTIONAL PORTION, OR ALTERNATIVELY TO COMPUTE THE FACTORIAL OF AN INTEGER.

890174 9-SERIES BESSEL FUNCTION J0, J1 Y0, Y1
AUTHOR:MISS F. T. STOCK
ABSTRACT:
EVALUATION OF BESSEL FUNCTIONS OF THE FIRST AND SECOND KIND OF ORDER ZERO AND ONE.

890175 9-SERIES REAL EXPONENTIAL INTEGRAL
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM COMPUTES THE REAL EXPONENTIAL INTEGRAL -EI(-X)=/X -U/U) DU FOR ANY REAL ARGUMENT GREATER THAN ZERO BY EVALUATING AN APPROXIMATING POLYNOMIAL.

890176 9-SERIES BESSEL FUNCTION KN(X),
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM EVALUATES THE MODIFIED BESSEL FUNCTION OF THE SECOND KIND FOR INTEGRAL AND HALF-INTEGRAL ORDER.

890177 9-SERIES BESSEL FUNCTION-FIRST KIND, ORDER ZERO
AUTHOR:SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE BESSEL FUNCTION OF THE FIRST KIND, ORDER ZERO, OF A FLOATING POINT ARGUMENT, X.

890178 9-SERIES BESSEL FUNCTION SUBROUTINE
AUTHOR:G. V. CONIGLIO - BAUSCH + LOMB
ABSTRACT:
TO COMPUTE THE VALUES OF THE BESSEL FUNCTIONS JP(X) FOR REAL ARGUMENT X AND THE SET OF ALL INTEGER ORDERS FROM 0 TO N.

890179 9-SERIES BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0,K1
AUTHOR:P. VIEILLARD - CAE, CITEC
ABSTRACT:
TO COMPUTE THE FLOATING POINT BESSEL FUNCTIONS, J0, J1, Y0, Y1, I0, I1, K0, OR K1, OF A SPECIFIED FLOATING POINT ARGUMENT.

890180 9-SERIES GRADIENT MINIMIZATION ROUTINE - FPMIN
AUTHOR:C. M. HOODSIDE - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO FIND THE MINIMUM OF A DIFFERENTIABLE FUNCTION.

890181 9-SERIES DEFINITE INTEGRAL EVALUATION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM CALCULATES THE INTEGRAL OF A FUNCTION BETWEEN SPECIFIED LIMITS AND WITH SPECIFIED INTERVALS. THE OPERATOR MUST PROVIDE A FUNCTION F(X) WHICH EVALUATES THE INTEGRAND.

890182 9-SERIES DOUBLE INTEGRATION BY SIMPSONS
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM CALCULATES THE DOUBLE INTEGRAL OF A FUNCTION GIVEN THE INNER AND OUTER LIMITS OF INTEGRATION AND THE NUMBER OF INTERVALS TO BE USED BY APPLYING SIMPSONS RULE. THE OPERATOR MUST PROVIDE A FUNCTION V(X,Y,Z) WHICH EVALUATES THE INTEGRAND.

890183 9-SERIES RUNGE-KUTTA INTEGRATION
AUTHOR:RICHARD C. BOWMAN - XDS
ABSTRACT:
TO PROVIDE A SOLUTION FOR FIRST-ORDER, SECOND-ORDER, OR COMBINATION OF FIRST AND SECOND ORDER DIFFERENTIAL EQUATIONS.

890184 9-SERIES SOLUTION OF DIFFERENTIAL EQUATIONS R-K-G
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A PAIR OF FORTRAN II SUBROUTINE SUBPROGRAMS TO ALLOW THE FINITE DIFFERENCE SOLUTION OF A SET OF SIMULTANEOUS, FIRST-ORDER, ORDINARY DIFFERENTIAL EQUATIONS BY THE RUNGE-KUTTA-GILL PROCEDURE. A MAIN PROGRAM IS ALSO INCLUDED AS AN EXAMPLE, WHICH COULD BE USED TO INPUT AND SOLVE COMPLETE EQUATIONS.

890185 9-SERIES LAGRANGE INTERPOLATION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
GIVEN N+1 CORRESPONDING PAIRS OF DATA POINTS, WHERE THE VALUES OF THE INDEPENDENT VARIABLE MAY OR MAY NOT BE EQUIDISTANT, THE PROGRAM EVALUATES THE FUNCTION OF ANY SPECIFIED POINT USING LAGRANGE'S FORMULA OF INTERPOLATION.

890186 9-SERIES POLYNOMIAL CURVE FIT
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
THE PROGRAM FITS A POLYNOMIAL OF DEGREE LESS THAN 11 THROUGH A SET OF DATA POINTS USING THE METHOD OF LEAST SQUARES. PROVISION IS MADE FOR CHOOSING DEGREE, NUMBER OF POINTS, AND FIRST POINT TO BE USED.

890187 9-SERIES LEAST SQUARES POLYNOMIAL
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
PROGRAM READS IN FROM PAPER TAPE OR TYPEWRITER UP TO 200 DATA POINTS. LEAST SQUARES POLYNOMIAL IS COMPUTED AND COEFFICIENTS TYPED OUT. MAXIMUM AND ROOT-MEAN-SQUARE DEVIATION OF THIS CURVE FROM DATA POINTS IS TYPED OUT. DEGREE,NUMBER OF DATA POINTS TO BE USED, AND FIRST POINT TO BE USED ARE TYPED IN.

890188 9-SERIES FOURIER COEFFICIENTS PERIODIC FUNCTIONS
AUTHOR:W. B. LENG - TMC
ABSTRACT:
A FORTRAN PROGRAM FOR COMPUTING THE FOURIER SERIES COEFFICIENTS OF A PERIODIC FUNCTION AND THE CURVE DERIVED FROM THEM.

890189 9-SERIES FREQUENCY BY PRONY'S METHOD
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES AN APPROXIMATE FREQUENCY COMPUTATION FOR EMPIRIC DATA REPRESENTABLE BY A SINE WAVE.

890190 9-SERIES SINE WAVE MONITOR
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A LEAST SQUARE CURVE FIT, INCLUDING THE FREQUENCY, TO A SINE WAVE OF EMPIRIC DATA. ALSO PROVIDES A FOURIER COEFFICIENT RETRIEVAL WHEN ONE USES THE ROUTINE TO SUBTRACT OUT THE LOWER HARMONICS.

890191 9-SERIES CURVE/SURFACE FIT ARBITRARY FUNCTION
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
THIS ROUTINE IS USED TO CURVE FIT EMPIRIC DATA TO ANY USER SELECTED COMPUTABLE FUNCTION. BESIDES THE USUAL POLYNOMIAL FITTING, THIS ROUTINE IS ALMOST AS EASILY USED TO CURVE FIT WITH EXPONENTIALS, FOURIER EXPANSIONS, ALSO DATA SMOOTHING, INSTRUMENT CALIBRATION CURVES, DAMPED SINE WAVES, SAWTOOTH WAVES, DOPPLER CURVES, ETC.

890192 9-SERIES NON-LINEAR CURVE FIT PROGRAM
AUTHOR:R. E. AUSTIN - NASA
ABSTRACT:
TO DETERMINE TYPE OF CURVE THAT IS REPRESENTATIVE OF PARTICULAR INPUT POINTS AND COMPUTE ADDITIONAL POINTS.

890193 9-SERIES MATRIX MULTIPLICATION
AUTHOR:D. C. BAXTER
ABSTRACT:
COMPUTES THE PRODUCT OF TWO MATRIX ARRAYS.

890194 9-SERIES REAL MATRIX INVERSION (RMINV)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.

890195 9-SERIES REAL MATRIX MULTIPLY (RMMUL)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.

890196 9-SERIES REAL MATRIX TRANSPOSE (RMTRA)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.

890197 9-SERIES REAL MATRIX ADDITION (RMADD)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.

890198 9-SERIES REAL MATRIX SUBTRACTION(RMSUB)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES

890199 9-SERIES BOOLIAN MATRIX (FLAG PACKING)
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CORP.
ABSTRACT:
SAVES CORE STORAGE WHEN LARGE ARRAYS OF YES-NO FLAGS ARE REQUIRED. FOUR POSSIBLE OPERATIONS (INVERT, SET TO ZERO, SET TO ONE, AND TEST) CAN BE PERFORMED ON A DECISION MATRIX WHICH NEEDS ONLY 1/24TH THE USUAL CORE STORAGE.

890200 9-SERIES DETERMINANT EVALUATION
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
COMPUTES THE DETERMINANT OF A MATRIX USING THE METHOD OF TRIANGULARIZATION.

890201 9-SERIES MATRIX INVERSION,DETERMINANT CALCULATION
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
GAUSS-JORDAN ELIMINATION METHOD IS USED TO INVERT MATRIX AND CALCULATE DETERMINANT. ROW AND COLUMN ARE SEARCHED FOR LARGEST ELEMENT TO BE USED AS PIVOT.

890202 9-SERIES SOLUTION OF SIMULTANEOUS EQUATIONS
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
THE GAUSS-JORDAN ELIMINATION METHOD IS USED TO SOLVE SIMULTANEOUS ALGEBRAIC EQUATIONS. ROW INTERCHANGING IS USED TO PRODUCE A NON-ZERO PIVOT ELEMENT.

890203 9-SERIES PRINCIPAL AXES FACTOR ANALYSIS
AUTHOR:SHELDON KLEE - XDS
ABSTRACT:
A PROGRAM THAT EXTRACTS ANY NUMBER OF FACTORS FROM A CORRELATION MATRIX.

890204 9-SERIES MATRIX PACKAGE FOR ARITHMETIC OPERATIONS
AUTHOR:W.S. LASOR - XDS
ABSTRACT:
PROVIDES THE USER WITH A SET OF SUBROUTINES ENABLING HIM TO PERFORM ARITHMETIC OPERATIONS ON MATRICES OF ANY SIZE AND TO FACILITATE THE MANIPULATION OF THESE ARRAYS IN STORAGE.

890205 9-SERIES GAUSSIAN NORMAL PROBABILITY ORDINATE
AUTHOR:SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY FUNCTION ORDINATE OF AN ARGUMENT.

890206 9-SERIES GAUSSIAN NORMAL PROBABILITY INTEGRAL
AUTHOR:SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY INTEGRAL OF AN ARGUMENT USING AN APPROXIMATION FORMULA.

890207 9-SERIES SUPERCOMPRESSIBILITY FACTORS NATURAL GAS
AUTHOR:TOM WYRICK - TEXAS GAS TRANSMISSION CORP.
ABSTRACT:
A FORTRAN PROGRAM TO CALCULATE AMERICAN GAS ASSOCIATION SUPERCOMPRESSIBILITY FACTORS FOR NATURAL GAS FROM 0 TO 5000 PSIG OVER A RANGE OF -40 TO 240 F.

890208 9-SERIES MULTIPLE LINEAR REGRESSION
AUTHOR:P. G. FRIEDMAN
ABSTRACT:
A FORTRAN II PROGRAM FOR MULTIPLE LINEAR REGRESSION. THIS PROGRAM ACCEPTS INPUT DATA AND SETS UP THE NORMAL EQUATION MATRIX, WHICH IS THEN INVERTED IN THE LSQ SUBROUTINE.

890209 9-SERIES LEAST SQUARE SUBROUTINE, LSQ
AUTHOR:J. GAINES - XDS
ABSTRACT:
A FORTRAN II SUBPROGRAM TO INVERT THE NORMAL EQUATION MATRIX AND TYPE IN REGRESSION COEFFICIENTS AND OTHER STATISTICAL DATA.

890210 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (IRAND)
AUTHOR:J. GAINES - XDS
ABSTRACT:
IRAND IS A FORTRAN FUNCTION SUBROUTINE OF ONE PARAMETER, THE SEED OFA RANDOM NUMBER SEQUENCE. THE VARIABLE I IN THE FUNTION CALL IRAND (I) IS THE SEED AND IS ORIGINALLY SET BY THE USER. EACH TIME IRAND (I)IS USED, THE RANDOM NUMBER IS LEFT IN I AND IF I IS UNDISTURBED BETWEEN IRAND (I) USES, A SEQUENCE OF FULL, SINGLE PRECISION INTEGERS WITH TOTAL PERIOD OF 224 IS GENERATED. THE SEQUENCE CAN BE RE-INITIALIZED OR CHANGED BY SETTING I TO THE DESIRED VALUE. CALLING SEQUENCE IS IRAND (I). RESULT IS THE RANDOM NUMBER IN I. RANGE OF VALUES IS -8388608 TO +8388607.

890211 9-SERIES RANDOM NUMBER GENERATOR
AUTHOR:MICHAEL LINDENMEYER - NASA
ABSTRACT:
A FORTRAN II FUNCTION WHICH GENERATES (A) RANDOM NUMBERS FROM THE UNIFORM DISTRIBUTION, NORMALIZED BETWEEN -1.0 AND +1.0, OR (B) RANDOM NUMBERS TAKEN FROM THE NORMAL (GAUSSIAN) DISTRIBUTION WITH MEAN 0.0 AND VARIANCE 1.0. A FORTRAN TEST PROGRAM IS PROVIDED AS A DEMONSTRATION OF THE USE OF THE PROGRAM AND TO COMPUTE RANDOM NUMBERS AS A CHECK OF THE VALIDITY OF THE ROUTINE.

890212 9-SERIES RANDOM NUMBER GENERATOR, RANDU
AUTHOR:BERNARD A. SOBEL - ETHYL CORP.
ABSTRACT:
INITIALLY ENTER THE FUNCTION WITH THE FOLLOWING TYPE STATEMENT: X=RANDU(1). THIS ENABLES THE PROGRAM TO CYCLE SO THAT THE STARTING NUMBERS ARE INDETERMINATE. SENSE SWITCHES 4 AND 3 ARE INITIALLY RESET AND MAY BE SET AT ANY TIME AFTER FIRST ENTRY (IN ORDER OF SSW4 AND THEN SSW3). ONCE USED, THE SENSE SWITCHES ARE NEVER RECALLED AND MAY BE USED FOR OTHER PURPOSES. ALL SUBSEQUENT ENTRIES TO THIS FUNCTION ARE AS FOLLOWS: X= RANDU(2).

890213 9-SERIES UNCORRELATED RANDOM NUMBER GENERATOR
AUTHOR:WILLIAM B. KENDALL - JET PROPULSION LABS
ABSTRACT:
A FAST AND SIMPLE ROUTINE FOR THE GENERATION OF UNCORRELATED PSEUDO-RANDOM NUMBERS (47-BITS), UNIFORMLY DISTRIBUTED BETWEEN ZERO AND ONE. THIS ROUTINE IS SELF-LOADING, RELOCATABLE AND IS LOADED BY THE NORMAL FILL PROCEDURE. THE ROUTINE IS ENTERED BY A BRM INSTRUCTION. THE CONTENTS OF THE A AND B REGISTERS ARE DESTROY ED AND REPLACED WITH THE NEXT POSITIVE DOUBLE PRECISION 47-BIT PSEUDO-RANDOM NUMBER, THE MOST SIGNIFICANT 23 BITS IN THE A REGISTER, THE LEAST SIGNIFICANT 24 BITS IN THE B REGISTER.

890214 9-SERIES PSEUDO-RANDOM NUMBER GENERATOR (RANDX)
AUTHOR:C. M. WOODSIDE - NATIONAL RESEARCH COUNCIL
ABSTRACT:
GENERATES A SINGLE FLOATING-POINT NORMAL PSEUDO-RANDOM VARIATE, WITH UNIT STANDARD DEVIATION.

890215 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)
AUTHOR:J. GAINES - XDS
ABSTRACT:
PROVIDES A RANDOM NUMBER GENERATOR IN THE FORM OF A MACHINE LANGUAGE SUBROUTINE.

890217 9-SERIES LINEAR REGRESSION ANALYSIS
AUTHOR:S. KLEE - XDS
ABSTRACT:
DESIGNED AS AN AID IN LINEAR REGRESSION ANALYSIS TO DETERMINE THE BEST FIT OF COMBINATIONS OF DEPENDENT AND INDEPENDENT VARIABLES, WHERE LITTLE IS KNOWN OF THE FUNCTIONAL RELATIONSHIPS, OR OF THE VARIABLES THAT ARE IMPORTANT. A SUPPLEMENTARY PROGRAM IS PROVIDED THAT WILL COMPUTE THE REGRESSION COEFFICIENTS ASSOCIATED WITH SELECTED OUTPUT VARIABLE COMBINATIONS FROM THE ABOVE PROGRAM.

890219 9-SERIES FORTRAN II MAGNETIC TAPE I/O ROUTINE
AUTHOR:R.R.ROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
A FORTRAN CALLABLE SUBROUTINE TO PROVIDE I/O CONTROL FOR A MAGNETIC TAPE UNIT, NUMBER 0 THROUGH 7, ON THE W, Y, C, OR D CHANNEL.

890220 9-SERIES READ BLOCKED INPUT FROM MAG. TAPE
AUTHOR:MARY SPENCER - UNIV. OF CHICAGO
ABSTRACT:
A SUBROUTINE FOR THE MODIFICATION OF THE FORTRAN SYSTEM WHICH WILL ALLOW THE SYSTEM TO ACCEPT BLOCKED LOGICAL RECORDS AS BCD INPUT.

890221 9-SERIES CONVOLUTION & FILTERING UNIT I/O ROUTINE
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
PROGRAM TO FACILITATE INPUT/OUTPUT TO THE XDS CFE-1 UNIT TO COMPUTE (1) THE CORRELATION OF TWO TIME SERIES, (2) THE CONVOLUTION OF A TIME SERIES WITH A FILTER OPERATOR, AND (3)THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.

890222 9-SERIES CONVOLUTION,CORR,FILTER., OF TIME SERIES
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
ROUTINE COMPUTES THE CORRELATION OF TWO TIME SERIES, THE CONVOLUTION OF A TIME SERIES WITH A FILTER, OR THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.

890223 9-SERIES BLANK PAPER TAPE LEADER GENERATOR
AUTHOR:DR. D. GOSPODNETIC
ABSTRACT:
PUNCHES 12 CHARACTERS OF BLANK PAPER TAPE LEADER.

890224 9-SERIES FAST FORTRAN PRINT SUBROUTINE
AUTHOR:JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
INCREASES THE SPEED OF THE XDS FORTRAN PRINT ROUTINE. THIS PROGRAM CHECKS FOR ZONES AND PRINTS ONLY THOSE REQUIRED.

890225 9-SERIES OSCILLOSCOPE DISPLAY ROUTINE
AUTHOR:S. KLEE - XDS
ABSTRACT:
PROVIDES FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.

890226 9-SERIES PLOT PACKAGE FOR XDS 9175 PLOTTER
AUTHOR:A. SAVITZKY - PERKIN-ELMER
ABSTRACT:
PROVIDES USERS OF XDS 900 SERIES COMPUTERS AND XDS 9175 PLOTTERS (CALCOMP) THE CAPABILITY OF COMPREHENSIVE GRAPHICAL OUTPUT DISPLAY; OR TO USE ANY PART OF THE PACKAGE AS NECESSARY

890227 9-SERIES SCOOP TAPE PLOTTING ROUTINE, SCOPL-2
AUTHOR:G. LENTZ - UNIV. OF CHICAGO
ABSTRACT:
PROGRAM TO PLOT TAPES PREPARED BY THE CALCOMP SCOOP PROGRAMMING PACKAGE ON THE XDS ON-LINE PLOTTER.

890228 9-SERIES GENERAL GRAPHIC GENERA-PLOTTERTER
AUTHOR:R. T. MACINTYRE - BAUSCH + LOMB, INC.
ABSTRACT:
PROVIDES GENERAL PURPOSE PRODUCTION OF MASTER COPIES OF FORMS, CHARTS, DIAGRAMS, ETC. ON THE CALCOMP PLOTTER.

890229 9-SERIES ON-LINE PRINT ROUTINE,PRNLN
AUTHOR:L.A. LITTLETON, UNIVERSITY OF CHICAGO
ABSTRACT:
PRNLN PROVIDES A CONVENIENT CALLING SEQUENCE FORMAT FOR PRINTING ON THE TYPEWRITER AND/OR PRINTER.

890232 9-SERIES PLOT PACKAGE WITH LABELING
AUTHOR:K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
FACILITATES CREATION OF SCALED, LABELED PLOTS. THIS FORTRAN SUBROUTINE COMPUTES NEW VALUES OF VMIN AND VMAX WITH VARIABLE UNITS/IN. SELECTED FROM 1, 2, 4, 5 AND A POWER OF TEN. LONG IS THE DESIRED LENGTH OF THE AXIS IN INCHES AND IVSC IS THE POWER OF TEN FOUND BY THE SUBROUTINE.

890233 9-SERIES SEMI-LOG/LINEAR PLOT PACKAGE
AUTHOR:J. DARSIE - HONEYWELL, INC.
ABSTRACT:
FACILITATES PROGRAMMING SEMI-LOG PLOTS IN FORTRAN. A CALL TO A211AXIS SETS UP THE AXIS, DRAWS AND LABELS IT, AND SETS UP A211PLOT. A CALL THEN TO A211PLOT PLOTS THE CURVE.

890234 9-SERIES PLOT PACKAGE SPECIAL CHART A03
AUTHOR:K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
THIS PACKAGE ALLOWS USE OF THE SPECIAL CHART =A03. IT DRAWS THE AXIS,SCALES AS NECESSARY TO MAKE THE DATA FIT THE PAPER,AND SETS UP A200PLOT. THEN A200PLOT SHOULD BE CALLED TO PLOT THE CURVES. THESE SYMBOLS ARE .1 INCH IN SIZE. INTERRUPTS ON THE W BUFFER

890235 9-SERIES PLOT PACKAGE - NON-LABELING
AUTHOR:K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
THIS IS A NONLABELING FORTRAN PLOTTING SUBROUTINE WHICH WILL SET UP FOR PLOTTING AND DO AUTOMATIC SCALING FOR USE WITH A200 PLOT. TO OBTAIN MULTIPLE CURVES ON ONE AXIS(FRAME),ENTER A201 AXIS ONCE AND A200 PLOT ONCE FOR EACH CURVE.

890236 9-SERIES POLAR PLOT PACKAGE
AUTHOR: J. DARSIE - HONEYWELL, INC.
ABSTRACT:
THIS PACKAGE SETS UP A FRAME FOR A POLAR PLOT BY A CALL TO A212 AXIS AND THEN PLOTS IN A POLAR FASHION BY CALLING THE A212PLOT ROUTINE. IT ALSO LABELS THE AXIS.

890237 9-SERIES CALCOMP PLOTTER SUBROUTINE PACKAGE
AUTHOR:W. G. PECK, R. T. MACINTYRE - BAUSCH AND LOMB, INC.
ABSTRACT:
GENERAL PURPOSE PLOTTING SUBROUTINES WITH MINIMUM SPACE REQUIREMENTS AND MAXIMUM OPERATING SPEED.

890239 9-SERIES CORE DUMP TO MAGNETIC TAPE PROGRAM
AUTHOR:JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO MAGNETIC TAPE. LOAD PROGRAM BY STANDARD FILL FROM EITHER CARDS OR PAPER TAPE. BRU TO LOCATION 37675, SET A REGISTER WITH STARTING LOCATION TO BE DUMPED AND B REGISTER WITH ENDING LOCATION, CLEAR HALF AND GO.

890240 9-SERIES CORE DUMP TO UNBUFFERED LINEPRINTER
AUTHOR:JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO UNBUFFERED LINEPRINTER.

890241 9-SERIES FORTRAN CALCOMP PLOTTER ROUTINE
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIVERSITY
ABSTRACT:
THIS SUBROUTINE IS CALLED FROM A FORTRAN II PROGRAM AND CAN DRAW AXES (LINEAR OR LOGARITHMIC), PLOT TITLES, LABEL AXES AND PLOT EITHER CONTINUOUS LINE PLOTS OR POINT PLOTS.

890242 9300 OSCILLOSCOPE DISPLAY ROUTINE
AUTHOR:S. KLEE, XDS
ABSTRACT:
TO PROVIDE FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.
COMMENTS:
COMPUTER CONFIGURATION: XDS 9300 WITH 21 INCH CRT DISPLAY. SOURCE LANGUAGE: META-SYMBOL. STORAGE:278 DEC

890243 9-SERIES XDS 920/930 SYMBOL MNEMONIC TABLE
AUTHOR: XDS - W.B. KENDALL - JET PROPULSION LABS
ABSTRACT:
PROVIDES SYMBOL WITH THE MNEMONIC TABLE OF THE TARGET MACHINE. LOCALIZES OTHER ASSEMBLER FEATURES WHICH ARE ORIENTED SPECIFICALLY TO THE TARGET MACHINE. ESTABLISHES THE RETURN LINKAGE FOR EXIT FROM SYMBOL.

890244 9-SERIES COMPUTER ASSEMBLY PROGRAM FOR 2K-910
AUTHOR:JOHN H. OKERLUND - UNIV. OF WASHINGTON
ABSTRACT:
AN ABBREVIATED ASSEMBLY PROGRAM FOR THE XDS 910 WITH 2K CORE MEMORY.

890245 9-SERIES AC-DC CIRCUIT ANALYSIS COMPILER
AUTHOR:CLIFFORD J. VANDERYACHT - SPARTON ELECTRONICS
ABSTRACT:
COMPILES STATEMENTS DESCRIBING AN ELECTRONIC CIRCUIT WRITTEN IN A BRANCH NOTATION INTO A FORTRAN PROGRAM CONTAINING MATRIX EQUATIONS.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4096 WORD OF MEMORY WITH PAPER TAPE READER, AND PUNCH AND CONSOLE TYPEWRITER. PAPER TAPE COMES IN FOUR PARTS

890246 9-SERIES MONITOR INPUT/OUTPUT PACKAGE-QUINOUT
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
DESIGNED TO HANDLE BUFFERED MAGNETIC TAPE, LINE PRINTER, CARD READER, OR TYPEWRITER I/O FOR FORTRAN IV AND META-SYMBOL PROGRAMS.

890247 9-SERIES FORTRAN SEARCH ARRAY
AUTHOR:K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
SEARCHES A FIXED-POINT ARRAY FOR A MATCHING ITEM AND RETURNS THE LOCATION OF THE ITEM.

890248 9-SERIES SORT SUBROUTINE
AUTHOR:GORDON LENTZ - UNIVERSITY OF CHICAGO
ABSTRACT:
ROUTINE TO SORT AN ARRAY OR ARRAYS OF NUMBERS STORED IN CORE INTO ASCENDING SEQUENCE BASED ON SORT KEY.

890249 9-SERIES EDIT, CHARACTER STREAM EDITING PROGRAM
AUTHOR:JACK MACHANIK
ABSTRACT:
TO MORE EASILY EDIT FORTRAN SOURCE TAPES, SYMBOL SOURCE TAPES, AND FORTRAN BCD DATA TAPES, BY CONTENT AS WELL AS LOCATION.

890250 9-SERIES LABEL TRACE ROUTINE, L-FORTRANRAN
AUTHOR:PAUL JORGENSEN - AUTOMATIC ELECTRIC LABS
ABSTRACT:
THIS PROGRAM IS A REVISION OF THE LABEL TRACE ROUTINE (SYS180) CONTAINED IN THE FORTRAN LIBRARY. BREAKPOINT SWITCH 1 IS USED TO PERMIT OR SUPPRESS THE LABEL TRACE AT EXECUTION TIME.

890251 9-SERIES REAL TIME FORTRAN OCTAL DUMP SUBROUTINE
AUTHOR:T. H. VINO
ABSTRACT:
PROVIDES AN OCTAL DUMP FOR DEBUGGING

890252 9-SERIES MEMORY DUMP FOR 9372 PRINTER
AUTHOR:K. JAMERSON - HONEYWELL, INC.
ABSTRACT:
PRINTS SPECIFIED SECTIONS OF MEMORY, 8 WORDS PER LINE, ON THE 9372 LINE PRINTER. BIT PATTERNS WHICH REPEAT ARE INDICATED RATHER THAN PRINTED REDUNDANTLY.

890253 9-SERIES FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST
AUTHOR:R. F. ULRICH, DOUGLAS AIRCRAFT CO.
ABSTRACT:
GIVES A RUN-TIME SYMBOLIC LISTING OF ANY FORTRAN ROUTINE IN SYMBOL 8 LANGUAGE.

890254 9-SERIES SHIFT ROUTINE FOR A AND B REGISTERS
AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
SHF POP CONSISTS OF ALS, ARS, BLS AND BRS. THE PACKAGE PROVIDES SINGLE-REGISTER SHIFT INSTRUCTIONS IN EACH DIRECTION FOR BOTH THE A AND B REGISTERS.

890255 9-SERIES HALT AND TRANSFER SIMULATION ROUTINE
AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
PROVIDES A POP TO SIMULATE AN INTERRUPT-PROTECTED 'HALT AND TRANSFER' INSTRUCTION.

890256 9-SERIES SIMULATION OF SKIP ON COMPARISON INST.
AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO, LASR
ABSTRACT:
PROVIDES A POP TO SIMULATE A SINGLE INSTRUCTION 'SKIP IF A LESS THAN OR EQUAL TO M.'

890257 9-SERIES SINGLE INSTRUCTION FLAG OPERATION, FLGPO
AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
CONSISTS OF 5 POPS WHICH PROVIDE SINGLE INSTRUCTION FLAG SETTING, RESETTING, AND TESTING FOR WHICH THE FLAG DOES NOT REQUIRE EXTRA STORAGE.

890258 9-SERIES LINE PRINTER PLOTTING PACKAGE
AUTHOR:MRS. PATRICIA GRASSLER, THE MITRE CORP.
ABSTRACT:
ROUTINES FOR PLOTTING DATA ON A LINE PRINTER.

890259 9-SERIES GRAPH ROUT FOR THE LINEPRINTER-PLOTTING
AUTHOR:B. BUND, PERKIN-ELMER AND R.R. BOSE, DOUGLAS AIRCRAFT CO.
ABSTRACT:
EIGHT SUBROUTINES PROVIDE CAPABILITY FOR ON-LINE GRAPHING USING THE LINE PRINTER. THESE ROUTINES ALLOW THREE METHODS OF PLOTTING POINTS WITH VERTICAL AND HORIZONTAL AXES WHICH ARE SCALED AND TITLED. THE AXES ARE ALONG THE LEFTHAND AND BOTTOM EDGES OF THE PAGE.

890260 9-SERIES GRAPH ROUTINES FOR LINE PRINTER-PLOTTING
AUTHOR:BARBARA BUND - PERKIN-ELMER CORP.
ABSTRACT:
PROVIDES CAPABILITY FOR ON-LINE PLOTTING USING THE LINE PRINTER

890261 9-SERIES TAPE HANDLING ROUTINE - TAPE
AUTHOR:C. A. BURNS - UNIV. OF CHICAGO
ABSTRACT:
A ROUTINE TO PROVIDE CONVENIENT MAGNETIC TAPE HANDLING.

890262 9-SERIES TYPEWRITER (STD)LISTING OUTPUT SUBR
AUTHOR:W. B. KENDALL - JET PROPULSION LABS
ABSTRACT:
TO OUTPUT ON THE TYPEWRITER (STANDARD SELECTRIC) THE SYMBOL OUTPUT LISTING, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BPT4 CONTROL.

890263 9-SERIES TYPEWRITER (15'CARRIAGE) LISTING OUTPUT
AUTHOR:W. B. KENDALL - JPL SUBROUTINE.
ABSTRACT:
TO OUTPUT ON A 15' WIDE CARRIAGE SELECTRIC, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT 4 CONTROL.

890264 9-SERIES SET OR DETECT ITH BIT OF A WORD
AUTHOR: MISS G. P. GREEN - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A SUBPROGRAM TO SET OR DETECT THE ITH BIT OF A WORD.

890265 9-SERIES CARD READER END OF FILE TEST
AUTHOR:P. J. WELLENSTEIN
ABSTRACT:
FORTRAN SUBROUTINE TO TEST FOR EOF CONDITION ON CARD READER.

890266 9-SERIES LINE PRINTER LISTING SUBROUTINE
AUTHOR:W. B. KENDALL - JET PROPULSION LABS
ABSTRACT:
PERMITS OUTPUT LISTING ON A LINE PRINTER, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT CONTROL.

890267 900-SERIES FORTRAN FLOWCHART PROGRAM
AUTHOR:D. PIXLEY, BAUSCH & LOMB,INC.
ABSTRACT:
PRODUCES A FLOWCHART FROM ANY GIVEN FORTRAN II PROGRAM.
COMMENTS:
COMPUTER CONFIGURATION: ANY 900 SERIES COMPUTER WITH CARD READER AND LINE PRINTER. 3179 DECIMAL MEMORY
SOURCE LANGUAGE: FORTRAN II

890268 9-SERIES PRINTER UTILITY PROGRAM
AUTHOR:D. PIXLEY - BAUSCH + LOMB
ABSTRACT:
PROVIDES A GENERAL MEANS FOR LISTING CARDS ON A HIGH-SPEED PRINTER WITH A VARIETY OF SPECIAL-PURPOSE OPTIONS WHICH WOULD OTHERWISE HAVE TO BE PROGRAMMED SPECIFICALLY FOR A GIVEN TYPE LISTING.

890269 9-SERIES CARD RESEQUENCE - DUPLICATOR (REPRO)
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A CONVENIENT IN-HOUSE METHOD OF RESEQUENCING A SYMBOLIC PROGRAM CARD DECK, AND TO PRODUCE A FINAL RESEQUENCED VERSION OF A CARD DECK WITHOUT RELEASING THE DECK TO EAM.

890270 9-SERIES LIBRARY UPDATE EXAMPLE
AUTHOR:K. P. AMBROSE, DOUGLAS AIRCRAFT CO.
ABSTRACT:
TO PROVIDE A SKELETON FORM, FOR REFERENCE, OF A COMPLETE USERS' FORTRAN LIBRARY PACKAGE INCLUDING ALL CONTROL CARDS NECESSARY TO COMPILE-ASSEMBLE AND INSERT THE BINARY OUTPUT AS THE FIRST ROUTINES IN THE FORTRAN LIBRARY.

890271 9-SERIES PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG.
AUTHOR:W. B. KENDALL - JPL TAPE INTERM. OUTPUT SUBROUTINE
ABSTRACT:
TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED, IF BPT 3 IS SET, FROM PAPER TAPE (OR TYPEWRITER) TO MAGNETIC TAPE UNIT 1, FROM WHICH THEY ARE READ DURING PASS 2.

890272 9-SERIES CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE
AUTHOR:W. B. KENDALL - JPL INTERM. OUTPUT SUBROUTINE (CSI)
ABSTRACT:
TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED FROM CARDS TO MAGNETIC TAPE UNIT 1 (BPT 3 SET), FROM WHICH THEY ARE READ DURING PASS 2.

890273 9-SERIES BINARY TO DECIMAL CONVERSION
AUTHOR:H.P.BRIAR - AEROJET-GENERAL CORP.
ABSTRACT:
BID A BINARY TO DECIMAL SUBROUTINE WILL CONVERT THE CONTENTS OF A AND B INTO 7 DECIMAL DIGITS AND DECIMAL POINT OR A - SIGN, DECIMAL POINT AND 6 DIGITS. THE CONVERTED BID WILL BE PACKED 2 CH/WD READY FOR OUTPUT WITH LEADING ZEROS SUPPRESSED.

890274 9-SERIES XDS 92 PAPER TAPE EDITOR
AUTHOR:H. P. BRIAR - AEROJET-GENERAL CORP
ABSTRACT:
PROPER SETTING OF THE BREAKPOINT SWITCHES WITH AUXILIARY TYPING OF THE NUMBER OF RECORDS TO BE PROCESSED ALLOWS REPRODUCTION, LISTING, INSERTION OR DELETION OF SYMBOL SOURCE OR FORTRAN SOURCE STATEMENTS.

890275 9-SERIES FREQUENCY RESPONSE OF DIGITAL TRANSFER
AUTHOR:D. C. BAXTER FUNCTION
ABSTRACT:
COMPUTATION OF AMPLITUDE AND PHASE OF THE RESPONSE OF A LINEAR SAMPLED-DATA SYSTEM TO AN INPUT SINUSOID OF FREQUENCY W.

890276 9-SERIES INVERSE Z-TRANSFORM
AUTHOR:R. E. GAGNE
ABSTRACT:
CALCULATION OF THE FIRST MTM+1 TERMS OF THE POWER SERIES INVERSION OF A Z TRANSFORM.

890277 9-SERIES D-T-L CIRCUIT DESIGN
AUTHOR:H. B. LENG AND G. ROGOFF
ABSTRACT:
CALCULATES R1, R2, R3, FAN-OUT AND DISSIPATED POWER FOR THE FAMILIAR D-T-L NAND GATE CIRCUIT, GIVING ANSWERS IN EXACT CALCULATED VALUES OR IN COMMERCIALLY AVAILABLE STANDARD RESISTANCES FOR WORST-CASE CONDITIONS.

890278 9-SERIES BASIC CRITICAL PATH PROGRAM
AUTHOR:R. BOWMAN - XDS
ABSTRACT:
A BASIC PROGRAM THAT CALCULATES THE CRITICAL PATH OF A SPECIFIC PROJECT ON A MINIMUM XDS 900 SERIES COMPUTER; ALSO, SLACK TIMES ARE COMPUTED FOR ALL TASKS WITHIN THE PROJECT.

890279 9-SERIES U.S.STANDARD EARTH MODEL ATMOSPHERE
AUTHOR:SAM H. HARLIN- XDS ROUTINE FOR 455 LATITUDE.
ABSTRACT:
CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE AND SPEED OF SOUND AT ANY GIVEN EARTH ALTITUDE, AT A LATITUDE OF 45.

890280 9-SERIES U.S.STANDARD EARTH ATMOSPHERE ROUTINE
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
ROUTINE TO CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE AND AT ANY GIVEN LATITUDE.

890281 9-SERIES U.S.STANDARD MARS ATMOSPHERE ROUTINE(198
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE WITHIN THE SPHERE OF INFLUENCE OF MARS.

890282 9-SERIES U.S.STANDARD VENUS ATMOSPHERE ROUTINE
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND AT ANY GIVEN ALTITUDE OF VENUS' SPHERE-OF-INFLUENCE.

890283 9-SERIES CIRCUIT DESIGN ANALYSIS CIRC DC
AUTHOR:R. D. MCNAIR - XDS
ABSTRACT:
A FORTRAN II BASED SOFTWARE PACKAGE TO PERFORM DC CIRCUIT DESIGN ANALYSIS

890284 9-SERIES AIRPLANE LAT-DIR TIME HISTORY
AUTHOR:JAMES L. SAMUELS
ABSTRACT:
SOLVES THE THREE DEGREE-OF-FREEDOM LATERAL-DIRECTIONAL AIRPLANE EQUATIONS OF MOTION, USING FOURTH ORDER RUNGE-KUTTA INTEGRATION AND TYPES A TIME HISTORY. USEFUL FOR CHECKING LAT-DIR PORTION OF ANALOG SIMULATIONS.

890285 9-SERIES UTILITIES INDUSTRY PACKAGE
AUTHOR:C. PASTEL AND V. WRAY - SOUTHERN CALIFORNIA EDISON
ABSTRACT:
PACKAGE OF SEVEN ROUTINES TO PROVIDE THE FOLLOWING: (1) GENERALIZED METHOD FOR SOLVING POWER SYSTEM LOAD FLOWS; (2) RATE AND REVENUE EVALUATION; (3) LINE PROFILE SURVEY; (4) VOLTAGE DROP AND LOSS EVALUATION. (5) RULING SPAN CALCULATION; (6) PROBABILITY OF LOSS OF LOAD COMPUTATION; (7) TRANSFORMER HEAT RUN.

890286 9-SERIES RPL, A DATA REDUCTION LANG. PRECOMPILER
AUTHOR:FRANK C. BEQUAERT - MITRE CORP.
ABSTRACT:
RPL IS A PRECOMPILER WRITTEN IN FORTRAN II THAT GENERATES FORTRAN II OUTPUT STATEMENTS ON MAGNETIC TAPE. THE PROGRAM ALLOWS THE USE OF A DATA BASE DICTIONARY THAT MAKES IT UNNECESS ARY FOR THE USER TO KNOW WHERE WITHIN A MAGNETIC TAPE RECORD PIECES OF DATA ARE RECORDED. RPL PROVIDES A NUMBER OF PROGRAM GENERATION FUNCTIONS WHICH GENERATE AS OUTPUT FORTRAN PROGRAM SEGMENTS THAT PERFORM DATA REDUCTION OPERATIONS.

890287 9-SERIES ON-LINE MATHEMATICAL COMPILER
AUTHOR:R. L. SCHWARTZ - XDS
ABSTRACT:
PROVIDES THE USER WITH THE CAPABILITY OF USING HIS XDS 900 SERIES COMPUTER AS A SOPHISTICATED DESK CALCULATOR.

890288 9-SERIES LOGICAL,BIT, AND CHARACTER MANIPULATION
AUTHOR:H. PACHON - AUTOMATIC ELECTRIC LABS
ABSTRACT:
A PACKAGE OF ROUTINES TO EXTEND THE FLEXIBILITY OF THE XDS FORTRAN II PROGRAMMING SYSTEM TO INCLUDE THE ENCODING OF NON-NUMERICAL PROGRAMS.

890289 9-SERIES LINE PRINTER PLOTTING ROUTINE
AUTHOR:P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
PROVIDES A PLOT OF A SET OF POINTS WHOSE COORDINATES ARE STORED IN X AND Y ARRAYS.

890290 9-SERIES HISTOGRAPH PLOT LINE PRINTER-HSTPLOT
AUTHOR:P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
THIS SUBROUTINE PLOTS A HISTOGRAPH AND COMPUTES STATISTICAL PARAMETERS OF AN ARBITRARY ARRAY OF FLOATING POINT NUMBERS.

890291 9-SERIES HINNIM - PROGRAM TO PLAY NIM
AUTHOR:P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
THIS IS A DEMONSTRATION PROGRAM THAT ALLOWS THE USER TO PLAY NIM WITH THE COMPUTER.

890292 9-SERIES SAMPLE DATA FROM ANALOG INPUT AND STORE
AUTHOR:I. RAUDZIN - NATIONAL RESEARCH COUNCIL.
ABSTRACT:
A FORTRAN II SUBROUTINE TO SAMPLE DATA FROM A SPECIFIED ANALOG INPUT UNDER EXTERNAL CLOCK CONTROL AND STORE IN MEMORY, TWO SAMPLES/WORD. CALCULATES THE SUMS OF THE FIRST FOUR POWERS.

890293 9-SERIES BCD CONVERSION, XDS - UNIVAC - XDS
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIS BCD CONVERSION BETWEEN THE UNIVAC CHARACTER SET AND THE IBM COMPATIBLE CHARACTER SET USED BY XDS

890294 9-SERIES MAG TAPE POSITION ROUTINE
AUTHOR: MISS I. RAUDZINS - NATIONAL RESEARCH COUNCIL
ABSTRACT:
POSITIONS THE MAG TAPE ON UNIT 0 AT THE NTH FILE, AND OPTIONALLY TO SIMULATE A MAG TAPE FILE TO LOAD THAT FILE.

890295 9-SERIES INTERPOLATION OR EXTRAPOLATION ROUTINE
AUTHOR:R. M. WELCH - DOUGLAS AIRCRAFT CO.
ABSTRACT:
ROUTINE TO INTERPOLATE OR EXTRAPOLATE. TO RETURN EITHER X AS A FUNCTION OF Y OR Y AS A FUNCTION OF X, AND A ROUTINE TO READ DATA CARDS IN AND SET UP NECESSARY TABLES.

890298 9-SERIES PAPER TAPE DUPLICATOR
AUTHOR: H.P. BRIAR - AEROJET GENERAL CORP.
ABSTRACT:
WHEN THE XDS 92 IS EQUIPPED WITH 60 CS PUNCH AND 300 CS READER, THE PROGRAM FURNISHES A READ TAPE/PUNCH TAPE OPERATING MODE FOR THE 300 CS READER TO THE 60 CS PUNCH. THIS PROVIDES A DUPLICATE PAPER TAPE.

890297 9-SERIES UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A CONVENIENT SOFTWARE GRAPHIC PACKAGE (USING THE XDS 9185 GRAPHIC LANGUAGE) FOR PLOTTING ON THE FOLLOWING FIVE DEVICES: XDS 9185 CATHODE RAY TUBE DISPLAY UNIT, LINE PRINTER, TYPEWRITER, CALCOMP, AND SC4020.

890298 9-SERIES FORTRAN II RAD LINKING PROCESSOR-RADLNK
AUTHOR:D. PIXLEY - XDS
ABSTRACT:
THE ENTIRE SYSTEM ALLOWS THE USER TO CREATE A LINK TAPE PROCESSOR WHICH WHEN FILLED FROM TAPE 0, ACCEPTS A STANDARD FORTRAN II LINK TAPE FROM TAPE UNIT 2, PLACES EACH LINK ON THE RAD AND ACCEPTS A TWO DIGIT DECIMAL NUMBER FROM A CARD TO DETERMINE WHICH LINK TO EXECUTE FIRST. SUCCESSIVE LINKS ARE EXECUTED BY THE CALL LINK(N) OR CALL NEXTLINK FORTRAN II STATEMENTS.

890299 9-SERIES SC4020 SUBROUTINES FOR XDS 920/930
AUTHOR:GENERAL DYNAMICS-CONVAIR DIVISION
ABSTRACT:
THE SUBROUTINE PACKAGE IS A SUBSET OF THE STANDARD SC SCORS PACKAGE. MOST OF THE CAPABILITIES AS DESCRIBED IN THE SC DOC. 9500056 ARE PRESENT IN THE XDS PACKAGE. A MINIMUM OF 16K MEMORY WITH A MONARCH CONFIGURATION IS NEEDED TO COMPILE AND EXECUTE USING THE PACKAGE. OUTPUT IS A FORMATED SC4020 TAPE READY FOR PLOTTING.

890300 9-SERIES DISK (RAD) HANDLER
AUTHOR:R. MADDEN - CHEVRON
ABSTRACT:
TO PROVIDE INPUT AND OUTPUT TO A DISK ON CHANNEL E (DACC)

890301 9-SERIES LABEL TRACE, MODIFIED 160 SYS
AUTHOR:E. A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A PROGRAM THAT INITIALIZES THE OPERATION OF A MODIFIED VERSION OF 160SYS TO PROVIDE: 1. A SELECTIVE TRACE OF UP TO 10 LABELS AS SPECIFIED BY THE OPERATOR AT RUN TIME. 2. A TRACE OF NO LABELS. 3. A TRACE OF ALL LABELS.
COMMENTS:
USED BY PROGRAM PACKAGE (160SYS,SELTRA,ALLTRA,NOTRA)

890302 9-SERIES SELECTIVE LABEL TRACE, 160SYS
AUTHOR:E. A.SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A MODIFICATION OF THE STANDARD XDS VERSION OF 160SYS PLUS THREE ASSOCIATED ROUTINES TO PROVIDE A SELECTIVE TRACE OF STATEMENT LABELS IN A FORTRAN PROGRAM.
COMMENTS:
REQUIRES SUBROUTINE TRACE.

890303 9-SERIES INSPECTION/CORRECTION BY TYPEWRITER
AUTHOR:D. DUNN,S. SKLAR
ABSTRACT:
THE PROGRAM ALLOWS INSPECTION AND/OR CORRECTIONS OF MEMORY LOCATIONS BASED ON TYPEWRITER INPUT.

890304 9-SERIES FORTRAN MEMORY SAVE ON MAG TAPE
AUTHOR:DR. K. DAWSON - UNIV. OF ALBERTA
ABSTRACT:
DUMP FORTRAN L OR REAL TIME FORTRAN MEMORY ON A MAG TAPE WITH OPTIONS FOR DUMPING COMMON AND RUN TIME.
COMMENTS:
SEPARATE TAPES ARE PROVIDED FOR FORTRAN L AND REAL TIME FORTRAN

890305 9-SERIES B>SORT-BUSINESS LANGUAGE SORT ROUTINE
AUTHOR:L.R. BRENTON - DOUGLAS SPACE CENTER
ABSTRACT:
XDS B>SORT WAS MODIFIED TO PRESERVE THE ORIGINAL SORT SEQUENCE, THUS PROVIDING FOR MORE THAN ONE LEVEL OF SORTING. I.E. MAJOR, INTERMEDIATE, MINOR.

890306 9-SERIES FORTRAN CARD READ SUBROUTINE (216 SYS)
AUTHOR:B.E. ANDREWS
ABSTRACT:
UPON READING A CARD CONTAINING A ~ IN THE FIRST COLUMN, PROGRAM CONTROL IS RETURNED TO MONARCH.
COMMENTS:
REVISION OF XDS 216 SYS

890307 9-SERIES MUSIC BOX
AUTHOR:E.A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A DEMONSTRATION PROGRAM WHICH ENABLES THE COMPUTER TO READ MUSIC IN CODED FORM FROM PUNCHED TAPE AND THEN TO PLAY IT.
COMMENTS:
REQUIRES SOME HARDWARE MODIFICATION.

890308 9-SERIES FORTRAN LABEL TRACE POP (160 SYS)
AUTHOR:B.E. ANDREWS
ABSTRACT:
THIS PROGRAM IS USED TO GIVE A CONDITIONAL LABEL TRACE OF A FORTRAN PROGRAM AND PACKS THE LABELS AT 20/LINE.
COMMENTS:
REVISION OF XDS 160 SYS POP.

890309 9-SERIES TIC-TAC-TOE ROUTINE
AUTHOR:A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A DEMONSTRATION PROGRAM FOR PLAYING TIC-TAC-TOE WITH THE COMPUTER.

890310 9300 FORTRAN EXTENDER LIB.-BIT HANDLING & I/O
AUTHOR: UNIVERSITY OF DELAWARE
ABSTRACT:
THIS PACKAGE OF LIBRARY ROUTINES PROVIDE ADDITIONAL CAPABILITY TO THE FORTRAN USER. THEY INCLUDE CHARACTER MANIPULATION, BIT MANIPULATION, INPUT/OUTPUT, AND TIMING.

890313 9-SERIES FAST FOURIER TRANSFORM--FOURT
AUTHOR:N. BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO N*LOG(N), MUCH FASTER THAN NON-FFT N**2.

890314 9-SERIES FAST FOURIER TRANSFORM--FOURG
AUTHOR:NORMAN BRENNER MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO N* LOG(N), MUCH FASTER THAN NON-FFT N**2.

890315 9-SERIES FAST FOURIER TRANSFORM--FOUR2
AUTHOR:NORMAN BRENNER - MIT
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY I N CORE WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO N*LOG(N), MUCH FASTER THAN NON-FFT N**2.

890316 9-SERIES FAST FOURIER TRANSFORM--FOUR1
AUTHOR:NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY IN CORE WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPOR TIONAL TO N*LOG(N), MUCH FASTER THAN NON-FFT N**2.

890317 9-SERIES FAST FOURIER TRANSFORM--FOR2D
AUTHOR:NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX ARRAY ON DESK OR DRUM WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPOR TIONAL TO N*LOG(N), MUCH FASTER THAN NON-FFT N**2.

890318 900-SERIES CIRCUIT DESIGN ANALYSIS - CIRC-AC
AUTHOR: XEROX
ABSTRACT:
A GENERAL PURPOSE PACKAGE FOR CIRCUIT DESIGN ANALSIS. CIRC-AC ALLOWS QUICK AND ACCURATE ANALYSIS OF THE AC (SMALL SIGNAL,SINUSOIDAL DRIVE) PERFORMANCE OF CIRCUITS CONTAINING MANY PASSIVE OR ACTIVE COMPONENTS. CIRC-AC HAS A STORED MODEL FOR TRANSISTORS THAT IMPLEMENTS TWO POLE CURRENT DEPENDENCE UPON FREQUENCY. CIRC-AC DOES NOMINAL SOLUTIONS, FREQUENCY ITERATION SOLUTIONS, AND AUTOMATIC OPEN LOOP SOLUTIONS. CIRC-AC HANDLES LARGE CIRCUITS (OVER 50 MODES) AND PLOTS PERFORMANCE CURVES ON THE LINE-PRINTER. CIRC-AC HAS DEPENDENT CURRENT SOURCE MODELS AND VOLTAGE SOURCE MODELS AND EASILY IMPLEMENTS Y AND H EQUIVALENT CIRCUITS.
COMMENTS:
CIRC-AC IS A FORTRAN + SYMBOL PROGRAM THAT OPERATES AS A LINKED PROGRAM. CIRC WORKS EFFECTIVELY ON A 16K MEMORY MACHINE (ASSUMED IN THE RELEASE). A SMALL VERSION CAN OPERATE ON 12K. FOUR MAG TAPES ARE IDEAL, THREE MAG TAPES ARE GOOD, AND TWO MAG TAPES COULD SUPPORT A WEAK VERSION WITH AWKWARD OR NO PLOTTING. A CARD READER AND LINE PRINTER ARE IDEAL. CIRC-AC OPERATES ON ANY 900-SERIES COMPUTER.

890320 92 XDS 92 FORTRAN IV COMPILER
AUTHOR:COMPAGNIE INTERNATIONAL POUR L'INFORMATIQUE
ABSTRACT:
THIS PROGRAM ALLOWS COMPILATION OF PROGRAMS WRITTEN IN FORTRAN IV.

890329 900-SERIES SEMILOG PLOTTING ROUTINES
AUTHOR:BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
SEMIMULT-DRAWS A LINEAR Y-AXIS AND LOGARITHMIC X-AXIS AND PLOTS UP TO 8 CURVES ON THE SAME GRAPH. SEMIAXI - DRAWS A LINEAR Y-AXIS AND A LOGARITHMIC X-AXIS. REPLOTZ - THIS SUBROUTINE PLOTS UP TO 10 CURVES ON THE AXES PREVIOUSLY DRAWN BY SEMIAXI.

890330 900-SERIES PLOT '8 VECTOR' PLOTTING PACKAGE
AUTHOR:MOTOROLA INC.
ABSTRACT:
USED FOR TAPE WRITING FOR OFF LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PACKAGE FOR 8 VECTOR PLOTS
COMMENTS:
LANGUAGE:SYMBOL ADDITIONAL INFORMATION:INCLUDES SUBROUTINES: PLOTS,WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.

890331 900-SERIES PLOT (24 VECTOR) PLOTTING PACKAGE
AUTHOR:MOTOROLA INC.
ABSTRACT:
USED FOR TAPE WRITING FOR OFF-LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PLOTTING PACKAGE FOR 24 VECTOR PLOTS.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE:SYMBOL SYSTEM:MONARCH. ADDITIONAL INFORMATION:INCLUDES SUBROUTINES PLOT, PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.

890332 900-SERIES WORD/BIT ORIENTED FUNCTION & SUBROUTINE
AUTHOR:JOHN DOLS, MOTOROLA,INC.
ABSTRACT:
WORD ORIENTED FUNCTIONS AND SUBROUTINES SUBROUTINE FORM WHICH CALLS FUNCTION MULT, FUNCTION IPART, AND FUNCTION IPARTA, ALLOWS MULTIPLE VARIABLE STORAGE IN INTEGER WORD FORMAT. THE BIT CONFIGURATION TO BE USED BY THE VARIABLES MUST BE SPECIFIED
BIT ORIENTED FUNCTIONS AND SUBROUTINES, FUNCTION AIF, SUBROUTINES EXC, FILL, MUW, AND MUT ALL ARE CALLED USING SEQUENCE: NAME (ARG1,ARG2,ARG3)
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORT/SYMB SYSTEM:MONARCH

890333 900-SERIES SUBROUTINE SLZDEQ
AUTHOR:J. HERRELL - MOTOROLA
ABSTRACT:
THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS COMPLEX EQUATIONS.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH

890334 900-SERIES NOPRINT,READ AND REREAD PACKAGE (IO)
AUTHOR:JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
THE NOPRINT, READ, AND REREAD PACKAGE ALLOWS MANIPULATION AND ING THE PREVIOUS DATA TO BE MANIPULATED. (AS IN 'DECODE'). NOPRINT INHIBITS THE NEXT PRINT STATEMENT,ALLOWING REFORMATTING (AS IN 'ENCODE'). STATEMENT,ALLOWING REFORMATTSUBROUTINE READ UTILIZES INTERLACE DURING I/O, ALLOWING COMPUTATION DURING I/O.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:56WORDS DOC. PAGES:13 DATE:11/26/69

890335 900-SERIES FORTRAN READ AND WRITE TAPE ROUTINES.
AUTHOR:JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
ALLOW FORTRAN TO READ OR WRITE RECORD BLOCKS OF ANY LENGTH IN BCD OR BINARY ON MAGNETIC TAPE.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE: DOC.PAGES:12 DATE:11/26/69

890336 900-SERIES SORT-MODIFIED SHELL MERGE-EXCHANGE
AUTHOR:JOHN DOLS - MOTOROLA
ABSTRACT:
PERFORMS DESCENDING OR ASCENDING SORTS ON BCD, INTEGER, OR REAL ARRAYS. PROGRAM TYPE:FORT SUB LANG: SYMBOL SYSTEM:MONARCH STORAGE:202 DOC.PAGES:12 DATE:11/26/69.

890337 900-SERIES PACKING AND UNPACKING OF FLOATING POINT
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
A CONVERSION MEDIA BETWEEN DOUBLE AND SINGLE PRECISION FLOATING POINT NUMBERS - CONSERVES STORAGE.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:24 DOC.PAGES:3 DATE:11/26/69

890338 900-SERIES END-OF-FILE TEST
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
TESTS FOR END-OF-FILE ON TAPE WRITTEN IN EITHER MODE AND BRANCHES TO SOME SPECIFIED STATEMENT WHEN EOF FOUND:
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN SYSTEM:MONARCH STORAGE:21 DOC.PAGES:2 DATE:11/26/69

890339 900-SERIES END-OF-PAGE TEST ROUTINE
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
TESTS LOCATION OF PRINTER TO DETERMINE IF PRINTER IS READY TO GO TO A NEW PAGE
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:9 DOC.PAGES:2 DATE:11/26/69.

890340 900-SERIES MAGNETIC TAPE POSITIONING ROUTINES
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
FORTRAN SUBROUTINES ALLOWING THE USER TO SKIP A SPECIFIED NUMBER OF FILES OR RECORDS EITHER FORWARD OR BACKWARD
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH STORAGE:126 DOC. PAGES:6 DATE:11/26/69

890341 900-SERIES COUNT FILES/RECORDS ON MAGNETIC TAPE
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
ALLOWS THE USER TO COUNT THE RECORDS IN A FILE, OR THE FILES ON A MAGNETIC TAPE.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:SYMBOL SYSTEM: STORAGE:85 DOC.PAGES:4 DATE:11/26/69

890342 900-SERIES TAPE LABEL AND POSITIONING
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
SUBROUTINES CONSTRUCT AND RECOGNIZE LEVEL 1 MONARCH LABELS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:28 WORDS DOC.PAGES:7 DATE:11/26/69

890343 900-SERIES ERROR
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
A FORTRAN SUBROUTINE WHICH ALLOWS PROGRAMMED INTERVENTION ON ANY FORTRAN II RUNTIME ERROR NORMALLY CAUSING AN ERROR NOTIFICATION.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:71WORDS DOC.PAGES:6 DATE:11/26/69

890344 900-SERIES PLOTTER SUBROUTINE BLOWUP
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
ENLARGES A PORTION OF A CURVE THAT IS DIFFICULT TO READ WHEN PLOTTED BY 'CALPLOT' (CAT NO 890350)
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES CALPLOT -890350

890345 900-SERIES HISTPRINT AND HISTPLOT
AUTHOR:MOTOROLA, INC.
ABSTRACT:
PROCESS RAN DATA INTO HISTOGRAM REPRESENTATIONS OF FREQUENCY VERSUS INTERVAL ACCORDING TO SPECIFICATION. HISTPRNT OUTPUTS ON THE LINE PRINTER WHILE HISTPLOT OUTPUTS ON THE CALCOMP PLOTTER. PLOTTING REQUIRES THREE TIMES AS MUCH COMPUTER TIME AS PRINTING.
COMMENTS:
PROGRAM TYPE:FORT.SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:12 DATE:11/26/69.
REQUIRES PLOT-CAT NO 890330 SYMBOL CALCOMP SCOOP PACKAGE SORT 890338

890346 900-SERIES PLOTTER ROUTINE FOR ON-LINE PRINTER
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
WILL PLOT ONE OR TWO CURVES ON LINE-PRINTER USING 8-1/2| X 11| PAPER. IT LABELS ALL AXES AND PRINTS A TITLE.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:9 DATE:11/26/69

890347 900-SERIES PROBABILITY FUNCTIONS - ERRF, ZGAUSSF, P
AUTHOR:JIM HERRELL - MOTOROLA INC.
ABSTRACT:
ERRF-RETURNS VALUE OF ERROR FUNCTION FOR POSITIVE VALUES OF X. PROBFUNC-RETURNS VALUE OF NORMAL PROBABILITY INTEGRAL. ZGAUSS-INVERSE OF PROBFUNC.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:76,83,96 DOC.PAGES:7 DATE:11/26/69

890348 900-SERIES REVERSE SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
SEMIREV DRAWS THE AXES FOR A SEMILOG PLOT THAT HAS THE Y-AXIS LOGARITHMIC. THE REPLOT4 PLOTS UP TO 10 CURVES ON AXES GENERATED BY SEMIREV.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:7 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES SUBROUTINES: PLOT 890330, LOGA 89035L, LOGSCALE 890353, PLUS CACCOMP ROUTINES:SCALE, CLRPLT, LINE, SYMBOL, AXIS

890349 900-SERIES STATPAK-STATISTICAL PACKAGE
AUTHOR:BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
STATPAK IS A PACKAGE DESIGNED TO ANALYZE, SUMMARIZE AND STANDARDIZE RELIABILITY DATA. PROGRAMS INCLUDED:
LINK 1 THRU LINK 10 NISTPRINT INPLOT
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN II SYSTEM:MONARCH
ADDITIONAL INFORMATION:SUBROUTINES REQUIRED: AIF(890332) COMPARE, NOPRINT(890333), HISTPRINT (890345), REREAD (890334), ALOG10, LINK, NEXTLINK, SQRT, INPLOT, ALOG, COS, SIN, IBCZ, CALPLOT, SEMILOG, AMIN, AMAX, ABS, FLOAT.

890350 900-SERIES GENERAL PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
PLOTS ONE OR TWO CURVES ON 10| X 7| AXES WITH TITLE AND AXIS LABELS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:6 DATE:11/26/69
REQUIRES CALCOMP ROUTINES: SCALE, PLOT, AXIS, SYMBOL, LINE.

890351 900-SERIES SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
WILL PLOT ONE OR TWO CURVES ON 10'X 7' AXIS, WITH X-AXIS LOGARITHMIC.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:5 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES PROGRAM CAT NO 890353 - LOGSCALE, 890352 - LOGAXIS PLUS CALCOMP PLOTTING ROUTINES.- LOGSCALE, 890352 - LOGAXIS

890352 900-SERIES LOGAXIS PLOTTING SUBROUTINE
AUTHOR:R. KOLE, MOTORALA
ABSTRACT:
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER OF 10 INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: 11/26/69 REQUIRES: PROGRAMS FROM CALCOMP PACKAGE - PLOT, TIC, WHERE,
COMMENTS:
SYMBOL, WHERE, NUMBER.
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90 , 'TICS| OFF THE INCREMENTS, AND WRITES THE POWER 10 INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
STORAGE: DOC.PAGES:4 DATE:11/26/69
REQUIRES: PROGRAMS FROM CALCOMP PACKAGE PLOT, TIC, WHERE, SYMBOL, WHERE, NUMBER

890353 900-SERIES PLOTTING SUBROUTINE LOGSCALE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
CONVERTS VALUES OF A DATA ARRAY TO LOG FORM. USED IN PLOTTING ON LOG PAPER.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69

890354 900-SERIES COMPLEX ARITHMETIC FUNCTIONS
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
FUNCTIONS USED FOR COMPLEX ARITHMETIC MAGNITUDE AND ANGLE; REAL AND IMAGINARY CONVERSIONS; MULTIPLICATION, DIVISION, ADDING AND SUBTRACTING.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE: FORTRAN II SYSTEM:MONARCH STORAGE:8 DOC.PAGES:15 DATE:11/28/69

890355 900-SERIES BCD CONVERSION OF NUMERIC DATA
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
CONVERSION OF FIXED OR FLOATING POINT NUMERIC DATA TO A4 OR A8 FORMATS AS REQUIRED.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:197 DOC.PAGES:10 DATE:11/26/69

890356 900-SERIES ERASE MAGNETIC TAPE IN FORTRAN
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
SUBROUTINES USED TO ERASE MAGNETIC TAPE TO A SPECIFIED LENGTH.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORT II SYSTEM:MONARCH STORAGE:133 DOC.PAGES:5 DATE:11/26/69

890377 900-SERIES SUBROUTINE RE20EQ
AUTHOR:J. HERRELL, MOTORALA INC.
ABSTRACT:
THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS EQUATIONS WITH REAL COEFFICIENTS AND 20 UNKNOWNS.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
STORAGE: DOC.PAGES:6 DATE:12/04/69

890378 900-SERIES SUBROUTINE DASHPLOT PLOTTER
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
DRAWS A DASHED LINE FROM LOCATION OF PEN AT THE TIME OF CALL TO THE POINT(X,Y).
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:2 DATE:11/26/69.
REQUIRES CATALOG NUMBER 890330 PLOT

890379 900-SERIES LINEAR PLOTTING PACKAGE
AUTHOR:BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
PLOTS UP TO 10 CURVES ON LINEAR, LABELED AXIS. CONSISTS OF THREE SUBROUTINES-LINEAR, REPLOT 1, LINAXI.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:11 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRE PLOTTING PACKAGE FROM CALCOMP AND CATNO 890331 OR EQUIVALENT.

890380 900-SERIES ALPHAXIS PLOTTING ROUTINE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
DRAWS AXIS OF SPECIFIED LENGTH AND ANNOTE WITH LABELS INSTEAD OF NUMBERS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: USES CATALOG NO 890331 AND CALCOMP ROUTINE SYMBOL

890384 900-SERIES FORTRAN PRECOMPILER FORT II-FORT IVH
AUTHOR:G. SAGER, HONEYWELL, INC.
ABSTRACT:
THE PRECOMPILER CONVERTS FORTRANII PROGRAMS TO BASIC FORTRAN IVH, ANNOTATES, GENERATES STATEMENTS CONVERTING FORTRAN II NEGATIVE DO LOOPS TO AN EQUIVALENT POSITIVE DO, AND FLAGS IRREGULARITIES WHICH ARE NOT CONVERTIBLE.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRANII SYSTEM:MONARCH STORAGE:7537 DOCU.PAGES:2 DATE: 10/10/70 THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES.

890524 940 940 TELETYPE PLOT ROUTINES
AUTHOR:JOHN ALSTON,XDS
ABSTRACT:
. 940 FORTRAN II PLOTTING ROUTINES (TELETYPE PLOTTING). PLOTTING IS DONE ON A 51 X 51 CHARACTER GRID.

890525 900-SERIES NODE OPTIMIZATION ROUTINE
AUTHOR:D. MACNAK, MOTOROLA, INC.
ABSTRACT:
DECREASES THE SIZE OF THE MATRIX AS GENERATED BY CIRC. THIS IS DONE RENUMBERING THE NODES AND PRINTING A CONNECTION LIST.

890526 920 REAL-TIME FORTRAN RUN-TIME DEBUG
AUTHOR:J.W. SCHWARTZENBERG, LEEDS AND NORTHRUP
ABSTRACT:
A RUN-TIME DEBUG SUBROUTINE FOR USE WITH REAL-TIME FORTRAN II.

890527 92 DDT-92 DEBUGGING ROUTINE
AUTHOR:MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
AN IN-CORE DEBUGGING PROGRAM OFFERING A COMPUTE-AND-HALT ROUTINE, DIRECT OCTAL OR SYMBOLIC I/O TO AND FROM CORE VIA TYPEWRITER, SYMBOLIC REFERENCING OF STORAGE, PAPER-TAPE SAVE OF THE LABEL TABLE AND PRODUCTION OF A SELF-FILLING, SELF-STARTING PAPER-TAPE OF THE PROGRAM IN CORE.

890528 910 CONVERSATIONAL FUNCTIONAL ASSEMBLER
AUTHOR:GERALD CAHILL, RPFTP, EDWARDS, CALIFORNIA
ABSTRACT:
THIS PROGRAM WAS WRITTEN TO ALLOW ENGINEERS AND MATHEMATICANS TO USE THE XDS 910 (OR WHAT YOU) AS THEY WOULD A MEMORY TYPE OF DESK CALCULATOR WITH THE ADDITIONAL CAPABILITY OF BUILT IN FUNCTIONS AND AN INCREASE OF PRECISION. THIS PROGRAM ALSO SERVES TO INTRODUCE ASSEMBLY LANGUAGE PROGRAMMING TO THOSE INTERESTED IN GETTING CLOSER TO THE MACHINE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II STORAGE:8K DOC.PAGES:45

890529 900-SERIES PRINTX-PRINTER SUBROUTINE
AUTHOR:D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
PRINT VARIABLE LENGTH RECORDS (120 CHARACTERS MAXIMUM OUTPUT) ON 9372 UNBUFFERED LINE PRINTERFROM VARIABLE-LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.

890530 900-SERIES PUNCHX PUNCH SUBROUTINE
AUTHOR:D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
TO PUNCH VARIABLE LENGTH (80 CHARACTERS MAXIMUM) PAPER TAPE RECORDS FROM VARIABLE LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.

890538 92 TABLCON
AUTHOR:MARC OBERLY - CAMBRIDGE ELETRON
ABSTRACT:
A PROGRAM FOR CONVERTING THE PUNCHED MEMORY MAP FROM *QUBLDR-DD** TO A PUNCHED SYMBOL TABLE ACCEPTABLE FOR READING INTO *DDT-92*. IT WILL ADDITIONALLY LIST THE MAP ON THE CONSOLE TYPEWRITER IN BOTH ALPHABETIC AND ADDRESS VALUE SEQUENCE FLAGGING ANY UNDEFINED REF ITEMS FOUND DURING READ-IN OF THE MAP.
COMMENTS:
LANGUAGE: SYMBOL STORAGE: 017341

890539 92 QUBLDR DD-OPT PUNCH FOR INPUT TABLCON
AUTHOR:MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
A MODIFIED VERSION OF QUBLDR (XDS PROGRAM NO. 720004) OFFERING: OPTIONAL PUNCHING OF THE MAP FOR INPUT TO THE PROGRAM *TABLCON*, NO LOADING OF PROGRAMS FROM CARDS, THE AUTOMATIC INITIALIZATION OF SCRATCHPAD FOR ITSELF AFTER FILLING OR USER CALL.
COMMENTS:
LANGUAGE: SYMBOL STORAGE:00844

890540 930 MONARCH SYSTEM UPDATE
AUTHOR: SALLY BRECKENRIDGE UNIV. OF MICHIGAN
ABSTRACT:
UPDATE (850032) AND BOOTSTRAP (890031) COMPRISE THE SYSTEM UPDATE PROGRAM TO CREATE NEW MONARCH SYSTEM TAPES AND TO UPDATE EXISTING SYSTEM TAPES. UPDATED FROM A PROGRAM DEVELOPED BY BARRY MACRAE.

890541 930 A GENERAL MAG TAPE ROUTINE
AUTHOR:SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
ABSTRACT:
A GENERAL EASY-TO-USE MAGNETIC TAPE ROUTINE FOR THE 930. DEVELOPED FROM A PROGRAM BY DONALD WYCHE.

890542 930 EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE
AUTHOR:SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
ABSTRACT:
PROVIDES A METHOD FOR UPDATING SOURCE PROGRAMS ON MAGNETIC TAPE. UPDATED FROM A PROGRAM DEVELOPED BY DONALD WYCHE AND BARRY MACRAE.

890548 930 REGEN-A BINARY TO SYMBOLIC TRANSLATOR
AUTHOR:J.W. LAYLAND, JET PROPULSION LABORATORY
ABSTRACT:
REGEN IS A PROGRAM FOR TRANSLATING BETWEEN THE XDS 900 SERIES UNIVERSAL BINARY LANGUAGE AND A SYMBOLIC EQUIVALANT. THE PROGRAM OPERATES UNDER A BASIC MONARCH SYSTEM WITH ONE SCRATCH TAPE AND USES THE SYSTEM INPUT/OUTPUT ASSIGNMENTS. BREAKPOINTS 3 AND 4 SELECT THE PRODUCTION OF EITHER A LIST OUTPUT OR AN ASSEMBLABLE SYMBOLIC DECK OUTPUT. EXTERNAL REFERENCE AND DEFINITION ITEMS IN THE BINARY TEXT PROVIDE NAMES AND MAKE THE REGENERATED TEXT AS CLOSE AS POSSIBLE TO THE ORIGINAL SOURCE.
COMMENTS:
ADDITIONAL INFORMATION:NEEDS 1 SCRATCH TAPE.

890586 900-SERIES CROSS REFERENCE FOR FORTRAN PROGRAMS
AUTHOR:G. SAGER, HONEYWELL, INC.
ABSTRACT:
CROSS REFERENCE-LABEL, SUBROUTINE, VARIABLE, BY LINE NUMBER PRINTS FORTRAN PROGRAM, AS IT IS INPUT FROM THE CARD READER, ON THE LINE PRINTER. PRINTS TABLES FOR REFERENCE FOLLOWING LISTING.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:1 DATE:06/01/70. ADDITIONAL INFORMATION:FUNCTIONS INCL. ICOMP,NXTANC. SUBROUTINES INCL. VSCAN, CREF, READCD, READTP, PRINTCD, INPUT, OUTPUT, LFIELD, LSCAN, CRUNCH, SCAN

890663 920 SHORT RELOCATING LOADER FOR 920/930
AUTHOR:A. MOFFET, CALTECH
ABSTRACT:
TO LOAD ABSOLUTE OR RELOCATABLE OBJECT PAPER TAPES IN STANDARD BINARY FORMAT. THIS LOADER REPLACES 000019 AND IS SHORTENED TO USE LOCATIONS 000 THROUGH 077 ONLY. THUS IT DOES NOT DESTROY THE POP LINKAGE TABLE AS DOES 000019. THE|STANDARD CONSTANTS| ARE OMITTED.
COMMENTS:
LANGUAGE:SYMBOL DOCU.PAGES:1

890664 920 SATFIX-SATELLITE ANGLE & RANGE COMPUTE
AUTHOR:R.W. GREAVES, RAYTHEON SERVICE CO.
ABSTRACT:
PROGRAM TO COMPUTE ANGLE AND RANGE OF A SATELLITE TO DIRECT A TRACKING SENSOR FOR ACQUISITION PURPOSES. REQUIRES 80/81 DEVICE, FORTRAN RUNTIME AND KEYBOARD PRINTER. COMMUNICATION WITH PROGRAN IS WRITTEN TO BE SELF-EXPLANATORY. PROGRAM CAN BE MODIFIED TO WRITE INFORMATION COMPUTED TO AN INPUT FILE TO BE READ INTO THE SENSOR DRIVE PROGRAM
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II STORAGE:948 DOCU.PAGES:2

890668 900-SERIES MUSIC - FOR 910/920
AUTHOR:C. KENDALL, XDS
ABSTRACT:
PAPER TAPE (PLUS AN FM RECEIVER) COMBINE WITH THE 910/920 TO PRODUCE A MEDLEY OF OVER 25 SONGS. ALSO ALLOWS YOU TO ADD TO REPERTOIRE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE: MACHINE SYSTEM: S/A STORAGE:2000

890669 900-SERIES 300 ELECTRONIC CIRCUIT ANALYSIS (ECAP)
AUTHOR:J. HERRELL, MOTOROLA
ABSTRACT:
ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETWORKS FROM A DESCRIPTION OF THE CONNECTIONS OF THE NETWORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A SELECTION OF THE TYPE OF ANALYSIS DESIRED. A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OR OUTPUT DESIRED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:7116 DOCU.PAGES:4
COMMENTS: 900 SERIES MONARCH WITH 12K CORE.

890772 910 910 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUPUT FORMAT HAS BEEN CLEANED UP AN POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890773 920 920 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890774 925 925 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEARED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890775 930 930 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890776 9-SERIES FORTRAN FLOWCHARTER
AUTHOR:P. CLAAR, MCDONALD DOUGLAS
ABSTRACT:
THIS PROGRAM CREATES FLOWCHARTS OF FORTRAN PROGRAMS ON THE LINE PRINTER. A MAG TAPE UNIT MUST BE AVAILABLE FOR A SCRATCH TAPE DURING PROGRAM EXECUTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

890842 9-SERIES SYSGEN 2 - B00 MONARCH
AUTHOR:L. BRENTON, XEROX CORPORATION
ABSTRACT:
THIS MODIFICATION OF SYSGEN 2 PROVIDES THE CAPABILITY OF PUTTING FORTRAN SUBROUTINES INTO THE FORTRAN LIBRARY (FORTLIB).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS CHANGE IS BASED ON THE B00 VERSION OF RAD MONARCH. THE -74 CARD DECK CONTAINS BOTH THE SYSGEN 1 AND SYSGEN 2 BINARY DECKS AND LABEL CARDS.

890882 9300 SAM9300-SELECTIVE AUTO MONITOR PROGRAM
AUTHOR:G. KOSSUTH, DRAPER LABORATORY
ABSTRACT:
SELECTED REGIONS OF CORE CAN BE TRACED AND OCTAL CORE DUMPS TAKEN PROVIDING DEBUG INFORMATION TO THE METASYMBOL USER. TRACE WILL LIST EITHER OCTAL, FIXED POINT FRACTIONAL OR FLOATING POINT FORMAT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

890884 9300 CARD READER/PUNCH DIAGNOSTIC PROGRAM
AUTHOR:C. OGREN, C.S. DRAPER LABORATORY
ABSTRACT:
THIS PROGRAM PUNCHES A BINARY CARD DECK IN A KNOWN PATTERN (FOUR POSSIBILITIES) WHICH CAN BE READ BACK AND CHEKED FOR ERRORS. THE ERRORS ON THE READ PASS ARE OUTPUT WHEN THEY OCCUR, INDICATING THE CARD NUMBER, ROW, COLUMN, AND ERROR TYPE (DROPPED OR PICKED). ADDITIONALLY, THE ERRORS ARE SUMMARIZED AT THE END OF THE READ PASS INDICATING THE NUMBER OF ERRORS IN EACH ROW AND EACH COLUMN. THE READER AND PUNCH MAY BE OPERATED IN EITHER A CONTINUOUS OR START/STOP MODE, WITH A 250 MS DELAY BETWEEN I/O OPERATIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER B00 TAPE MONITOR. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

890885 9300 MAGNETIC TAPE TEST PROGRAM
AUTHOR:C. OGREN & E. HARTNETT, C.S. DRAPER LABORATORY
ABSTRACT:
THE PROGRAM PROVIDES FASTER MULTI-TESTING OF MAGNETIC TAPES WITH A MORE CONVENIENT USER-COMPUTER INTERFACE. THE TAPE TEST RESULTS ARE OUTPUT ON THE LINE-PRINTER. THE INFORMATION PROVIDED IS THE NAME OF THE TAPE, THE DATE TESTED, THE LENGTH OF THE TAPE IN FEET, THE NUMBER OF ERRORS, AND A LIST OF THE POSITIONS OF THE ERRORS IN FEET. THE PROGRAM HAS THE FACILITY TO TEST UP TO SEVEN TAPES WITH A MINIMUM OF USER ATTENTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER B00 TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

890886 9300 16K DGC NOVA SIMULATOR
AUTHOR:J. GARMIL, A. VIRET, G. KOSSUTH
ABSTRACT:
A BIT BY BIT DIGITAL SIMULATION OF A DATA GENERAL NOVA LINE COMPUTER WITH EXTENSIVE DEBUG CAPABILITY HAS BEEN DEVELOPED FOR PROGRAM CHECKOUT. FEATURES INCLUDE ADDRESS STOP, EFFECTIVE ADDRESS STOP, TRACE AND MEMORY DUMP WITH 16K SIMULATED MEMORY AND TTI, TTO, PTR, PTP, PTP, RTC, LPT, DEVICES SIMULATED. THE CPU RUNS APPROXIMATELY 100 TIMES SLOWER THAN REAL-TIME.
COMMENTS:
THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN AND METASYMBOL.

890896 900-SERIES 9-SERIES MAG TAPE DIAGNOSTICS
AUTHOR:T. CHAPMAN, XEROX CORPORATION
ABSTRACT:
A TAPE WHICH CONTAINS ALL EXISTING 9-SERIES DIAGNSOTICS WITH AN EASY-TO-USE INDEXING AND LOADING SCHEME. FEATURES INCLUDE, 'W' AND 'Y' CHANNEL UNIVERSAL LOADERS, LISTABLE CATALOG NUMBERS ON LINE PRINTER OR TELETYPE, LISTABLE OPERATING INSTRUCTIONS FOR ALL DIAGNOSTICS, AND MANY C.E. ORIENTED SERVICE ROUTINES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
OPERATES UNDER MINIMUM CONFIGURATION OF 8K MEMORY FOR 900/9300 SYSTEMS, AND 4K MEMORY FOR 92 SYSTEMS WITH ONE MAG TAPE UNIT AND TELETYPE. THIS UPDATE IS FOR PROGRAM CORRECTIONS AND ADDITIONS. TAPE VERSION IS NOW A01.

890963 9-SERIES MAGTP
AUTHOR:A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
MAGTP IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS. IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

890964 9-SERIES MTAPE
AUTHOR:A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
MTAPE IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS. IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

890965 9-SERIES SYMBOL
AUTHOR:A. MOFFET-CAL.INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
SYMBOL IS A MODIFICATION THAT IMPROVES THE SYMBOL ASSEMBLER IN MANY WAYS. OPTIONS ADDED INCLUDE A SECOND PASS FROM SI DEVICE, LIST-ONLY ERROR LINES, AND MULTIPLE ASSEMBLIES WITHOUT GOING BACK TO MONARCH. IMPROVEMENTS INCLUDE EDITING CARRIAGE RETURNS, TABS, AND BACKSPACES OUT OF BCD AND TEXT STATEMENTS, SEQUENCE NUMBERS ON CARDS FOR BO, AND FIVE INCHES OF BLANK TAPE ON PAPER TAPE BO.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

850639 9-SERIES PAPER TAPE PHOTO-READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTO READER.
COMMENTS:
SIZE 340 DECIMAL. CONFIGURATION: ANY 920 OR 910 WITH TYPEWRITER

850640 9-SERIES SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 267 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER.

850655 9-SERIES PHOTO READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE PHOTO READER AND TO TEST ITS OPERATION IN CONTINUOUS AS WELL AS STOP-START MODES OF OPERATION. THE OPERATOR MAY VARY THE TIME CONSTANTS CONTROLLING THE STOP AND START TO TEST EXTREME CONDITIONS.
COMMENTS:
SIZE 146 DECIMAL. CONFIGURATION: ANY 910,920, OR 930 WITH A PHOTO READER

850656 9-SERIES 900 SERIES CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151 OR 9152 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 535 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD PUNCH.

850657 9-SERIES CARD PUNCH TEST PROGRAM PACKAGE -9158
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9158 CARD PUNCH SYSTEM.
COMMENTS:
SIZE 172 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 920/930 OR 910/925 WITH A TYPEWRITER, AND XDS MODEL 9151 OR 9152 CARD READER ON CHANNEL A (W). INTERLACE IS NOT USED.

850658 9-SERIES CARD PUNCH TEST PROGRAM -9157
AUTHOR: XEROX
ABSTRACT:
SIZE 223 DECIMAL. CONFIGURATION: XDS 920 OR XDS 910 WITH MODEL 9158 CARD PUNCH SYSTEM. FOR THE VERIFY
COMMENTS:
TEST, AN XDS MODEL 9151 CARD READER AND A TYPEWRITER ARE REQUIRED.

850659 9-SERIES CARD PUNCH TEST PROG/MOD.9157(INTERLACE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 608 DECIMAL. CONFIGURATION: ANY 910, 920, 925, OR 930 WITH MODEL 9157 CARD PUNCH COUPLER SYSTEM.

850660 9-SERIES STANDARD CARD READER TEST DECK PROGRAM
AUTHOR: XEROX
ABSTRACT:
DOCUMENT STANDARD TEST CARD DECK FOR CARD READER TEST PROGRAM.
COMMENTS:
CONFIGURATION: ANY 900/9300 SERIES COMPUTER.

850661 9-SERIES 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 230 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM. (WITHOUT INTERLACE AND EXTENDED MODE)

850670 9-SERIES EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER
AUTHOR: XEROX
ABSTRACT:
THE EXAMINER 910/920 SYSTEM IS COMPLETE DIAGNOSTIC PACKAGE DESIGNED TO GIVE THE OPERATOR THE ABILITY TO EXERCISE AND/OR DIAGNOSE THE MEMORY, THE COMPUTER LOGIC, THE BUFFER AND SOME ASSOCIATED PERIPHERAL EQUIPMENT. THE ENTIRE SYSTEM IS ON ONE TP TAPE FOR EASE OF HANDLING.
COMMENTS:
ALL OF THE ABOVE-MENTIONED TESTS, EXCEPT THE MEMORY TESTS, ARE INCLUDED IN ONE PROGRAM, (MODEL NO. 850670). THE MEMORY PROGRAM MUST BE SEPARATE DUE TO THE NATURE OF THE PROCEDURE. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM.

850671 9-SERIES INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
COMMENTS:
THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL NUMBER 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.

850672 9-SERIES MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES MEMORY IN THE MOST STRENUOUS MANNER POSSIBLE, MONITORS THE MEMORY FOR ERRORS WHILE EXPOSED TO SUCH CONDITIONS, AND AIDS THE OPERATOR IN DIAGNOSING MEMORY FAILURES.
COMMENTS:
MEMORY DIAGNOSTIC IS AVAILABLE ON A SEPARATE TAPE, AND IS ALSO AVAILABLE AS PART OF EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.

850673 9-SERIES 15KC MAG TAPE TEST-INTERUPT AND INTRLACE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS IN TESTING THE INPUT/OUTPUT CAPABILITIES OF THE 9140 OR 9145 MAGNETIC TAPE UNIT USING INTERRUPT AND/OR INTERLACE.
COMMENTS:
SIZE: 640 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH ONE 9140 OR 9145 MAGNETIC TAPE UNIT.

850674 9-SERIES MAGNETIC TAPE SYSTEM EXERCISER-15KC
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE A TAPE UNIT BY WRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETWEEN 64 AND 4092 CHARACTERS IN LENGTH AND READING THIS FILE BACK CHECKING FOR ERRORS. COUNTERS SHOWING THE NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE END OF A PASS.
COMMENTS:
SIZE: 1024 DECIMAL. CONFIGURATION: EITHER 910 OR 920 WITH ONE TAPE CONNECTED TO THE W BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.

850675 9-SERIES 15KC MAGNETIC TAPE TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 15KC MAGNETIC TAPE UNITS.
COMMENTS:
SIZE: 592 DECIMAL. CONFIGURATION: ALL XDS 920 SYSTEMS AND ANY 910 WITH A TYPEWRITER WHICH HAVE ONE OR MORE MAGNETIC TAPE UNITS CONNECTED TO THE W BUFFER.

850676 9-SERIES MULTI-MAGNETIC TAPE SYSTEM EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO SIXTEEN TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE 1155 DECIMAL. CONFIGURATION: ALL 920, 925 AND 930 SYSTEMS. OR ANY 910 SYSTEMS WITH A TYPEWRITER, WHICH HAVE ONE TO SIXTEEN TAPE UNITS ATTACHED TO THE W AND / OR Y BUFFERS. NO INTERLACE IS REQUIRED AND THE TAPES MAY BE OF ANY DENSITY AND SPEED WITHIN THE LIMITATIONS OF THE BUFFER TO WHICH THEY ARE ATTACHED.

850679 9-SERIES MAGNETIC TP EXERCISER,2 TP SYTM-15KC
AUTHOR: XEROX
ABSTRACT:
TO ALTERNATELY EXERCISE TWO TAPE UNITS (NO. 0 AND NO. 4) BY WRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETWEEN 64 AND 4092 CHARACTERS IN LENGTH ON ONE TAPE, READING THIS FILE BACK CHECKING FOR ERRORS AND THEN DOING THE SAME ON THE SECOND TAPE. COUNTERS SHOWING THE NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE
COMMENTS:
END OF A PASS. SIZE: 1024 DECIMAL. CONFIGURATION:EITHER 910 OR 920 WITH ONE OR TWO TAPES CONNECTED TO W BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.

850681 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND SUBSEQUENT TESTING OF TAPE UNITS.
COMMENTS:
SIZE:593 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE Y BUFFER. THE BUFFER MUST BE INTERLACED.

850682 900-SERIES 42KC MAG TAPE SYS EXERCISER, Y BUF
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS, OR ANY 910 WITH TYPEWRITER, WHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE Y BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE Y BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.

850691 9-SERIES BUFFERED LINE PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 PRINTER 1 (W-BUFFER) ON A 910 OR 920. INTERLACE IS NOT REQUIRED.
COMMENTS:
SOURCE LANGUAGE:SYMBOL 8. SIZE: 1181 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER, USING 8 CHANNEL FORMAT TAPE FOR SKIPPING.

850692 9-SERIES OFF-LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS FOR TESTING THE OFF-LINE OPERATION OF THE PRINTER.
COMMENTS:
SIZE: 406 DECIMAL. CONFIGURATION: ANY 910, 920, OR 930 WITH A TYPEWRITER, PRINTER WITH OFF-LINE FEATURE, AND TAPE UNIT OR CARD READER ATTACHED TO THE W BUFFER.

850693 9-SERIES BUFFERED PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1290 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A BUFFERED LINE PRINTER CONNECTED TO THE W OR Y BUFFER, AND WITH A TYPEWRITER CONNECTED TO THE W BUFFER.

850694 9-SERIES UNBUFFERED LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERSN AND MONITORING THE PRINTER'S RESPONSE TO PROGRAM GENERATED COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 1510 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A MODEL 9372 LINE PRINTER CONNECTED TO CHANNELS W OR Y AND A TYPEWRITER CONNECTED TO CHANNEL W.

850695 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM,W BUFFER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 42KC MAGNETIC TAPE UNITS.
COMMENTS:
SIZE 587 DECIMAL. ANY 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE W BUFFER. THE BUFFER MUST BE INTERLACED.

850696 9-SERIES 42KC MAGNETIC TAPE EXERCISER, W BUFFER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS (OR 910 WITH TYPEWRITER) WHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE W BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE W BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.

850699 9-SERIES CALCOMP PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
COMMENTS:
SIZE 265 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH XDS MODEL 9175-76 INCREMENTAL PLOTTER.

850702 9-SERIES P + S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE P AND S REGISTERS AND THE DATA FLOW BETWEEN THE P,S AND C REGISTERS, BY ACCESSING EVERY CELL IN MEMORY NOT USED BY THE PROGRAM WITH A BRM OR A BRR WHILE TESTING FOR CORRECT RESPONSE AFTER THE ACCESS. THE IA FLIP-FLOP WHICH IS USED TO INCREMENT THE P AND C REGISTERS DURING BRM AND BRR IS ALSO RIGOROUSLY EXERCISED.
COMMENTS:
THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM, MODEL NUMBER 850870.

850703 9-SERIES 910/920/925 DIAGNOSTIC CONTROL PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS DIAGNOSTIC CONTROL PROGRAM IS TO PROVIDE THE CONTROL INTERFACE, VIA THE TEST LANGUAGE INTERPRETER, FOR SUBROUTINES THAT DRIVE A PERIPHERAL DEVICE AND TO CONTROL SUBROUTINE INTERACTIVE FUNCTIONS. BY DESCRIBING THE STRUCTURE OF THE TEST LANGUAGE THAT THE OPERATOR WILL USE IN ACTIVATING THE DCP, THIS DOCUMENT PROVIDES THE OPERATOR WITH A PERIPHERALINDEPENDENT ON-LINE MEANS OF DIRECTING THE SEQUENCE OF EVENTS PERFORMED UPON THE PERIPHERAL DEVICE. THIS PROGRAM IS ALSO A SOURCE REFERENCE FOR DESCRIBING THE SUBROUTINES WHICH MUST BE ASSEMBLED WITH THE DCP, IF IT IS TO COMPRISE A FREE-STANDING TEST PROGRAM.

850711 9-SERIES PRIORITY INTERRUPT TEST
AUTHOR: XEROX
ABSTRACT:
FOR USE IN CONJUNCTION WITH A SPECIAL TEST CARD TO FACILITATE TESTING OF PRIORITY INTERRUPTS DURING PRODUCTION OR FIELD MAINTENANCE. OPTIONAL MODES OF TESTING ARE PROVIDED SO THAT THE PROGRAM MAY BE USED AS A THROUGH, AUTOMATIC GO - NO - GO TEST OR AS A SEMIAUTOMATIC DIAGNOSTIC AID.
COMMENTS:
SIZE 500 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER.

850712 9-SERIES UNBUFFERED LINE PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9170 LINE PRINTER.

850716 9-SERIES 9161 DRUM MEMORY TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9161-N DRUM MEMORY SYSTEM.
COMMENTS:
SIZE 1817 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND AN XDS MODEL 9161-N DRUM MEMORY SYSTEM AND AN INTERLACED W-BUFFER. THE ''N'' SIGNIFIES THE SIZE OF THE DRUM.

850717 9-SERIES 1622 CARD READ/PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 1622 CARD READ/PUNCH.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE 474 DECIMAL. CONFIGURATION: ANY XDS 910 OR XDS 920 COMPUTER WITH TYPEWRITER AND AN IBM 1622 CARD READER AND PUNCH.

850720 9-SERIES POWER FAIL-SAFE INTERRUPT TESTER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A PROGRAM TO TEST THE POWER FAIL-SAFE INTERRUPT SYSTEM.
COMMENTS:
CONFIGURATION: ANY 910, 920, OR 930.

850721 9-SERIES ARM/DISARM FEATURE CHECKOUT
AUTHOR: XEROX
ABSTRACT:
TO CHECK OUT, THOROUGHLY, THE OPERATION OF THE ARM-DISARM FEATURE.
COMMENTS:
SIZE 1652 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER. 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE.

850722 9-SERIES FRANKLIN PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE FRANKLIN PRINTER FOR PROPER OPERATION.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 867 DECIMAL. CONFIGURATION: ANY 910 OR 920 COMPUTER WITH 1,2, OR 3 FRANKLIN PRINTERS AND PAPER TAPE I/O.

850724 9-SERIES 9158 CATHODE-RAY TUBE DISPLAY TEST PROG.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
COMMENTS:
SIZE 4095 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING ONE OF THE FOLLOWING CHANNEL CONFIGURATION: XDS 910 OR 920: 24-BIT Y BUFFER OR PARALLEL INPUT-PARALLEL OUTPUT (PIN-POP) CONNECTOR. XDS 925 OR 930: THCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR. A PAPER TAPE READER OR CARD READER ON CHANNEL W IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ON CHANNEL W IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.

850725 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RAD'S.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 910 OR 920 COMPUTER WITH A TYPEWRITER (NO. 1) ATTACHED TO THE W-BUFFER AND ONE OR MORE (9366) RAD'S ATTACHED TO A 24 BIT Y BUFFER WITH A 9321 INTERLACE.

850726 9-SERIES MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO VERIFY THE CAPABILITIES OF THE READER AND PUNCH MECHANISM AND ELECTRONICS. IT IS SUGGESTED THAT THE APPROPRIATE 7-LEVEL PAPER TAPE TEST PROGRAM BE USED TO EXERCISE THE SPOOLER MECHANISM AND THE START-STOP CHARACTERISTICS OF THE PINCH ROLLER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 881 DECIMAL. CONFIGURATION: ANY XDS 910,920, 925 OR 930 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, A TYPEWRITER, AND A MODEL 933 7- OR 8-LEVEL PAPER TAPE READER AND PUNCH, CONNECTED AS UNIT NUMBER 1 AND 2 TO A W OR Y BUFFER. INTERLACE IS NOT USED.

850727 9-SERIES 9185 CATHODE RAY TUBE DISPLAY UNIT/S REI
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKOUT AND ADJUSTMENT OF THE OSCILLOSCOPE COUPLER, DISPLAY UNIT, AND REFRESH MEMORY.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 910 COMPUTER WITH A MODEL 9185 CRT + STE-10 REFRESH MEMORY ATTACHED TO THE Y BUFFER. THE PROGRAM REQUIRES INTERLACE FEATURE TO BE PRESENT. A PAPER TAPE READER OR CARD READER ATTACHED TO THE W BUFFER IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ATTACHED TO THE W BUFFER IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.

850735 9-SERIES PRIORITY INTERRUPT SOURCE TEST
AUTHOR: XEROX
ABSTRACT:
TO INDICATE WHICH PRIORITY INTERRUPTS ARE BEING RECEIVED ONLY INTERRUPTS 200-237 ARE CONSIDERED.
COMMENTS:
SIZE 2048 DECIMAL. COMFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND EXTRA INTERRUPTS.

850739 9-SERIES ANALOG COMPARISON TEST
AUTHOR: XEROX
ABSTRACT:
INPUTS TEN SETS OF ANALOG DATA AT A 400 CYCLE RATE AND COMPARES LAST NINE DATA SETS WITH THE INITIAL DATA SET.
COMMENTS:
SIZE:260 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER, AN AD10-9 ANALOG TO DIGITAL CONVERTER, MU31-4 20-CHANNEL MULTIPLEXER, AND 9128 PRIORITY INTERRUPT CONTROL.

850741 930 PATCH, PROGRAMMED ANALOG TOTAL CHECK
AUTHOR: XEROX
ABSTRACT:
THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS.THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. CONFIGURATION:900 SERIES REAL-TIME MONITOR

850743 910 JPL HSDL TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

THE PROGRAM TESTS THE TRANSFER OF DATA TO AND FROM THE HSDL UNIT VIA THE COMPUTER'S POT AND PIN LINES. DATA WORDS ARE SENT OUT AND COMPARED WITH THE WORDS RETURNED. IF THE TWO ARE NOT IDENTICAL, AN ERROR MESSAGE IS PRINTED. THE PROGRAM IS SELF-LOADING.

COMMENTS:

OPTIONS ARE PROVIDED TO SEND 24 BIT OR 12 BIT PSEUDO-RANDOM NUMBERS OR TO ALLOW OPERATOR INPUT OF DATA WORDS.

850744 920 JPL HSDL COUPLER EXERCISER

AUTHOR:XDS DATA SYSTEMS

ABSTRACT:

EXERCISES THE JPL ASDL COUPLER IN TEST MODE BY REPEATEDLY TRANSMITTING, RECEIVING, AND COMPARING A SYNCH-HEADER WORD AND A DATA WORD. BOTH WORDS CAN BE VARIED BY THE OPERATOR. COMPARISON, INTERRUPT, AND SKS ERRORS ARE REPORTED ON THE TYPEWRITER.

COMMENTS:

CONFIGURATION; ASDL, PAPER TAPE READER, TELETYPE AND 910 OR 920 COMPUTER.

850755 925 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER

AUTHOR: XEROX

ABSTRACT:

PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H.(1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EMOS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.

COMMENTS:

MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95489 9TRACK MAGNETIC TAPE SYSTEMS

850901 9-SERIES 910/925 STANDARD ANALOG TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:

TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.

COMMENTS:

SOURCE LANGUAGE: META-SYMBOL. SIZE 12288. CONFIGURATION: ANY 910/925 WITH ASSOCIATED ANALOG I/O EQUIPMENT, TYPEWRITER AND PAPER TAPES I/O.

851048 9-SERIES 930 EXAMINER DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT:

SEE MANUAL NO. 900097: 920/930 EXAMINER DIAGNOSTIC TECHNICAL MANUAL VOL. I AND II.

COMMENTS:

THIS PROGRAM COVERS CATALOG NO.S 851049,851050 AND 851051.

851049 9-SERIES 930 EXAMINER MEMORY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE MEMORY WITH A CHECKERBOARD MEMORY WORD PATTERN; TO MONITOR MEMORY FOR ERRORS AND AID IN DIAGNOSING MEMORY FAILURES.

COMMENTS:

SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.

851050 9-SERIES 930 EXAMINER INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:

TO AID IN DIAGNOSING COMPUTER FAULTS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.

COMMENTS:

SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930 THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.

851051 9-SERIES 930 EXAMINER P AND S REGISTER TESTER

AUTHOR: XEROX

ABSTRACT:

TO EXERCISE THE P AND S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE ''MARK'' OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECK WHETHER THE P AND S REGISTERS FUNCTIONED PROPERLY.

COMMENTS:

SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.

851052 9-SERIES 930 BIG MEMORY ADDRESSING TEST
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC VERIFIES THE ABILITY OF A 930 (20K OR LARGER) TO UNIQUELY ACCESS EVERY LOCATION IN CORE VIA BOTH THE 'MEMORY EXTENSION REGISTERS' AND THE '91903 MEMORY ADDRESS EXTENSION' OPTION.

851054 9-SERIES MTE-1 MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 6120 DECIMAL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER TELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND AN MTE-1 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

851055 9-SERIES MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAG TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE ANDOUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFERTELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

851056 9-SERIES MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

851057 9-SERIES MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 369 DECIMAL. CONFIGURATION: ANY XDS 930 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLED) POWER FAIL-SAFE.

851058 9-SERIES 930 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 1-2 MEMORY BANKS TOTALING UP TO 32K (ALTHOUGH THE CFE WILL BE TESTED WITH ONLY THE FIRST 16K), CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER NO. ON CHANNEL W.)

851060 9-SERIES REAL TIME CLOCK TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 600 DECIMAL CONFIGURATION: ANY XDS 925 OR 930 COMPUTER WITH A PAPER TAPE READER, A TYPEWRITER ATTACHED TO THE W BUFFER, AND A 91880 REAL TIME CLOCK.

851062 930 9165 DISC EXERCISER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE, SEEK, AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADAJACENT TRACK BEFORE ATTEMPTING TO RECOVER THE CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
COMMENTS:
THE PROGRAM WILL OPERATE ON A 930 WITH A 9164-01 SINGLE ACCESS DISC FILE CONTROLLER AND A 9165 DISC FILE STORAGE ON THE W-CHANNEL.

851063 930 930 RAD DIAGNOSTIC FOR 9387 RAD

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPEWRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LEAD TIME.

COMMENTS:
THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL. TWO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SET UP BEFORE THE RAD IS DRIVEN. THIS IS NECESSARY TO CHECK THE ''EARLY WORD'' INTERRPUT OPTION. ALL ERROR MESSAGES AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPEWRITER. READ DATA IS CHECKED AGAINST A KNOWN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER CATALOG NUMBER 850648.

851100 9-SERIES 925 EXAMINER DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT:
SEE MANUAL NO. 900649 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

COMMENTS:
THIS PROGRAM COVERS CATALOG NO.'S 851101,851102,851103.

851101 9-SERIES 925 MEMORY DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:
THE PROGRAM EXERCISES MEMORY WITH THE CHECKERBOARD MEMORY WORD PATTERN; IT MONITORS THE MEMORY FOR ERRORS AND AIDS IN DIAGNOSING MEMORY FAILURES.

COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: META-SYMBOL. SIZE: 208 DECIMAL. CONFIGURATION: ANY 925.

851102 9-SERIES 925 INSTRUCTION DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:
THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.

COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 2271 DECIMAL. CONFIGURATION: ANY 925.

851103 9-SERIES 925 P-AND-S REGISTER TESTER

AUTHOR: XEROX

ABSTRACT:
THIS TEST PROGRAM EXERCISES THE P-AND-S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE ''MARK'' OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECKS WHETHER THE P-AND-S REGISTER FUNCTIONED PROPERLY.

COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 164 DECIMAL. CONFIGURATION: ANY 925.

851104 9-SERIES 925 CFE-1 DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:
DISCOVER AND INDICATE CFE-1 FAILURES.

COMMENTS:
SOURCE LANGUAGE: 910 META-SYMBOL. SIZE: 1309 DECIMAL. CONFIGURATION: 925 WITH UP TO 16K OF CORE STORAGE, A CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER =1 ON CHANNEL W.)

851107 9-SERIES EXTENDED MODE I/O TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH A TYPEWRITER ATTACHED TO THE W CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE W CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.

851110 9-SERIES 925/930 CARD READER TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151, OR 9153 CARD READER.

COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL. CONFIGURATION: ANY 925/930 WITH TYPEWRITER ON CHANNEL A AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A TMCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READING.

851111 9-SERIES 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 314 DECIMAL. CONFIGURATION: ANY 925/930 WITH INTERLACE, WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM. MAY BE USED ON CHANNELS W,Y,C,D,E,F,G,H.

851113 9-SERIES EXTENDED MODE MULTI-MAGNETIC TAPE EXER.
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THROUGH H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES AND ALL SKS'S AND EOM'S ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 1903 DECIMAL. CONFIGURATION: ANY 925/930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL 1 HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).

851114 9-SERIES MAGNETIC TAPE TEST PROGRAM FOR 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPES UNITS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 925/930 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED TO THE W BUFFER AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.

851115 9-SERIES DATA MULTIPLEX CHANNEL TEST 925/930
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL, COMPUTER CONFIGURATION ANY 925 OR 930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL 1 HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED, A TYPEWRITER AND PHOTO READER OR BINARY CARDREADER ARE REQUIRED ON CHANNEL A (ZERO).

851117 9-SERIES DSC-II DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851118 9-SERIES DACC DIAGNOSTIC TEST WITH JX35 TESTER925
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851119 9-SERIES TMCC DIAGNOSTIC TEST FOR 925/930
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TIME MULTIPLEXED COMMUNICATION CHANNEL TEST INDEPENDENT OF A PERIPHERAL DEVICE.

851122 9-SERIES 9174/9179 PRINTER DIAGNOSTIC 925/930
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.

851123 9-SERIES 9379 PRINTER DIAGNOSTIC 925/930
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.

851124 9-SERIES 9372 UNBUFFERED LINE PRINTER TEST 925/93
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE PRINTER'S RESPONSE TO PROGRAM-GENERATED COMMANDS.

851127 9-SERIES DISC FILE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE OF THE 9184 MOVABLE ARM DISC.

851128 9-SERIES DISC FILE DIAGNOSTIC (DFD) 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE CAPABILITY TO DIAGNOSE THE OPERATION OF THE MODEL 9287 RAD.

851129 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF R.A.D.'S.

851130 9-SERIES TEST PROGRAM DISC FILE MODEL 9387-A 925/
AUTHOR: XEROX
ABSTRACT:
TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE UNIT MODEL 9387-A.

851134 925 9 TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM

851135 900-SERIES SEMI AUTO TYPEWRITER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.THE OPERATOR MAY SELECT THE W BUFFER OR THE Y BUFFER AND TYPEWRITER NO. 1 OR TYPEWRITER NO.2.
COMMENTS:
THE PROGRAM REQUIRES 368 DECIMAL LOCATIONS, IS SELF-LOADING AND RELOCATABLE. THE PROGRAM WILL OPERATE WITH EITHER THE SELECTRIC OR TELETYPE KEYBOARD/PRINTER DEVICES.

851136 930 DEE-60 SIMULATOR SYSTEM DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE AND TEST ALL DEE-60 SIMULATOR SYSTEM INTERFACE HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-60 HARDWARE.

851137 910 JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND DESCRIBE MALFUNCTIONS IN THE JPL APS-100 SYSTEM.
COMMENTS:
STAND ALONE ABSOLUTELY LOADED. CODED IN 910 METASYMBOL. STORAGE REQUIRED THROUGH 2620.

851152 92 INTERRUPT-INTERLACE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE INTERRUPT AND INTERLACE OPERATIONS AS POSSIBLE WITH PAPER TAPE I/O OPERATIONS. GIVEN IN I/O CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL WITH 92 PROCEDURES DECK. SIZE: 993 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH PAPER TAPE READER AND/OR PAPER TAPE PUNCH ATTACHED TO THE I/O CHANNEL. THE INTERRUPT AND/OR INTERLACE FEATURES MAY EXIST IN ANY COMBINATION WITH RESPECT TO THE I/O CHANNELS.

851153 92 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THE XDS 92 EXAMINER SYSTEM IS A COMPLETE MAIN FRAME DIAGNOSTIC PACKAGE, WHICH VERIFIES SUCCESSFUL OPERATION OR ISOLATES ERRORS AND DIAGNOSES THE PROBABLE CAUSE OF ERRORS FRO ALL HARDWARE TESTED BY THE SYSTEM.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. THIS PROGRAM COVERS CATALOG NO. S: 851154 THRU 851156. SEE MANUAL 900878. 92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

851154 92 DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)
AUTHOR: XEROX
ABSTRACT:
TO TEST ALL OPERATIONS WITHIN THE 92 EXCEPT THOSE RELATED TO I/O. THESE INCLUDE ALL NON-I/O INSTRUCTIONS, REGISTER TRANSFERS, ADDRESSING MODES, AND ADDER FUNCTIONS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 2000 DECIMAL. CONFIGURATION: MINIMUM OF 2K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

851155 92 2-4K MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 4000 DECIMAL. CONFIGURATION: 2K OR 4K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

851156 92 8-16-32K MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATIONS, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 8000 DECIMAL. CONFIGURATION: 9, 16, 32K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

851157 92 92 TYPEWRITER TEST
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE TYPEWRITER UNDER OPERATOR CONTROL

851166 92 PAPER TAPE READER TEST
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE PAPER TAPE READER AND TEST ITS OPERATION.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL/92. SIZE: 2148 DECIMAL. CONFIGURATION: ANY 92 COMPUTER.

851168 92 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9150, 91510, 9152 OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 904 DECIMAL. CONFIGURATION: ANY XDS 92 WITH TYPEWRITER AND XDS MODEL 9150, 91510, 9152 OR 9153 CARD READER IN UNIT NUMBER 1 POSITION. INTERRUPTS AND/OR INTERLACE ARE NOT REQUIRED FOR OPERATION OR TEST PROGRAM.

851170 92 MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1412 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH 4K MEMORY, A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE ATTACHED TO THE I/O CHANNEL. INTERLACE AND I/O CHANNEL INTERRUPTS ARE NOTE USED IN THE PROGRAM.

851171 92 MULTI-MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE TAPE UNITS BY WRITING A FILE CONSISTING OF RANDOM LENGTH RECORDS OF RANDOM NUMBERS AND READING THE RAPE BACK CHECKING FOR ERRORS. COUNTERS ARE MAINTAINED BY THE PROGRAM, TALLYING THE NUMBER OF PASSES MADE AND THE NUMBER OF VARIOUS TYPES OF ERRORS. THE PROGRAM WILL EXERCISE UP TO 8 TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 2174 DECIMAL. CONFIGURATION: A 92 COMPUTER WITH ONE OR MORE MAGNETIC TAPES AND A TYPEWRITER.

851173 92 DSC-1 DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE: 2702 DECIYMBOL WITH XDS 92 92, I/O TESTER, DSC-1 AND TYPEWRITER.

851174 92 DSC-II DIAGNOSTIC TEST FOR XDS 92

AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 2358 DECIMAL. CONFIGURATION: ANY XDS 92 WITH I/O TESTER, DSC-II AND TYPEWRITER.

851175 92 INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92

AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A BPO/BPI TEST, AND/OR AN INTERRUPT CHASSIS TEST, BY USING THE I/O TESTER INSTEAD OF PERIPHERAL DEVICES.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 1905 DECIMAL. CONFIGURATION: ANY XDS 92 WITH I/O TESTER, TYPEWRITER, AND INTERRUPT CHASSIS (NOT NECESSARY IF ONLY BPO/BPI IS TO BE TESTED).

851179 92 MOD. 9372 UNBUF.LINE PRINTER DIAGNOSTIC

AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM HAS BEEN DESIGNED PRIMARILY TO TEST THE BASIC FUNCTIONS OF THE 9372 PRINTER UTILIZING A LIMITED AMOUNT OF CORE. TO ACHIEVE THESE ENDS SOME LIMITATIONS HAVE BEEN PUT ON KEYBOARD ENTRIES (MUST BE OF COMPLETE NATURE), AND TITLE PRINTOUTS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1720 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.

851180 92 BUFFERED LINE PRT. DIAGNOSTIC 9379/9171

AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM WILL PROVIDE A COMPREHENSIVE TEST FOR THE BUFFERED LINE PRINTER WITHIN A LIMITED AMOUNT OR CORE.
COMMENTS:
SIZE: 1571 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9379/9171 BUFFERED LINE PRINTER.

851181 92 MTE-2 MAGNETIC TAPE EXERCISER

AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUT PUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL (92 PROC DECK, 850677). SIZE 1600 DECIMAL. CONFIGURATION: XDS 92 COMPUTER AND A 8-BIT I/O CHANNEL, A TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-2 MAGNETIC TAPE TRANSPORT, UNIT 0, CONNECTED TO THE W BUFFER.

851182 92 SCOPE TEST PROGRAM

AUTHOR: XEROX
ABSTRACT:
TO AID IN SCOPE MAINTENANCE AND VERIFICATION OF SCOPE OPERATION. THE PROGRAM INCLUDES TESTS FOR ALL OPTIONAL SCOPE FEATURES.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 WITH PAPER TAPE, TYPEWRITER, 24BIT PIN/POT EXTENDER AND MODEL 9185 OSCILLOSCOPE DISPLAY SYSTEM.

851184 92 92 RAD ANALYTIC DIAGNOSTIC

AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPRENENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 4037 DECIMAL. CONFIGURATION: AN XDS MODEL 92 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED AND ONE OR MORE RAD UNITS USING INTERLACE AND 12 BIT EXTENDER.

851185 92 TEST PROGRAM FOR DISC FILE 9387-A

AUTHOR: XEROX
ABSTRACT:
TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE MODEL 9387-A.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 COMPUTER, 8K MEMORY, 12 BIT CHARACTER OPTION ON I/O CHANNEL. DISC FILE SYSTEM MODEL 9387-A ATTACHED TO I/O CHANNEL (UNIT 26). DISC FILE UNIT MUST BE UNIT 0.

851186 92 POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY PROPER OPERATION OF THE POWER FAIL-SAFE OPTION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 983 DECIMAL. CONFIGURATION: ANY XDS 92 WITH POWER FAIL-SAFE AND PAPER TAPE READER.

851187 92 REAL TIME CLOCK TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY PROPER OPERATION OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1684 DECIMAL. CONFIGURATION: ANY XDS 92 WITH REAL TIME CLOCK AND PAPER TAPE READER.

851580 930 INTER-COMPUTER COUPLER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 930 COMPUTERS.
COMMENTS:
THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO BE TRANSFERRED.

851584 9-SERIES ACCEPTANCE PROG. FOR DATA COMMUNICATION
AUTHOR: XEROX
ABSTRACT:
PROVIDES A MEANS OF TESTING THE OPERATION OF XDS DATA COMMUNICATIONS EQUIPMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 900 SERIES COMPUTER WITH DATA COMMUNICATIONS EQUIPMENT.

851585 9-SERIES COMMUNICATION BUFFER CHECKOUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH COMMUNICATIONS BUFFER, 4K MEMORY AND ONE OR MORE TELETYPE UNITS OPERATING IN 5 LEVEL OR 8 LEVEL CODE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL

851615 930 DIGITAL I/O TEST FOR GD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE DIGITAL I/O SUBSYSTEM OF THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER, 12 'POT' CHANNELS, 12 'PIN' CHANNELS, 128 'SKS' CHANNELS, 220 'EOM' CHANNELS HEWLETT PACKARD 101A OSCILLATOR, SPECIAL XDS 24-BIT TEST REGISTER. THE HP 101A OSCILLATOR IS CONNECTED THROUGH THE SPECIAL SYSTEMS LOGIC TO INTERRUPTS 204-210 (OCTAL).

851616 930 ANALOG/NSC-II TEST FOR GD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE OPERATION OF THE ANALOG/DSC-II SUBSYSTEM WITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER WITH DSC-II'S CONNECTED TO THE W AND X CHANNELS OF THE DMC, A 128 CHANNEL MULTIPLEXER AND A 15 BIT ADC. THE DSC-II'S ACCESS THE UPPER 8K OF THE 16K MEMORY. INTERRUPTS 200, 203 AND 211 (OCTAL) ARE USED BY THE MULTIPLEXER/DSC-II'S.

851617 930 ANALOG ACCURACY TEST FOR GD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE ACCURACY OF THE EIGHTDAC CHANNELS AND THE 128 MULTIPLEXER CHANNELS WITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER, KEYBOARD/PRINTER ON THE TMCC W CHANNEL, DSC II ON THE DMC X CHANNEL.

851618 910 ANALOG TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES OPEN END AND CLOSED LOOP TESTS FOR ANALOG TO DIGITAL INPUTS. STATISTICAL TABULATIONS ARE MADE ON RESULTS OF MASS READINGS.

851618 CONTINUED ON FOLLOWING PAGE

851618 ANALOG TEST FOR G.D./CONVAIR (CONTINUED)
COMMENTS:
HARDWARE REQUIREMENTS: XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR. 8K OF MEMORY, TTY, AND ANALOG FRONT END.

851619 910 SAMPLE AND HOLD TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES AN OPEN END TEST FOR SAMPLE AND HOLD ANALOG TO DIGITAL CHANNELS. VOLTAGES ARE INPUT THROUGH THESE CHANNELS TO XDS 910 COMPUTER. SAMPLE AND HOLD VALUES OF A SINGLE INPUT ARE COMPARED FOR ACCURACY.
COMMENTS:
HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR GENERL DYNAMICS/CONVAIR. 5 CHANNELS OF SAMPLE AND HOLD ADC'S.

851620 910 SPECIAL ACCEPTANCE TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES A DEMONSTRATION FOR THE VARIOUS FEATURES OF THE GENERAL DYNAMICS/CONVAIR 910 COMPUTER SYSTEM.
COMMENTS:
HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR G.D.
DEMONSTRATES D/A, A/D, SYSTEM POT/PIN, SYSTEM EOM'S, SYSTEM SKS'S, AND SPECIAL REAL-TIME CLOCK.

851623 9-SERIES 900 PAPER TAPE PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A TEST WITH VARIABLE START-STOP DELAY WHICH SIMULATES CONDITIONS ENCOUNTERED WHEN PUNCHING OBJECT PROGRAMS UNDER FORTRAN OR META-SYMBOL.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 192 DECIMAL LOCATIONS (0130 THRU 0435). THE PROGRAM CAN BE USED IN ANY 900 SERIES COMPUTER WITH PAPER TAPE READER AND PUNCH ON THE W-BUFFER. THE PROGRAM PUNCHES OUT 64 DECIMAL CHARACTER GROUPS ARRANGED IN BLOCKS WITHOUT GAP. EACH GROUP CONSISTS OF AN ASCENDING BINARY SEQUENCE ARRANGED FROM 00 TO 77 OCTAL.

860007 9300 7/8 LEVEL READER/PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
VERIFIES THE CAPABILITIES OF THE READER AND PUNCH MECHANISMS AND ELECTRONICS. IT WILL OPERATE BOTH READER AND PUNCH AT THEIR MAXIMUM SPEED. INTERLACE IS NOT USED.
COMMENTS:
REQUIRES AN XDS 9300 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, KEYBOARD PRINTER,AND A MODEL 9333 7-OR 8-LEVEL PAPER TAPE READER OR PUNCH CONNECTED AS UNIT NUMBER 1 OR 2 TO CHANNEL A.

860661 9300 EXAMINER DIAGNOSTIC (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO.900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
SEE MANUAL NO.900624: FOR THE COMPUTER CONFIGURATION.

860662 9300 VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC
AUTHOR: XEROX
COMMENTS:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

860663 9300 MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO.900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860661,SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.

860664 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

860665 9300 P AND S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 860661,SEE THIS CATALOG NO. FOR THE COMPUTER CONFIGURATION.

860666 9300 SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 267 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER.

860667 9300 INTERRUPT EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS EXERCISER WILL EXECUTE THE 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC (DOC), CATALOG NO.860664, IN AN INTERRUPT ENVIRONMENT. A SPECIAL PURPOSE DIAGNOSTIC MAY BE SUBSTITUTED FOR DOC.
COMMENTS:
SOURCE LANGUAGE: SYMBOL.SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300 WITH INTERLACE, BUFFERED PRINTER 1, CHANNEL A, AND AT LEAST 8K MEMORY.

860698 9300 BIG MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATION OF MEMORY,OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE:20000 DECIMAL WORDS. COMPUTER CONFIGURATION: 20K CORE MINIMUM AND PAPER TAPE OR CARD READER.

860718 9300 EXTENDED MODE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH A TYPEWRITER ATTACHED TO THE A CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE A CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.

860719 9300 PHOTO-READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTOREADER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 455 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE PHOTOREADER.

860727 9300 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151,9152 OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A AND XDS MODEL 9151,9152 OR 9153 CARD READER ATTACHED TO A TMCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READER.

860729 9300 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 808 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 COMPUTER WITH MODEL 9157 CARD PUNCH COUPLER SYSTEM ATTACHED TO ANY CHANNEL.

860730 9300 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH. SOURCE LANGUAGE: META-SYMBOL. SIZE: 317 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM MAY BE USED ON CHANNELS A-H.

860738 9300 EXTENDED MODE MULTI MAG TAPE EXERCISOR

AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THRU H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1976 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 SYSTEM WITH 1 TO 64 TAPE UNITS ATTACHED TO INTERLACED CHANNELS A THRU H. THE TYPEWRITER ON CHANNEL A(H) IS USED FOR CONTROL.

860739 9300 MAGNETIC TAPE TEST PROGRAM

AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE: 1959 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER ATTACHED TO CHANNEL A AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.

860744 9300 DATA MULTIPLEX CHANNEL TEST

AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS.
COMMENTS:
ANY 9300 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL HAVING A PAPER TAPE PUNCH AND A PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).

860745 9300 DACC DIAGNOSTIC TEST FOR 9300

AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1977 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, DACC, JX35 TESTER.

860746 9300 TMCC DIAGNOSTIC TEST FOR 9300

AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TMCC DIAGNOS TIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1878 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, TMCC, JX35 TESTER.

860747 9300 DSC-I DIAGNOSTIC TEST

AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1858 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A TYPEWRITER AND JX35 TESTER.

860748 9300 DSC-II DIAGNOSTIC TEST

AUTHOR: XEROX
ABSTRACT:
TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1463 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH TYPEWRITER AND JX35 TESTER.

860753 9300 PRINTER DIAGNOSTIC

AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTERS ON A XDS 9300. THE PROGRAM OPERATES IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES . INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.
COMMENTS:
SIZE: 868 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN ATTACHED 9174 OR 9179 BUFFERED LINE PRINTER(S).

860754 9300 9379/9171 BUFFERED LINE PRINTER DIAG
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1275 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A BUFFERED LINE PRINT ER AND A TYPEWRITER CONNECTED TO CHANNEL A.

860755 9300 MODEL 9372 UNBUFFERED LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER CONNECTED TO CHANNEL A.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1560 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE,AND A TYPEWRITE R CONNECTED TO CHANNEL A.

860757 9300 PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 261 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9175-76 INCREMENTAL PLOTTER ON ANY TMCC.

860758 9300 MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 297 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLER)/POWER FAIL-SAFE.

860759 9300 SPECIAL PRIORITY INTERRUPT TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CHECK FOR PROPER OPERATION OF OPTIONAL INTERRUPTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 284 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A, OPTIONAL INTERRUPTS, AND SPECIAL HARDWARE TO ALLOW INTERNAL INITIATION OF OPTIONAL INTERRUPTS.

860760 9300 SPECIAL TYPEWRITER TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO TEST THE I/O TYPEWRITER FOR PROPER INPUT-OUTPUT. THE ROUTINE PERFORMS THIS FUNCTION WITHOUT USING INTERLACE OR INTERRUPTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 90 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN I/O TYPEWRITER.

860761 9300 SPECIAL PAPER TAPE PUNCH-READ TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS 92340 PAPER TAPE UNIT
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 190 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A AND AN XDS 92340 PAPER TAPE UNIT (MODIFIED FOR SEVEN UNIT).

860762 9300 CATHODE RAYTUBE DISPLAY SYSTEM TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES , SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
COMMENTS:
SIZE: 4095 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING THE FOLLOWING CHANNEL CONFIGURATION. XDS 9300: TMCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR.

860763 9300 DES-1 DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST DES-1 CONSOLE AND EIGHT D/A CONVERTERS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 516 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

860764 9300 MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 12643 DECIMAL WORDS. COMPUTER CONFIGURATION:XDS 9300 WITH A 24-BIT EXTENDED A BUFFER TELETYPE TYPEWRITER CONNECTED TO THE A BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO EITHER CHANNEL A,B,C OR D.

860765 9300 9267 DISC FILE DIAGNOSTIC-(DFD)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF 9267 RAD DISC.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3510 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH INTERLACE, EXTENDED MODE,TYPEWRITER (NUMBER 1,A-CHANNEL), AND ONE OR MORE MODEL 9267 RAD,S.

860766 9300 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1325 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 1-4 MEMORY BANKS TOTALING UP TO 32K, CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION A TYPEWRITER 1 ON CHANNEL A IS HIGHLY ADVISED.

860767 9300 RAD APOCALYPTIC DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3707 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER (NO. 1) ATTACHED TO CHANNEL A AND ONE OR MORE RADS ATTACHED TO ANY CHANNEL USING INTERLACE.

860768 9300 DPD TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3700 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH XDS MODEL 9164-01/ 9164-02 DISC FILE CONTROLLER ATTACHED TO 1 OR 2 I/O CHANNELS A-H. THE TYPEWRITER IS USED FOR PROGRAM CONTROL AND MUST BE CONNECTED TO CHANNEL A.

860769 9300 INTERRUPT ARM-DISARM FEATURE TEST PROGRA
AUTHOR: XEROX
ABSTRACT:
TO CHECK OUT, THOROUGHLY, THE OPERATION OF ARM-DISARM FEATURE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH TYPEWRITER,1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE. ALSO REQUIRED TO PERFORM THE TEST IS SPECIAL MODULE CARD = 109745. WHEN THIS CARD,S INPUT IS CONNECTED TO COMPUTER SIGNAL RTI, ANY PIN COMMAND SHOULD SET ALL ARMED INTERRUPTS.

860770 9300 CECIS SPECIAL ACCEPTANCE TEST
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE PERFORMANCE OF SPECIAL PARTS OF THE SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 776 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR CECIS SECT SYSTEM.

860771 9300 REAL TIME CLOCK TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 367 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A PAPER TAPE READER OR CARD READER, A TYPEWRITER ATTACHED TO CHANNEL A, AND A 91880 REAL TIME CLOCK.

860773 9300 SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THESE PROGRAMS IS TO DEMONSTRATE THE REAL TIME SIMULATION SYSTEM CONFORMANCE TO REQUIREMENTS OF NAA PROCUREMENT SPECIFICATION MC 470-0080
COMMENTS:
SIZE: 2926 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR NAA REAL TIME SIMULATION SYSTEM.

860776 9300 STANDARD ANALOG TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
COMMENTS:
SIZE: 12288 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH ASSOCIATED ANALOG I/O EQUIPMENT.

860777 9300 BOEING RANDOM NUM. GEN. TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE RANDOM NUMBER GENERATOR AND MEMORY INCREMENT HARDWARE IN SIX WAYS. 1.) SINGLE-WORD RANDOM NUMBER MODE. 2) MEMORY INCREMENT MODE 3) RANDOM NUMBER BLOCK MODE 4) TIMING OF RANDOM NUMBER BLOCK MODE 5) TIMING OF MEMORY INCREMENT MODE 6) REGISTER TEST SOURCE LANGUAGE: META-SYMBOL. SIZE: 6098 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, DSC-II, INTERLACED A CHANNEL, PAPER TAPE READER, TYPEWRITER, SPECIAL HARDWARE.

860778 9300 BOEING FAULT TREE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE BOEING FAULT TREE SYSTEM EOM'S AND SKS LINES. THERE ARE FOUR MAJOR PARTS TO THE PROGRAM: 1) CHECK ALL EOM FLIP FLOPS (FF,S) EXCEPT THE 7 TRIGGER FF,S USING ONE EOM CONNECTOR FOR OUTPUT. 2) CHECK ALL SKS INPUTS (EXCEPT THE INDIRECT SENSORS) USING ONE EOM CONNECTOR FOR OUTPUT. 3) CHECK THE 7 TRIGGER FF. 4) CHECK THE 20 INDIRECT SENSORS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 2322 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, PAPER TAPE READER, INTERLACED A CHANNEL, TYPEWRITER, 4K MEMORY, SPECIAL HARDWARE.

860783 9300 ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE THE CAPABILITIES OF THE UCLA BRAIN RESEARCH SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAG TAPE, PAPER TAPE, TYPEWRITER, PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.

860787 9300 9-TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE 9-TRACK MAGNETIC TAPE UNIT AND ITS COUPLER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 12625 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AT LEAST 8,192 WORDS OF MEMORY, PAPER TAPE OR CARD READER AND TYPEWRITER ON CHANNEL A, AND 9-TRACK MAGNETIC TAPE UNIT (MODEL NO.92469) WITH COUPLER (MODEL NO.92489) CONNECTED VIA A TMCC OR DACC WITH INTERLACE.

860788 9300 DOUGLAS MOL SYS. CHECK OUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC,SAM,CIU, ETC).
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 850 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, 32K MEMORY.

860789 9300 GENERAL ELECTRIC MOL SYS. CHECK OUT PROG
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC,SAM,CIV,ET C).
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 849 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 32K MEMORY.

860790 9300 ACCEPT TEST PROG.FOR NASA HOUSTON LEM

AUTHOR: XEROX
ABSTRACT:
TO CHECKOUT ANALOG I/O EQUIPMENT FOR NASA-MSC SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 6143 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MIC, MAM, TWO MAG TAPES, CARD READER, PAPER TAPE I/O, TYPEWRITER, LINE PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.

860792 9300 9379 PRINTER DIAGNOSTIC

AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 9300 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.
COMMENTS:
SIZE: 768 DECIMAL. CONFIGURATION: ANY XDS 9300 COMPUTER WITH AN ATTACHED 9379 BUFFERED LINE PRINTER(S).

860793 9300 9TRACK MAGNETIC TAPE TEST PROGRAM

AUTHOR: XEROX
ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM

860794 9300 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER

AUTHOR: XEROX
ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EOMS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95489 9TRACK MAGNETIC TAPE SYSTEMS

860795 9300 NASA EDWARDS INTERFACE TEST

AUTHOR: XEROX
ABSTRACT:
INTERFACE TEST PROGRAM FOR THE NASA EDWARDS XDS 9300 HYBRID SYSTEM.
COMMENTS:
THE MINIMUM COMPUTER CONFIGURATION REQUIRED FOR OPERATION OF THE NASA EDWARDS INTERFACE TEST PROGRAM MUST INCLUDE THE FOLLOWING: 16K XDS 9300,MIC,MAM,CARDREADER, TYPEWRITER, LINE PRINTER, JBE-34/35 DATA CHANNELS, AND ASSOCIATED ANALOG I/O EQUIPMENT. THIS PROGRAM INCLUDES TWELVE MODES FOR ANALOG INTERFACE TESTING. THESE MODES ARE MODIFICATIONS TO CATALOG #699004B, XDS 9300 STANDARD ANALOG TEST PROGRAM. NINE OTHER MODES ARE INCLUDED TO TEST OTHER I/O FUNCTIONS.

860797 9300 NORTH AMERICAN HYBRID INTERFACE TEST

AUTHOR: XEROX
ABSTRACT:
THIS IS A DIAGNOSTIC PROGRAM TO CALIBRATE AND TEST THE ANALOG AND DIGITAL INTERFACE EQUIPMENT FOR THE NAA HYBRID SYSTEM
COMMENTS:
MINIMUM CONFIGURATION IS 24K 9300, CARD READER, TELETYPE, AND SPECIAL SYSTEM INTERFACE HARDWARE(AS DESIGNED FOR THE NAA HYBRID SYSTEM

860800 9300 INTER-COMPUTER COUPLER TEST

AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 9300 COMPUTERS.
COMMENTS:
THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO BE TRANSFERRED.

861076 9300 USNPGS HYBRID INTERFACE TEST

AUTHOR: XEROX
ABSTRACT:
THE USNPGS HYBRID INTERFACE TEST PROGRAM IS DESIGNED TO CALIBRATE AND TEST THE HYBRID INTERFACE EQUIPMENT.
COMMENTS:
THE USNPGS HYBRID SYSTEM CONSISTS OF AN XDS 9300 DIGITAL COMPUTER INTERFACED WITH A CI 5000 ANALOG COMPUTER. THE INTERFACE TEST PROGRAM INCLUDES CLOSED LOOP STATISTICAL COMPUTATIONS FOR TESTING A-D,D-A CONVERTERS, TESTS FOR INTERRUPT PROCESSING,MODE CONTROL,LOGIC LINE CONTROL,DVM READOUT,POT SETTING, AND REAL-TIME CLOCK CONTROL. THE INTERFACE TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS WHICH CAN BE FILLED INTO MEMORY BY USING THE ONE OR TWO CARD BINARY LOADER.

861077 9300 USNPOS DISPLAY TEST PROGRAM

AUTHOR: XEROX

ABSTRACT:
THE USNPOS DISPLAY TEST PROGRAM PROVIDES FOR OPERATOR SELECTION OF TEST PATTERNS AND DISPLAY FUNCTIONS FOR TESTING, ADJUSTING, AND DEMONSTRATING THE TWO TASKER DISPLAYS AND DISPLAY INTERFACE HARDWARE.

COMMENTS:
THE DISPLAY TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS. IT CAN BE LOADED BY USE OF THE STANDARD FILL PROCEDURE WITH THE ONE OR TWO CARD BINARY PROGRAM LOADER. THE DISPLAY TEST PROGRAM PROVIDES FOR TRANSMISSION OF 17 DIFFERENT TEST PATTERNS, AN END OF TRANSMISSION INTERRUPT TESTS CHARACTER AND VECTOR RASTER GENERATION, LIGHT PEN USAGE, SCOPE KEYBOARD INPUT, AND FUNCTION PANEL INPUT.

870000 940 EXAMINER DIAGNOSTIC SYSTEM (COVER)

AUTHOR: XEROX

ABSTRACT:
THE 940 COMPUTER DIAGNOSTIC SYSTEM USES THE SAME TECHNIQUES AS THE 930 COMPUTER EXAMINER WHEREVER POSSIBLE, AND IT ENABLES AN OPERATOR TO EXERCISE AND DIAGNOSE THAT PORTION OF CORE MEMORY NOT REACHED BY THE 930 EXAMINER AND ALL FEATURES OF THE 940 MAIN-FRAME LOGIC NOT COMMON TO THE 930.

COMMENTS:
THIS PROGRAM INCLUDES: 860001, 860002, 860003, 860004, MEMORY ACCESS, MEMORY DIAGNOSTIC, INSTRUCTION DIAGNOSTIC AND INTERRUPT DIAGNOSTIC PROGRAMS. SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SIZE: 16384 DECIMAL.

870001 940 MEMORY ACCESS DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO DETECT AND ISOLATE PROBLEMS IN THE MEMORY RELABELING LOGIC.

COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870002 940 MEMORY DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO EXERCISE MEMORY WITH A CHECKERBOARD WORD PATTERN. MONITOR MEMORY FOR ERRORS, AND AID IN DIAGNOSING MEMORY FAILURE.

COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870003 940 INSTRUCTION DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO AID IN DETERMINING AND ISOLATING FAULTS IN THE 940 INSTRUCTION LOGIC.

COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870004 940 INTERRUPT DIAGNOSTIC PROGRAM

AUTHOR: XEROX

ABSTRACT:
TO DETECT AND ISOLATE PROBLEMS IN THE 940 INTERRUPT LOGIC.

COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634. XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

870006 940 MEMORY ADDRESS TEST

AUTHOR: XEROX

ABSTRACT:
THE PROGRAM PERFORMS MEMORY ACCESSES AND CHECKS FROM THE CPU TO THE MEMORY OF A 940 COMPUTER. THE ACCESSES ARE MADE THROUGH RELABELING BYTES R0 - R7 AND M6 - M7. IN ADDITION LOCATIONS 4000 - 17777 OCTAL ARE ACCESSED DIRECTLY. READ ONLY AND OUT OF BOUNDS TRAPS ARE CHECKED THROUGH ALL RELABELING BYTES.

COMMENTS:
THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH 48K OR 64K MEMORY WORDS AND EITHER PAPER TAPE OR CARD READER FACILITIES. THE PROGRAM REQUIRES THAT THE 940 INSTRUCTION DIAGNOSTIC OPERATES CORRECTLY. CONTROL OF THE PROGRAM IS THROUGH THE CONTROL CONSOLE.

870007 940 940 DISC EXCERCISER DIAGNOSTIC

AUTHOR: XEROX

ABSTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE SEEK AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER. TWO CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.

COMMENTS:
THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH A CARD READER OR PAPER TAPE READER.

870008 940 940 RAD DIAGNOSTIC EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPWRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LOAD TIME. THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL.
COMMENTS:
THO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SETUP BEFORE THE RAD IS DRIVEN. THIS NECESSARY TO CHECK THE ''EARLY WORD'' INTERRUPT OPTION. ALL ERROR MESSAGE AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPWRITER READ DATA IS CHECKED AGAINST A KNOWN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER, CATALOG NUMBER 850648.

870029 940 OLDS3.0 CONTROL MONITOR
AUTHOR: XEROX
ABSTRACT:
THIS IS THE CONTROL MONITOR NECESSARY TO CORRECTLY RUN THE 940 OLDS SYSTEM UNITS.

870030 940 UNIT 0 CPU TESTS 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS PRELIMINARY FUNCTION OF THE 940 TO ASSURE MINIMUM OPERATIONAL EFFICIENCY.
COMMENTS:
UNIT 0 MUST BE RUN WITH THE OLDS CONTROL MONITOR

870031 940 UNIT 1 CPU EXERCISER 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS ALL CPU FUNCTIONS INCLUDING ARITHMETIC, LOGICAL, AND INTERRUPTS.
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS CONTROL MONITOR

870032 940 UNIT 2 FLOATING POINT TESTS 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNITS TESTS THE OPERATION OF THE 94400 FLOATING POINT ARITHMETIC UNIT
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870033 940 UNIT3 MEMORY TESTS FOR THE 2ND 16K 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A MEMORY DIAGNOSTIC FOR ADDRESSES 40000 TO 77777
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870034 940 UNIT 4 MEMORY TEST FOR THE 3RD 16K 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT IS A MEMORY DIAGNOSTIC FOR ADDRESSES 100000 TO 13777
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS3.0 CONTROL MONITOR

870035 940 UNIT 5 MEMORY TEST FOR THE 4TH 16K 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC FOR ADDRESSES 140000 TO 17777
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870036 940 UNIT 12 E CHANNEL RAD TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A TEST FOR THE 9367 RAD ADDRESS 26,66 ON E CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870037 940 UNIT 15 W CHANNEL RAD TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9317 RAD ADDRESS 26,66 ON W CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870038 940 UNIT 21 W CHANNEL DISC TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9184 DISC ON W CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870039 940 UNIT 23 CTE 10/11 COM GEAR TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNITS RUNS A DIAGNOSTIC ON THE 64 CHANNELS OF THE CTE 10/11 ASYNCHRONOUS TELEPHONE INTERFACE EQUIPTMENT
COMMENTS:
THIS UNIT MU BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

870040 940 UNIT 18 E CHANNEL DISC
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS THE 940 DISC FILE CONNECTED TO CHANNEL E. IT IS SIMILAR TO UNIT 21 FOR THE 9184 DISC FILE
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR

870041 940 UNIT 19 F CHANNEL DISC
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS THE DISC CONNECTED TO CHANNEL E IT IS SIMILAR TO UNIT 21 FOR THE 9184 DISC
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR

870042 940 940 OLDS DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC ANALYZES AND EXERCISES THE 940 TIME-SHARING SYSTEM.
COMMENTS:
THIS SYSTEM TAPE INCLUDES THE PROGRAMS LISTED UNDER CATALOG NUMBERS: 870029 THRU 870040