

B3850000 000 AB 900-SERIES MONARCH COMMON SOFTWARE PACKAGE P MM
 010 AUTHOR XEROX
 020 850000-11800 DESCRIPTION PRINTED
 030 850000-35800 * SOURCE MAG TAPE, 7 CHANNELS
 040 900566 XDS MONARCH REFERENCE MANUAL
 050 900616 XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS
 060 ABSTRACT ROUTINES THAT PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT
 070 REQUIRING OPERATOR INTERVENTION.
 080 COMMENTS THIS PROGRAM COVERS CATALOG NUMBERS 850001 THRU 850011, 850013 THRU 850023, 850031 THRU 850033, 850669,
 090 851012, 851290 THRU 851298

B3850001 000 AB 9-SERIES MONARCH TAPE LOADER (LOAD) P MM
 010 AUTHOR XEROX
 020 850001-11800 850000-11 DESCRIPTION PRINTED
 030 850001-35800 850000-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH TAPE SYSTEM.
 050 COMMENTS PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL

B3850004 000 AB 9-SERIES MONARCH RAD LOADER (LOAD) P MM
 010 AUTHOR XEROX
 020 850004-11800 850000-11 DESCRIPTION PRINTED
 030 850004-35800 850000-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH RAD SYSTEM.
 050 COMMENTS PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

B3850022 000 AA 9-SERIES PURGE FOR RAD MONARCH P MM
 010 AUTHOR XEROX DATA SYSTEMS
 020 850022-11A00 DESCRIPTION PRINTED
 030 850022-25A00 850036-85 RELLOCATABLE BINARY MAG TAPE, 7 CHANNELS
 040 850022-25A00 850038-85 RELLOCATABLE BINARY MAG TAPE, 7 CHANNELS
 050 850022-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
 060 ABSTRACT THIS ROUTINE IS ON RAD MONARCH SYSGEN TAPE. IT IS USED TO REMOVE USER-ADDED LABELS FROM THE FILE
 070 DIRECTORY, AT USERS DISCRETION.

B3850023 000 AA 900-SERIES BOOTSTRAP GENERATOR FOR RAD MONARCH P VM
 010 AUTHOR XEROX
 020 850023-11A00 DESCRIPTION PRINTED
 030 850023-34A00 850000-35 SOURCE CARDS
 040 850023-51A00 850000-51 LISTING PRINTED
 050 ABSTRACT PUNCHES A BOOTSTRAP FOR RAD MONARCH (WITH CURRENT POINTERS) ON PAPER TAPE OR CARDS. USE OUTPUT TO RELOAD
 060 SYSTEM.

B3850035 000 AB 910 910/925 TAPE MONARCH SYSTEM P MM
 010 AUTHOR XEROX
 020 850035-11B00 DESCRIPTION PRINTED
 030 850035-74B00 TESTS AND DEMO DECKS
 040 850035-75B00 TESTS AND DEMO DECKS - 7 TR MAG TAPE
 050 850035-85B00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 060 900566 XDS MONARCH REFERENCE MANUAL
 070 900616 XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS
 080 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
 090 OPERATOR INTERVENTION, INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOC-
 100 IATED LIBRARIES.
 110 COMMENTS ANY XDS 910/925 WITH AT LEAST 8K WORDS OF CORE STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES.

B3850036 000 AB 9-SERIES 925 RAD MONARCH SYSTEM P VM
 010 AUTHOR XEROX
 020 850036-11B00 DESCRIPTION PRINTED
 030 850036-74B00 850035-74 TEST AND DEMO DECKS
 040 850036-85B00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 050 ABSTRACT A SYSTEM TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT
 060 REQUIRING OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND
 070 R.T. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.
 080 COMMENTS ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE MAG TAPE, AND A 9367 DISC FILE

B3850037 000 AB 9-SERIES 920/930 TAPE MONARCH SYSTEM P VM
 010 AUTHOR XEROX
 020 850037-11B00 DESCRIPTION PRINTED
 030 850037-85B00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 040 850037-74B00 850035-74 TEST AND DEMO DECKS
 050 900566 XDS MONARCH REFERENCE MANUAL
 060 900616 XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS

070 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
080 OPERATOR INTERVENTION, INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOC-
090 IATED LIBRARIES.
100 COMMENTS ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAGNETIC TAPES.

B3850038 000 AB 9-SERIES 930 RAD MONARCH SYSTEM P VM
010 AUTHOR XEROX
020 850038-11B00 DESCRIPTION PRINTED
030 850038-74B00 850035-74 TEST AND DEMO DECKS
040 850038-85B00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
050 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
060 OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.I. FORT-II
070 PROCESSORS AND ASSOCIATED LIBRARIES.
080 COMMENTS ANY XDS 930 WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND A 9367 DISC FILE.

B3850040 000 AB 900-SERIES SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE P MM
010 AUTHOR XEROX
020 850040-11B00 DESCRIPTION PRINTED
030 900506 XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL
040 900688 XDS 900 SERIES SYMBOL TECHNICAL MANUAL
050 ABSTRACT TO ASSEMBLE SOURCE PROGRAMS WRITTEN IN THE SYMBOL ASSEMBLY LANGUAGE.
060 COMMENTS THIS PROGRAM COVERS CATALOG NUMBERS: 850041 THRU 850059.

B3850065 000 AB 900-SERIES META-SYMBOL ASSEMB. COMMON SOFTWARE PKG P MM
010 AUTHOR XEROX
020 850065-11B00 DESCRIPTION PRINTED
030 850065-45B00 * COMPRESSED MAG TAPE, 7 CHANNELS
040 850065-51B00 LISTING PRINTED
050 900506 XDS SYMBOL AND META-SYMBOL REFERENCE MANUAL
060 900827 XDS META-SYMBOL TECHNICAL MANUAL
070 ABSTRACT THIS PACKAGE IS THE COVER FOR THE 900-SERIES META-SYMBOL ASSEMBLER, THE SYSTEM IS ONLY AVAILAABLE UNDER
080 MONARCH.
090 COMMENTS RELOCATABLE BINARY ON MONARCH SYSTEM TAPES: 850035-85 850036-85, 850037-85, 850038-85. THIS PROGRAM
100 INCLUDES CATALOG NUMBERS 850066 THRU 850090, 851262 THRU 851270, AND 851273 THRU 851281

B3850095 000 AB 900-SERIES MONARCH LIBRARY COMMON SOFTWARE PACKAGE P MM
010 AUTHOR XEROX
020 850095-11B00 DESCRIPTION PRINTED
030 850095-35B00 * SOURCE MAG TAPE, 7 CHANNELS

040 900566 XDS MONARCH REFERENCE MANUAL
050 900616 XDS MONARCH TECHNICAL MANUAL, 900 SERIES / 9300 COMPUTERS
060 ABSTRACT THIS PACKAGE CONTAINS THOSE ROUTINES COMMON TO ALL 900 SERIES MONARCH SYSTEMS.
070 COMMENTS 900 SERIES RELOCATABLE BINARY ON MONARCH SYSTEM TAPES. THIS PROGRAM COVERS CATALOG NUMBERS 850101 THRU
080 850160, 850171 THRU 850202, 850204, 850642, 850647 PART OF CATALOG NO. 850095, MONARCH LIBRARY COMMON
090 SOFTWARE PACKAGE. RELOCATABLE BINARY AVAILABLE AS PART OF 850035-85 FOR TAPE MONARCH AND 850036-85 FOR
100 RAD MONARCH.

B3850161 000 AA 910 PROJECT MANAGEMENT SYSTEM (CPM) COVER P MM
010 AUTHOR XEROX
020 850161-11A00 DESCRIPTION PRINTED
030 850161-25A00 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
040 900818 XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
050 900822 XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
060 901504 XDS EXTENDED PROJECT MANAGEMENT SYSTEMS
070 ABSTRACT THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, WHICH CONSISTS OF THE FOLLOWING PROGRAMS
080 SCHEDULE SPECTRUM PROGRAM (SSP), DETAIL SCHEDULE REPORT PROGRAM (DSRP) PROGRESS EVALUATION PROGRAM (PEP)
090 PROGRESS EVALUATION SORT PROGRAM (PEPSORT) RESOURCE ALLOCATION PROGRAM (RAP) BARCHART
100 COMMENTS COMPUTER CONFIGURATION: 910/925 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE
110 WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND A BUFFERED PRINTER. THIS PROGRAM COVERS CATALOG NUMBERS
120 850162 THRU 850167, 850362 THRU 850368 TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

B3850210 000 AB 910/925 FORTRAN II COMMON SOFTWARE PACKAGE P MM
010 AUTHOR XEROX
020 850210-11800 DESCRIPTION PRINTED
030 850210-35800 * SOURCE MAG TAPE, 7 CHANNELS
040 900003 FORTRAN II REFERENCE MANUAL
050 900587 XDS 900 SERIES FORTRAN II OPERATIONS MANUAL
060 ABSTRACT THE FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING, LOADING, AND EXECUTING FORTRAN II PROGRAMS.
070 COMMENTS SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS
080 MANUAL. RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON
090 850036-85 FOR RAD MONARCH. RELOCATABLE BINARY AVAILABLE ON 850808-85 FOR STAND-ALONE (S/A) THIS PROGRAM
100 COVERS CATALOG NUMBERS 850211, 850212, 850215 THRU 850251, 850256 THRU 850277, 850279 THRU 850294,
110 851138 THRU 851141, 851282, 851283

B3850315 000 AB 9-SERIES 920/930 FORTRAN-II COMMON SOFTWARE PKG. P VM
010 AUTHOR XEROX
020 850315-11800 DESCRIPTION PRINTED
030 850315-35800 * SOURCE MAG TAPE, 7 CHANNELS

040 850315-74800 850035-74 TEST AND DEMO DECKS
 050 900003 FORTRAN II REFERENCE MANUAL
 060 900587 XDS 900 SERIES FORTRAN II OPERATIONS MANUAL
 070 ABSTRACT THIS PACKAGE CONTAINS 920/930 FORTRAN II COMPILER, AND LOADER ROUTINES SEE COMPARABLE 910/925 ROUTINES
 080 FOR ABSTRACTS.
 090 COMMENTS SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS
 100 MANUAL, RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH, RELOCATABLE BINARY AVAILABLE ON
 110 850038-85 FOR RAD MONARCH, THIS COVER NUMBER INCLUDES CATALOG NUMBERS 850212, 850316, 850318 THRU
 120 850322, 850325 THRU 850329, 850558 THRU 850623, 851140, 851125, 851126, 851141, 851284, 851285

B3850330 000 AA 9-SERIES ALGOL COMMON SOFTWARE PACKAGE (COVER) P VM
 010 AUTHOR XEROX
 020 850330-11A00 DESCRIPTION PRINTED
 030 850330-25A00 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
 040 850330-35A00 * SOURCE MAG TAPE, 7 CHANNELS
 050 900694 XDS ALGOL 60 TECHNICAL MANUAL, XDS 900 / 9300 COMPUTERS
 060 900699 XDS ALGOL 60 REFERENCE MANUAL
 070 ABSTRACT THE 900 SERIES ALGOL 60-8 SYSTEM IS A COMPLETE SYSTEM FOR COMPILING, LOADING, AND EXECUTING ALGOL 60-8
 080 PROGRAMS.
 090 COMMENTS THIS PROGRAM COVERS CATALOG NO. S: 850818 THRU 850823, 850825, 850826, 850827, 850844 THRU 850846, 850972
 100 THRU 850977, 850979 THRU 850981, 851000 THRU 851002, 850331, 850332, 850335 THRU 850355, 850360, 850361,
 110 850370 THRU 850372.

B3850362 000 AA 920 PROJECT MANAGEMENT SYSTEM (CPM) COVER P MM
 010 AUTHOR XEROX
 020 850362-25A00 850161-25 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
 030 900818 XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
 040 900822 XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
 050 901504 XDS EXTENDED PROJECT MANAGEMENT SYSTEM
 060 ABSTRACT THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, SEE COMPARABLE 910/925 ROUTINES FOR
 070 ABSTRACTS.
 080 COMMENTS COMPUTER CONFIGURATION: ANY XDS 900S WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE
 090 WRITER, PAPER TAPE OF PUNCHED CARD INPUT, AND AN OFF-LINE OR UN-LINE PRINTER, TWO 2400 FT. TAPES ARE
 100 NEEDED FOR SOURCE MAG TAPE

B3850400 000 AB 910 REAL-TIME FORTRAN COMMON SOFTWARE PKG P MM
 010 AUTHOR XEROX
 020 850400-11B00 DESCRIPTION PRINTED
 030 850400-35B00 * SOURCE MAG TAPE, 7 CHANNELS

040 901048 XDS 900 SERIES REAL-TIME FORTRAN II TECHNICAL MANUAL
050 ABSTRACT TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS, SEE COMPARABLE 910/925 ROUTINES
060 FOR ABSTRACTS.
070 COMMENTS RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850036-85 FOR
080 RAD MONARCH, THIS PROGRAM COVERS CATALOG NUMBERS 850401, 850403 THRU 850406, 850408 THRU 850476, 850478,
090 851286, 851287

B3850480 000 AB 9-SERIES 920/930 R/T FORTRAN COMMON SOFTWARE PKG. P VM
010 AUTHOR XEROX
020 850480-11B00 DESCRIPTION PRINTED
030 850480-35B00 * SOURCE MAG TAPE, 7 CHANNELS
040 850480-74B00 850035-74 TEST AND DEMO DECKS
050 901048 XDS 900 SERIES REAL-TIME FORTRAN II
060 ABSTRACT TO PROVIDE BATCH PROCESSING CAPABILITY FOR REAL-TIME FORTRAN II UNDER MONARCH, FOR ABSTRACTS, SEE
070 COMPARABLE ROUTINES IN EITHER 910/925 FORTRAN II OR 910/925 R.T. FORTRAN II.
080 COMMENTS RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR
090 RAD MONARCH, THIS PROGRAM COVERS CATALOG NUMBERS 850481 THRU 850483, 850485 THRU 850557, 851288, 851289

B3850626 000 AA 9-SERIES PAPER TAPE REPRODUCER PROGRAM P VM
010 AUTHOR XEROX
020 850626-11A00 DESCRIPTION PRINTED
030 850626-44A00 * COMPRESSED CARDS
040 850626-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO REPRODUCE BINARY PAPER TAPE, ONLY THOSE TAPES WHICH HAVE AN INTEGRAL MULTIPLE OF FOUR CHARACTERS PER
060 BLOCK CAN BE PRODUCED BY THIS PROGRAM.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 355 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTER WITH PUNCH,
080 READER AND TYPEWRITER.

B3850628 000 AA 9-SERIES MEMORY TYPE-CUT, REDUNDANCY ELIMINATION P VM
010 AUTHOR XEROX
020 850628-11A00 DESCRIPTION PRINTED
030 850628-34A00 * SOURCE CARDS
040 ABSTRACT THIS PROGRAM TYPES SPECIFIED SECTIONS OF MEMORY, FOUR WORDS PER LINE, IN EITHER OCTAL OR INSTRUCTION
050 FORMAT, BIT PATTERNS WHICH REPEAT ARE INDICATED, RATHER THAN REDUNDANTLY TYPED.
060 COMMENTS SIZE 129 DECIMAL. CONFIGURATION: 910 OR 920 COMPUTER WITH TYPEWRITER.

B3850629 000 AA 9-SERIES DEBUG P VM
010 AUTHOR XEROX
020 850629-11A00 DESCRIPTION PRINTED

030 850629-24A00 RELOCATABLE BINARY CARDS
 040 850629-34A00 * SOURCE CARDS
 050 ABSTRACT THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN DEBUGGING, FUNCTIONS WHICH MAY BE PERFORMED BY
 060 THIS ROUTINE ARE 1,MAKE IN-CORE CORRECTIONS OR INSERTIONS, 2,DUMP SELECTED MEMORY AREAS ON THE PRINTER
 070 OR TYPEWRITER, 3,PERFORM SNAPSHOTS AT SELECTED POINTS, 4,ALLOW THE USER TO SEIZE CONTROL AT SELECTED
 080 POINTS, 5,PERFORM MASKED MEMORY SEARCHES.
 090 COMMENTS SIZE 477 DECIMAL, CONFIGURATION: ANY XDS 910 OR 920 COMPUTER.

B3850634 000 AA 9-SERIES BINARY PAPER TAPE BOOTSTRAP + GENERATOR P VM
 010 AUTHOR XEROX
 020 850634-11A00 DESCRIPTION PRINTED
 030 850634-34A00 * SOURCE CARDS
 040 ABSTRACT TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON PAPER TAPE
 050 IN STANDARD BINARY FORMAT.
 060 COMMENTS SOURCE LANGUAGE: SYMBOL/META-SYMBOL, SIZE 55 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH
 070 4K MEMORY AND PAPER TAPE PUNCH.

B3850637 000 AA 9-SERIES BINARY PAPER TAPE LIST P VM
 010 AUTHOR XEROX
 020 850637-11A00 DESCRIPTION PRINTED
 030 850637-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDE A METHOD OF LISTING A BINARY PAPER TAPE.
 050 COMMENTS SOURCE LANGUAGE: SYMBOL/META-SYMBOL, SIZE 140 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH
 060 AN XDS MODEL 9173 LINE PRINTER OR TYPEWRITER.

B3850638 000 AA 9-SERIES FORTRAN II MEMORY SAVE P VM
 010 AUTHOR XEROX
 020 850638-11A00 DESCRIPTION PRINTED
 030 850638-34A00 * SOURCE CARDS
 040 ABSTRACT TO PUNCH A SELF-LOADING PAPER TAPE REPRESENTING THE FORTRAN PROGRAM WHICH IS IN CORE AND OPTIONALLY TO
 050 PUNCH ANY OF THE FOLLOWING: 1. THE FORTRAN VARIABLES 2. COMMON 3. RUN-TIME .
 060 COMMENTS SOURCE LANGUAGE: SYMBOL-8, SIZE 355 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE
 070 READER, PAPER TAPE PUNCH, AND CONSOLE TYPEWRITER, CARD READER OPTIONAL.

B3850639 000 AA 9-SERIES PAPER TAPE PHOTO-READER TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 850639-11A00 DESCRIPTION PRINTED
 030 850639-34A00 * SOURCE CARDS
 040 ABSTRACT TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTO READER.

050 COMMENTS SIZE 340 DECIMAL, CONFIGURATION: ANY 920 OR 910 WITH TYPEWRITER

B3850640 000 AA 9-SERIES SEMI-AUTOMATIC TYPEWRITER TEST (SATT) D VM
010 AUTHOR XEROX
020 850640-11A00 DESCRIPTION PRINTED
030 850640-44A00 * COMPRESSED CARDS
040 850640-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE
060 TYPEWRITER WHEN USED IN THE ON-LINE MODE.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 267 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER.

B3850641 000 AA 9-SERIES FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE P VM
010 AUTHOR XEROX
020 850641-11A00 DESCRIPTION PRINTED
030 850641-34A00 * SOURCE CARDS
040 ABSTRACT TO COPY FORTRAN SOURCE CARD IMAGES (COLUMNS 1-72, OR LESS) ONTO PAPER TAPE AND CONVERT ALL CARD BLANKS
050 (60) TO SPACES (12).
060 COMMENTS SIZE 70 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER AND PAPER TAPE PUNCH.

B3850642 000 AB 900-SERIES MEDIA CONVERSION ROUTINE P MM
010 AUTHOR XEROX
020 850642-11B00 DESCRIPTION PRINTED
030 850642-35B00 850095-35 SOURCE MAG TAPE, 7 CHANNELS
040 850642-84B00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO COPY VARIABLE LENGTH RECORDS ON BINARY OR BCD CARDS, PAPER OR MAGNETIC TAPE, OR TYPED INPUT, 10
060 CARDS, PAPER OR MAGNETIC TAPE, TYPEWRITER OR LINE PRINTER.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 1161 DECIMAL, CONFIGURATION: ANY 4K XDS 910, 920, 925 OR 930 WITH
080 ONE OR MORE PERIPHERAL DEVICES ATTACHED TO ANY OR CHANNEL AND A CONSOLE TYPEWRITER ON THE W BUFFER.
090 BINARY IS ALSO AVAILABLE ON MONARCH SYSTEM TAPES. THIS PROGRAM IS PART OF CATALOG NO. 850095.
100 PROGRAM IS PART OF CATALOG

B3850643 000 AA 9-SERIES BINARY DUMP, PAPER TAPE OR CARDS P VM
010 AUTHOR XEROX
020 850643-11A00 DESCRIPTION PRINTED
030 850643-24A00 RELOCATABLE BINARY CARDS
040 850643-44A00 * COMPRESSED CARDS
050 ABSTRACT TO DUMP MEMORY IN STANDARD BINARY FORMAT OR PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE
060 PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 252 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER

080 TAPE AND/OR CARD I/C.

B3850644 000 AA 9-SERIES BINARY INPUT-BASIC PAPER TAPE LOADER P VM
010 AUTHOR XEROX
020 850644-11A00 DESCRIPTION PRINTED
030 850644-44A00 * COMPRESSED CARDS
040 ABSTRACT TO LOAD RELOCATABLE OR ABSOLUTE OBJECT PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL ON PAPER TAPE, AND TO
050 LOAD THE 'STANDARD CONSTANTS.'
060 COMMENTS SIZE 79 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER.

B3850645 000 AA 9-SERIES UNIVERSAL LOADER P VM
010 AUTHOR XEROX
020 850645-11A00 DESCRIPTION PRINTED
030 850645-44A00 * COMPRESSED CARDS
040 850645-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER
060 PUNCHED CARDS OR PAPER TAPE, THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER
070 BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
080 COMMENTS SIZE 664 DECIMAL, ASSEMBLY LANGUAGE USED: SYMBOL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD
090 READER AND/OR PHOTO READER AND A TYPEWRITER, LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS
100 WHICH EXIST EITHER ON CARDS OR PAPER TAPE.

B3850646 000 AA 9-SERIES XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR P VM
010 AUTHOR XEROX
020 850646-11A00 DESCRIPTION PRINTED
030 850646-24A00 RELOCATABLE BINARY CARDS
040 850646-44A00 * COMPRESSED CARDS
050 850646-84A00 ABSOLUTE BINARY CARDS
060 ABSTRACT TO TRANSLATE XDS 92 BINARY OBJECT PROGRAMS PRODUCED BY META-SYMBOL FROM THE STANDARD XDS 900 SERIES
070 BINARY OBJECT LANGUAGE INTO THE STANDARD XDS 92 BINARY OBJECT PROGRAM LANGUAGE.
080 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE 622 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE
090 READER OR CARD READER, PAPER TAPE PUNCH OR CARD PUNCH.

B3850647 000 AB 900-SERIES ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON) P MM
010 AUTHOR XEROX
020 850647-11B00 DESCRIPTION PRINTED
030 850647-35B00 850095-35 SOURCE MAG TAPE, 7 CHANNELS
040 850647-84B00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO RECONSTRUCT FROM AN ENCODED REPRESENTATION OF A PROGRAM ON PAPER TAPE, CARDS OR MAGNETIC TAPE A

060 SYMBOLIC REPRESENTATION OF THE PROGRAM ON CARDS, PAPER TAPE OR MAGNETIC TAPE.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1019 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT
080 LEAST 4K WORDS OF MEMORY AND A CARD READER, OR PAPER TAPE READER, OR MAGNETIC TAPE UNIT AND CARD PUNCH
090 OR PAPER TAPE PUNCH OR MAGNETIC TAPE UNIT. BINARY ALSO AVAILABLE ON MONARCH SYSTEM TAPES.

B3850648 000 AA 9-SERIES BINARY INPUT ONE CARD LOADER P VM
010 AUTHOR XEROX
020 850648-11A00 DESCRIPTION PRINTED
030 850648-34A00 * SOURCE CARDS
040 850648-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN
060 STANDARD BINARY FORMAT.
070 COMMENTS SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.

B3850649 000 AA 9-SERIES BINARY INPUT-TWO CARD LOADER P VM
010 AUTHOR XEROX
020 850649-11A00 DESCRIPTION PRINTED
030 850649-44A00 * COMPRESSED CARDS
040 850649-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO LOAD RELOCATABLE OR ABSOLUTE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER
060 ON PUNCHED CARDS.
070 COMMENTS SIZE 78 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER.

B3850650 000 AA 9-SERIES ABSOLUTE BINARY LOADER WITH CONSTANTS P VM
010 AUTHOR XEROX
020 850650-11A00 DESCRIPTION PRINTED
030 850650-34A00 * SOURCE CARDS
040 850650-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN
060 STANDARD BINARY FORMAT.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE 63 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD
080 READER.

B3850652 000 AA 9-SERIES THREE CARD RELOCATABLE LOADER P VM
010 AUTHOR XEROX
020 850652-11A00 DESCRIPTION PRINTED
030 850652-34A00 * SOURCE CARDS
040 850652-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO LOAD ABSOLUTE OR RELOCATABLE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER

060 IN XDS STANDARD BINARY PUNCHED CARD FORMAT,
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 135 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARDS
080 READER.

B3850653 000 AA 9-SERIES OCTAL INPLT-CNE CARD LOADER P VM
010 AUTHOR XEROX
020 850653-11A00 DESCRIPTION PRINTED
030 850653-34A00 * SOURCE CARDS
040 850653-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
060 COMMENTS SIZE 32 DECIMAL, ANY XDS 900 SERIES COMPUTER.

B3850655 000 AA 9-SERIES PHOTO READER TEST PROGRAM D VM
010 AUTHOR XEROX
020 850655-11A00 DESCRIPTION PRINTED
030 850655-44A00 * COMPRESSED CARDS
040 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE THE PHOTO READER AND TO TEST ITS OPERATION IN CONTINUOUS AS WELL AS
050 STOP-START MODES OF OPERATION, THE OPERATOR MAY VARY THE TIME CONSTANTS CONTROLLING THE STOP AND START
060 TO TEST EXTREME CONDITIONS.
070 COMMENTS SIZE 146 DECIMAL, CONFIGURATION: ANY 910,920, OR 930 WITH A PHOTO READER

B3850656 000 AA 9-SERIES 900 SERIES CARD READER TEST PROGRAM D VM
010 AUTHOR XEROX
020 850656-11A00 DESCRIPTION PRINTED
030 850656-44A00 * COMPRESSED CARDS
040 850656-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO VERIFY THE OPERATION OF THE XDS 9151 OR 9152 CARD READER.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 535 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD
070 PUNCH.

B3850657 000 AA 9-SERIES CARD PUNCH TEST PROGRAM PACKAGE -9156 D VM
010 AUTHOR XEROX
020 850657-11A00 DESCRIPTION PRINTED
030 850657-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9156 CARD PUNCH SYSTEM.
050 COMMENTS SIZE 172 DECIMAL, SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: ANY XDS 920/930 OR 910/925 WITH A
060 TYPEWRITER, AND XDS MODEL 9151 OR 9152 CARD READER ON CHANNEL A (W), INTERLACE IS NOT USED.

B3850658 000 AA 9-SERIES CARD PUNCH TEST PROGRAM -9157 D VM

010 AUTHOR XEROX
 020 850658-11A00 DESCRIPTION PRINTED
 030 850658-34A00 * SOURCE CARDS
 040 850658-84A00 ABSOLUTE BINARY CARDS
 050 TO PROVIDE A MEANS OF TESTING THE CARD PUNCH,
 060 ABSTRACT SIZE 223 DECIMAL, CONFIGURATION: XDS 920 OR XDS 910 WITH MODEL 9156 CARD PUNCH SYSTEM, FOR THE VERIFY
 070 COMMENTS TEST, AN XDS MODEL 9151 CARD READER AND A TYPEWRITER ARE REQUIRED,

B3850659 000 AA 9-SERIES CARD PUNCH TEST PROG/MOD,9157(INTERLACE) D VM
 010 AUTHOR XEROX
 020 850659-11A00 DESCRIPTION PRINTED
 030 850659-44A00 * COMPRESSED CARDS
 040 850659-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A MEANS OF TESTING THE CARD PUNCH,
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 608 DECIMAL, CONFIGURATION: ANY 910, 920, 925, OR 930 WITH MODEL 9157
 070 CARD PUNCH COUPLER SYSTEM,

B3850660 000 AA 9-SERIES STANDARD CARD READER TEST DECK PROGRAM D VM
 010 AUTHOR XEROX
 020 850660-11A00 DESCRIPTION PRINTED
 030 850660-74A00 DATA CARDS
 040 ABSTRACT DOCUMENT STANDARD TEST CARD DECK FOR CARD READER TEST PROGRAM,
 050 COMMENTS CONFIGURATION: ANY 900/9300 SERIES COMPUTER,

B3850661 000 AA 9-SERIES 9158 CARD PUNCH TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 850661-11A00 DESCRIPTION PRINTED
 030 850661-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE A MEANS OF TESTING THE CARD PUNCH,
 050 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 230 DECIMAL, CONFIGURATION: ANY 925/930 COMPUTER WITH MODEL 9158
 060 CARD PUNCH COUPLER SYSTEM, (WITHOUT INTERLACE AND EXTENDED MODE)

B3850662 000 AA 9-SERIES 900 SERIES FORTRAN II COMPILER DUMP P VM
 010 AUTHOR XEROX
 020 850662-11A00 DESCRIPTION PRINTED
 030 850662-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE A MEANS OF DUMPING THE FORTRAN II COMPILER, PRECEDED BY AN ABSOLUTE BINARY LOADER, EITHER ON
 050 PAPER TAPE OR CARDS, THIS ALLOWS THE USER TO GENERATE AN EXTENDED COMPILER INCORPORATING ANY OF THE
 060 AVAILABLE COMPILER MODIFICATIONS.

070 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE:391 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE
080 PUNCH OR CARD PUNCH.

B3850663 000 AA 9-SERIES BASIC SYMBOLIC MAGNETIC TAPE EDITOR P VM
010 AUTHOR XEROX
020 850663-11A00 DESCRIPTION PRINTED
030 850663-34A00 * SOURCE CARDS
040 850663-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO COPY AND UPDATE MAGNETIC TAPES CONTAINING VARIABLE LENGTH RECORDS (1-33 WORDS) OF BCD INFORMATION.
060 COMMENTS SOURCE LANGUAGE: FORTRAN, SYMBOL, SIZE:8000 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 6K
070 MEMORY, TYPEWRITER, AND TWO MAGNETIC TAPES, A CARD READER IS DESIRABLE.

B3850666 000 AA 9-SERIES MAG TAPE STANDARD FILL SIMULATOR(910/920 P VM
010 AUTHOR XEROX
020 850666-11A00 DESCRIPTION PRINTED
030 850666-34A00 * SOURCE CARDS
040 ABSTRACT TO LOAD PROGRAMS FROM MAGNETIC TAPE 0 VIA THE STANDARD FILL PROCEDURE.
050 COMMENTS SIZE 20 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH ONE MAGNETIC TAPE UNIT (SET TO ZERO).

B3850667 000 AA 9-SERIES BINARY INPUT-MAGNETIC TAPE ABSOLUTE LDR P VM
010 AUTHOR XEROX
020 850667-11A00 DESCRIPTION PRINTED
030 850667-34A00 * SOURCE CARDS
040 ABSTRACT TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON LOW
050 DENSITY MAGNETIC TAPE IN STANDARD BINARY FORMAT.
060 COMMENTS SOURCE LANGUAGE: SYMBOL/META-SYMBOL, SIZE:38 DECIMAL, ANY XDS 900 SERIES COMPUTER WITH MAGNETIC TAPE.

B3850669 000 AA 9-SERIES MONARCH - LIBPACK P MM
010 AUTHOR XEROX DATA SYSTEMS
020 850669-11A00 DESCRIPTION PRINTED
030 850669-25A00 850035-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
040 850669-25A00 850036-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
050 850669-25A00 850037-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
060 850669-25A00 850038-85 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
070 850669-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
080 ABSTRACT TO PROVIDE A GENERALIZED GET/PUT PROGRAM DESIGNED TO CREATE BLOCKED LIBRARY MAG TAPES WRITTEN BCD OR
090 BINARY (ENCODED) TO FACILITATE TAPE STORAGE. THE PROGRAM ALSO PROVIDES THE ABILITY TO RECREATE HARD
100 COPY, PRINTED LISTS AND GENERATE MULTIPLE MASTER COPIES FOR BACK UP AND GENERAL DISTRIBUTION.
110 COMMENTS THIS PROGRAM IS PART OF 850000, MONARCH COMMON SOFTWARE PACKAGE, RELOCATABLE BINARY ARE PART OF THE

120 APPROPRIATE SYSTEM TAPE.

B3850671 000 AA 9-SERIES INSTRUCTION DIAGNOSTIC D VM
010 AUTHOR XEROX
020 850671-11A00 900019 DESCRIPTION PRINTED
030 850671-44A00 * COMPRESSED CARDS
040 900019 910/920 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
060 COMMENTS THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL NUMBER
070 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.

B3850675 000 AA 9-SERIES 15KC MAGNETIC TAPE TEST D VM
010 AUTHOR XEROX
020 850675-11A00 DESCRIPTION PRINTED
030 850675-34A00 * SOURCE CARDS
040 850675-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 15KC MAGNETIC TAPE UNITS.
060 COMMENTS SIZE: 592 DECIMAL. CONFIGURATION: ALL XDS 920 SYSTEMS AND ANY 910 WITH A TYPEWRITER WHICH HAVE ONE OR
070 MORE MAGNETIC TAPE UNITS CONNECTED TO THE W BUFFER.

B3850676 000 AA 9-SERIES MULTI-MAGNETIC TAPE SYSTEM EXERCISER D VM
010 AUTHOR XEROX
020 850676-11A00 DESCRIPTION PRINTED
030 850676-34A00 * SOURCE CARDS
040 850676-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO SIXTEEN TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN
060 RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM
070 WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING
080 THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
090 COMMENTS SIZE 1155 DECIMAL. CONFIGURATION: ALL 920, 925 AND 930 SYSTEMS, OR ANY 910 SYSTEMS WITH A TYPEWRITER,
100 WHICH HAVE ONE TO SIXTEEN TAPE UNITS ATTACHED TO THE W AND Z OR Y BUFFERS. NO INTERLACE IS REQUIRED AND
110 THE TAPES MAY BE OF ANY DENSITY AND SPEED WITHIN THE LIMITATIONS OF THE BUFFER TO WHICH THEY ARE
120 ATTACHED.

B3850677 000 AA 9-SERIES 92 PROCEDURE DECK P VM
010 AUTHOR XEROX
020 850677-11A00 DESCRIPTION PRINTED
030 850677-34A00 * SOURCE CARDS
040 ABSTRACT META-SYMBOL WITH THIS PROC DECK SERVES AS IN INTERIM ASSEMBLER IN PLACE OF 92 SYMBOL.

050 COMMENTS PROGRAMS ASSEMBLED WITH THIS PROC DECK SHOULD BE PRECEDED BY AORG N, N> 32. THE FOLLOWING SHOULD NOT BE
060 USED: TEXT, BCE, REG, REF, DEF, OPD, LOCAL SYMBOLS, SOURCE LANGUAGE: META-SYMBOL.

B3850678 000 AA 9-SERIES DEMONSTRATION OF LINKING UNDER MONARCH P VM
010 AUTHOR XEROX
020 850678-11A00 DESCRIPTION PRINTED
030 850678-34A00 * SOURCE CARDS
040 ABSTRACT TO DEMONSTRATE - COMPILING OF THREE LINKS, WRITING THE LINKS ON THE LINKING TAPE AND EXECUTING THE
050 PROGRAM,
060 COMMENTS SOURCE LANGUAGE: FORTRAN, CONFIGURATION: 900 SERIES WITH AT LEAST TWO MAGNETIC TAPES AND CARD READER.

B3850680 000 AA 9-SERIES FORTRAN II RUN-TIME DEBUG SUBROUTINE P VM
010 AUTHOR XEROX
020 850680-11A00 DESCRIPTION PRINTED
030 850680-24A00 RELUCATABLE BINARY CARDS
040 850680-34A00 * SOURCE CARDS
050 ABSTRACT TO ALLOW THE USER TO EXAMINE THE VALUES OF VARIABLES DURING THE EXECUTION OF A FORTRAN PROGRAM AND TO
060 CHANGE THESE VALUES CONVENIENTLY.
070 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE:319 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH TYPEWRITER.

B3850681 000 AA 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER D VM
010 AUTHOR XEROX
020 850681-11A00 DESCRIPTION PRINTED
030 850681-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND SUBSEQUENT TESTING OF TAPE UNITS.
050 COMMENTS SIZE:593 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE
060 UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE Y BUFFER. THE BUFFER MUST BE INTERLACED.

B3850682 000 AA 900-SERIES 42KC MAG TAPE SYS EXERCISER, Y BUF D VM
010 AUTHOR XEROX
020 850682-11A00 DESCRIPTION PRINTED
030 850682-34A00 * SOURCE CARDS
040 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN
050 RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM
060 WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING
070 THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
080 COMMENTS SIZE 990 DECIMAL, CONFIGURATION: ALL 920 SYSTEMS, OR ANY 910 WITH TYPEWRITER, WHICH HAVE ONE OR MORE
090 TAPE UNITS ATTACHED TO THE Y BUFFER THROUGH A 9248 TAPE CONTROL UNIT, THE Y BUFFER MUST HAVE A 9121
100 INTERLACE CONTROL ATTACHED.

B3850684 000 AA 9-SERIES CARD OR MAG TAPE TO BUFFERED LINE PRINTR P VM
 010 AUTHOR XEROX
 020 850684-11A00 DESCRIPTION PRINTED
 030 850684-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO PROVIDE A METHOD OF PRINTING CARD IMAGES FROM EITHER A CARD READER OR A MAGNETIC TAPE UNIT WITH OR
 050 WITHOUT FORMAT CONTROL ON THE LINE PRINTER.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 806 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTER WITH AN XDS
 070 BUFFERED LINE PRINTER AND EITHER AN XDS MODEL 9151 CARD READER OR XDS MODEL (9145 OR 9240) MAGNETIC TAPE
 080 UNIT.

B3850686 000 AA 9-SERIES FORTRAN FREE INTERRUPTS SUBROUTINE P VM
 010 AUTHOR XEROX
 020 850686-11A00 DESCRIPTION PRINTED
 030 850686-24A00 RELOCATABLE BINARY CARDS
 040 ABSTRACT TO ALLOW THE USER TO USE LOCATIONS 200-247 FOR INTERRUPTS DURING THE EXECUTION OF A FORTRAN OBJECT
 050 PROGRAM.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 136 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER.

B3850687 000 AA 9-SERIES SEQ. NUMBER ASGNT.+P.T.UPDATING ROUTINES P VM
 010 AUTHOR XEROX
 020 850687-11A00 DESCRIPTION PRINTED
 030 850687-34A00 * SOURCE CARDS
 040 ABSTRACT TO LIST THE SOURCE STATEMENT WITH SEQUENCE NUMBERS TO FACILITATE USE OF THE UPDATING PORTIONS OF THE
 050 PROGRAM AND TO PUNCH AN UPDATED VERSION OF THE SOURCE PROGRAM.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 4009 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K
 070 MEMORY, PAPER TAPE I/O AND TYPEWRITER.

B3850688 000 AA 9-SERIES UTILITY AND DEBUG PACKAGE (AID) P VM
 010 AUTHOR XEROX
 020 850688-11A00 DESCRIPTION PRINTED
 030 850688-44A00 * COMPRESSED CARDS
 040 850688-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT PROVIDE VARIOUS UTILITY ROUTINE AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM
 060 CHECKOUT.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 2584 DECIMAL, CONFIGURATION: ANY 900 SERIES XDS COMPUTER WITH A
 080 CONSOLE TYPEWRITER.

B3850690 000 AA 900-SERIES ALGOL 60 EXT'D UNBUF LINE PRT, LIB ROUT. P VM

010 AUTHOR XEROX
020 850690-11A00 DESCRIPTION PRINTED
030 850690-24A00 RELOCATABLE BINARY CARDS
040 850690-34A00 * SOURCE CARDS
050 850690-51A00 850690-11 LISTING PRINTED
060 ABSTRACT TO ALLOW USE OF UNBUFFERED LINE PRINTER IN ALGOL SYSTEM. THIS LIBRARY PROGRAM IS LOADED WHEN OUTPUT TO
070 THE LINE PRINTER IS CALLED FOR IN AN ALGOL PROGRAM. OUTPUT TO THE LINE PRINTER IS
080 COMMENTS SOURCE LANGUAGE: METASYMBOL COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN UNBUFFERED
090 PRINTER (XDS MODEL NO. 9372).

B3850691 000 AA 9-SERIES BUFFERED LINE PRINTER TEST PROGRAM D VM
010 AUTHOR XEROX
020 850691-11A00 DESCRIPTION PRINTED
030 850691-34A00 * SOURCE CARDS
040 850691-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 PRINTER 1 (W-BUFFER) ON A 910 OR 920.
060 INTERLACE IS NOT REQUIRED.
070 COMMENTS SOURCE LANGUAGE: SYMBOL 8, SIZE: 1161 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS
080 BUFFERED LINE PRINTER, USING 8 CHANNEL FORMAT TAPE FOR SKIPPING.

B3850692 000 AA 9-SERIES OFF-LINE PRINTER TEST D VM
010 AUTHOR XEROX
020 850692-11A00 DESCRIPTION PRINTED
030 850692-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A MEANS FOR TESTING THE OFF-LINE OPERATION OF THE PRINTER.
050 COMMENTS SIZE: 406 DECIMAL, CONFIGURATION: ANY 910, 920, OR 930 WITH A TYPEWRITER, PRINTER WITH OFF-LINE FEATURE,
060 AND TAPE UNIT OR CARD READER ATTACHED TO THE W BUFFER.

B3850693 000 AA 9-SERIES BUFFERED PRINTER DIAGNOSTIC D VM
010 AUTHOR XEROX
020 850693-11A00 DESCRIPTION PRINTED
030 850693-44A00 * COMPRESSED CARDS
040 850693-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND
060 TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 1290 DECIMAL, CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER
080 WITH A BUFFERED LINE PRINTER CONNECTED TO THE W OR Y BUFFER, AND WITH A TYPEWRITER CONNECTED TO THE W
090 BUFFER.

83850694 000 AA 9-SERIES UNBUFFERED LINE PRINTER TEST D VM
 010 AUTHOR XEROX
 020 850694-11A00 DESCRIPTION PRINTED
 030 850694-44A00 * COMPRESSED CARDS
 040 ABSTRACT PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE
 050 PRINTER'S RESPONSE TO PROGRAM GENERATED COMMANDS.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 1510 DECIMAL, CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER
 070 WITH A MODEL 9372 LINE PRINTER CONNECTED TO CHANNELS W OR Y AND A TYPEWRITER CONNECTED TO CHANNEL W.

83850695 000 AA 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM, W BUFFER D VM
 010 AUTHOR XEROX
 020 850695-11A00 DESCRIPTION PRINTED
 030 850695-34A00 * SOURCE CARDS
 040 850695-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 42KC MAGNETIC TAPE UNITS.
 060 COMMENTS SIZE 587 DECIMAL, ANY 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE
 070 EXCEPT 9145 ATTACHED TO THE W BUFFER. THE BUFFER MUST BE INTERLACED.

83850696 000 AA 9-SERIES 42KC MAGNETIC TAPE EXERCISER, W BUFFER D VM
 010 AUTHOR XEROX
 020 850696-11A00 DESCRIPTION PRINTED
 030 850696-34A00 * SOURCE CARDS
 040 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN
 050 RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM
 060 WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING
 070 THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
 080 COMMENTS SIZE 990 DECIMAL, CONFIGURATION: ALL 920 SYSTEMS (OR 910 WITH TYPEWRITER) WHICH HAVE ONE OR MORE TAPE
 090 UNITS ATTACHED TO THE W BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE W BUFFER MUST HAVE A 9121
 100 INTERLACE CONTROL ATTACHED.

83850697 000 AA 9-SERIES R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT P VM
 010 AUTHOR XEROX
 020 850697-11A00 DESCRIPTION PRINTED
 030 850697-34A00 * SOURCE CARDS
 040 ABSTRACT TO ALLOW USE OF THE UNBUFFERED LINE PRINTER WITH THE STANDARD REAL-TIME FORTRAN II LOADER.
 050 COMMENTS SOURCE LANGUAGE: SYMBOL/META-SYMBOL, SIZE:3420 DECIMAL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH
 060 AT LEAST 8K MEMORY AND AN UNBUFFERED LINE PRINTER (XDS MODEL NO. 9372).

83850698 000 AA 9-SERIES XDS FORTRAN DEMONSTRATION PROGRAM P VM

010 AUTHOR XEROX
 020 ABSTRACT 850698-11A00 DESCRIPTION PRINTED
 030 COMMENTS 850698-34A00 * SOURCE CARDS
 040 MEMORY,

B3850699 000 AA 9-SERIES CALCOMP PLOTTER TEST D VM
 010 AUTHOR XEROX
 020 850699-11A00 DESCRIPTION PRINTED
 030 850699-34A00 * SOURCE CARDS
 040 850699-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
 060 COMMENTS SIZE 265 DECIMAL, CONFIGURATION: ANY 910/920 COMPUTER WITH XDS MODEL 9175-76 INCREMENTAL PLOTTER.

B3850701 000 AA 9-SERIES PROGRAM CORRECTION TAPE GENERATOR P VM
 010 AUTHOR XEROX
 020 850701-11A00 DESCRIPTION PRINTED
 030 850701-34A00 * SOURCE CARDS
 040 ABSTRACT TO AUTOMATE MODIFICATION OF OBJECT PROGRAMS.
 050 COMMENTS SIZE:447 DECIMAL, CONFIGURATION: ANY XDS 920 OR XDS 910 WITH PAPER TAPE PUNCH AND TYPEWRITER.

B3850702 000 AA 9-SERIES P + S REGISTER TESTER D VM
 010 AUTHOR XEROX
 020 850702-11A00 DESCRIPTION PRINTED
 030 850702-34A00 * SOURCE CARDS
 040 850702-51A00 LISTING PRINTED
 050 900019 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL
 060 ABSTRACT THIS PROGRAM EXERCISES THE P AND S REGISTERS AND THE DATA FLOW BETWEEN THE P,S AND C REGISTERS, BY
 070 ACCESSING EVERY CELL IN MEMORY NOT USED BY THE PROGRAM WITH A BRM OR A BRR WHILE TESTING FOR CORRECT
 080 RESPONSE AFTER THE ACCESS, THE IA FLIP-FLOP WHICH IS USED TO INCREMENT THE P AND C REGISTERS DURING BRM
 090 AND BRR IS ALSO RIGOROUSLY EXERCISED.
 100 COMMENTS THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM, MODEL NUMBER 850670.

B3850703 000 AA 9-SERIES 910/920/925 DIAGNOSTIC CONTROL PROGRAM D VM
 010 AUTHOR XEROX
 020 850703-11A00 DESCRIPTION PRINTED
 030 850703-44A00 * COMPRESSED CARDS
 040 850703-51A00 LISTING PRINTED
 050 ABSTRACT THE PURPOSE OF THIS DIAGNOSTIC CONTROL PROGRAM IS TO PROVIDE THE CONTROL INTERFACE, VIA THE TEST
 060 LANGUAGE INTERPRETER, FOR SUBROUTINES THAT DRIVE A PERIPHERAL DEVICE AND TO CONTROL SUBROUTINE

070 INTERACTIVE FUNCTIONS, BY DESCRIBING THE STRUCTURE OF THE TEST LANGUAGE THAT THE OPERATOR WILL USE IN
080 ACTIVATING THE DCP, THIS DOCUMENT PROVIDES THE OPERATOR WITH A PERIPHERAL-INDEPENDENT ON-LINE MEANS OF
090 DIRECTING THE SEQUENCE OF EVENTS PERFORMED UPON THE PERIPHERAL DEVICE. THIS PROGRAM IS ALSO A SOURCE
100 REFERENCE FOR DESCRIBING THE SUBROUTINES WHICH MUST BE ASSEMBLED WITH THE DCP, IF IT IS TO COMPRISE A
110 FREE-STANDING TEST PROGRAM.

B3850704 000 AA 9-SERIES DRUM, P.T. MEMORY BINARY COPY ROUTINE P VM
010 AUTHOR XEROX
020 850704-11A00 DESCRIPTION PRINTED
030 850704-34A00 * SOURCE CARDS
040 ABSTRACT TO COPY BINARY INFORMATION FROM MEMORY OR PAPER TAPE TO DRUM AND FROM DRUM TO PAPER TAPE.
050 COMMENTS SIZE:802 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTER WITH 2K MEMORY AND A DRUM.

B3850705 000 AA 9-SERIES GENERAL DRUM HANDLER P VM
010 AUTHOR XEROX
020 850705-11A00 DESCRIPTION PRINTED
030 850705-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A GENERAL METHOD OF WRITING AND READING FROM THE DRUM.
050 COMMENTS SIZE:309 DECIMAL, CONFIGURATION: ANY 910/920 COMPUTER WITH A XDS MAGNETIC DRUM MEMORY (MODEL 9161).

B3850706 000 AA 9-SERIES MOSELEY PLOTTER TEST PROGRAM P VM
010 AUTHOR XEROX
020 850706-11A00 DESCRIPTION PRINTED
030 850706-51A00 LISTING PRINTED
040 ABSTRACT PLOTS AN X-SHAPED CONFIGURATION OF POINTS TO TEST A PLOTTER
050 COMMENTS SIZE: 265 DECIMAL, CONFIGURATION: ANY XDS 910 OR 920 WITH MOSELEY PLOTTER.

B3850708 000 AA 9-SERIES FORTRAN II TYPE SUBR. (LONG CARRIAGE) P VM
010 AUTHOR XEROX
020 850708-11A00 DESCRIPTION PRINTED
030 850708-34A00 * SOURCE CARDS
040 ABSTRACT TO REPLACE THE STANDARD TYPE SUBROUTINE AND TAKE ADVANTAGE OF THE LONG CARRIAGE (130 CHARACTERS)
050 TYPEWRITER9
060 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE:59 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTERS WITH 4K MEMORY.

B3850711 000 AA 9-SERIES PRIORITY INTERRUPT TEST D VM
010 AUTHOR XEROX
020 850711-11A00 DESCRIPTION PRINTED
030 850711-84A00 ABSOLUTE BINARY CARDS

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

B3850712 000 AA 9-SERIES UNBUFFERED LINE PRINTER TEST PROGRAM D VM
010 AUTHOR XEROX
020 850712-11A00 DESCRIPTION PRINTED
030 850712-34A00 * SOURCE CARDS
040 850712-51A00 LISTING PRINTED
050 ABSTRACT TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9170 LINE PRINTER.

B3850716 000 AA 9-SERIES 9161 DRUM MEMORY TEST PROGRAM D VM
010 AUTHOR XEROX
020 850716-11A00 DESCRIPTION PRINTED
030 850716-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9161-N DRUM MEMORY SYSTEM.
050 COMMENTS SIZE 1817 DECIMAL, CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND AN XDS MODEL 9161-N DRUM MEMORY
060 SYSTEM AND AN INTERLACED W-BUFFER, THE 'N' SIGNIFIES THE SIZE OF THE DRUM.

B3850717 000 AA 9-SERIES 1622 CARD READ/PUNCH TEST PROGRAM D VM
010 AUTHOR XEROX
020 850717-11A00 DESCRIPTION PRINTED
030 850717-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 1622 CARD READ/PUNCH.
050 COMMENTS SOURCE LANGUAGE: SYMBOL 8, SIZE 474 DECIMAL, CONFIGURATION: ANY XDS 910 OR XDS 920 COMPUTER WITH
060 TYPEWRITER AND AN IBM 1622 CARD READER AND PUNCH.

B3850720 000 AA 9-SERIES POWER FAIL-SAFE INTERRUPT TESTER D VM
010 AUTHOR XEROX
020 850720-11A00 DESCRIPTION PRINTED
030 850720-34A00 * SOURCE CARDS
040 850720-51A00 LISTING PRINTED
050 ABSTRACT TO PROVIDE A PROGRAM TO TEST THE POWER FAIL-SAFE INTERRUPT SYSTEM.
060 COMMENTS CONFIGURATION: ANY 910, 920, OR 930.

B3850721 000 AA 9-SERIES ARM/DISARM FEATURE CHECKOUT D VM
010 AUTHOR XEROX
020 850721-11A00 DESCRIPTION PRINTED

030 850721-34A00 * SOURCE CARDS
 040 850721-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO CHECK OUT, THOROUGHLY, THE OPERATION OF THE ARM-DISARM FEATURE.
 060 COMMENTS SIZE 1652 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER, 1 TO 896 CHANNELS ICF SYSTEM
 070 INTERRUPTS AND THE ARM-DISARM FEATURE.

B3850722 000 AA 9-SERIES FRANKLIN PRINTER TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 850722-11A00 DESCRIPTION PRINTED
 030 850722-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE A MEANS OF TESTING THE FRANKLIN PRINTER FOR PROPER OPERATION.
 050 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE 867 DECIMAL, CONFIGURATION: ANY 910 OR 920 COMPUTER WITH 1,2, OR 3
 060 FRANKLIN PRINTERS AND PAPER TAPE I/O.

B3850724 000 AA 9-SERIES 9158 CATHODE-RAY TUBE DISPLAY TEST PROG. D VM
 010 AUTHOR XEROX
 020 850724-11A00 DESCRIPTION PRINTED
 030 850724-44A00 * COMPRESSED CARDS
 040 850724-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF
 060 THE OPTIONAL DEVICES SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
 070 COMMENTS SIZE 4095 DECIMAL, SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A MODEL
 080 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING ONE OF THE FOLLOWING CHANNEL CONFIGURATION: XDS 910 OR
 090 920: 24-BIT Y BUFFER OR PARALLEL INPUT-PARALLEL OUTPUT (PIN-POP) CONNECTOR, XDS 925 OR 930: IMCC
 100 WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR, A PAPER TAPE READER OR CARD READER
 110 ON CHANNEL W IS REQUIRED FOR PROGRAM LOADING, A TYPEWRITER ON CHANNEL W IS REQUIRED FOR
 120 OPERATOR-COMPUTER COMMUNICATION.

B3850725 000 AA 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD) D VM
 010 AUTHOR XEROX
 020 850725-11A00 DESCRIPTION PRINTED
 030 850725-51A00 850725-11 LISTING PRINTED
 040 850725-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RAD'S.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: AN XDS MODEL 910 OR 920 COMPUTER WITH A TYPEWRITER (NO. 1)
 070 ATTACHED TO THE W-BUFFER AND ONE OR MORE (9366) RAD'S ATTACHED TO A 24 BIT Y BUFFER WITH A 9521
 080 INTERLACE.

B3850726 000 AA 9-SERIES MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST D VM

010 AUTHOR XEROX
020 850726-11A00 DESCRIPTION PRINTED
030 850726-44A00 * COMPRESSED CARDS
040 850726-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THE PROGRAM IS DESIGNED TO VERIFY THE CAPABILITIES OF THE READER AND PUNCH MECHANISM AND ELECTRONICS. IT
060 IS SUGGESTED THAT THE APPROPRIATE 7-LEVEL PAPER TAPE TEST PROGRAM BE USED TO EXERCISE THE SPOILER
070 MECHANISM AND THE START-STOP CHARACTERISTICS OF THE PINCH ROLLER.
080 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE 861 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925 OR 930 COMPUTER WITH
090 A MINIMUM OF 2K OF MEMCRY, A TYPEWRITER, AND A MODEL 933 7- OR 8-LEVEL PAPER TAPE READER AND PUNCH,
100 CONNECTED AS UNIT NUMBER 1 AND 2 TO A W OR Y BUFFER, INTERLACE IS NOT USED.

B3850727 000 AA 9-SERIES 9185 CATHODE RAY TUBE DISPLAY UNIT/S RE1 D VM
010 AUTHOR XEROX
020 850727-11A00 DESCRIPTION PRINTED
030 850727-44A00 * COMPRESSED CARDS
040 ABSTRACT TO PROVIDE A MEANS OF CHECKOUT AND ADJUSTMENT OF THE OSCILLOSCOPE COUPLER, DISPLAY UNIT, AND REFRESH
050 MEMORY.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 910 COMPUTER WITH A MODEL 9185 CRT + STE-10 REFRESH
070 MEMORY ATTACHED TO THE Y BUFFER. THE PROGRAM REQUIRES INTERLACE FEATURE TO BE PRESENT. A PAPER TAPE
080 READER OR CARD READER ATTACHED TO THE W BUFFER IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ATTACHED TO
090 THE W BUFFER IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.

B3850739 000 AA 9-SERIES ANALOG COMPARISON TEST D VM
010 AUTHOR XEROX
020 850739-11A00 DESCRIPTION PRINTED
030 850739-34A00 * SOURCE CARDS
040 ABSTRACT INPUTS TEN SETS OF ANALOG DATA AT A 400 CYCLE RATE AND COMPARES LAST NINE DATA SETS WITH THE INITIAL
050 DATA SET.
060 COMMENTS SIZE: 260 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER, AN AD10-9 ANALOG TO DIGITAL
070 CONVERTER, MU31-4 20-CHANNEL MULTIPLEXER, AND 9128 PRIORITY INTERRUPT CONTROL.

B3850740 000 AA 920 SEISMIC DUMP A AND B FORMATS P VM
010 AUTHOR XEROX
020 850740-11A00 DESCRIPTION PRINTED
030 850740-24A00 RELOCATABLE BINARY CARDS
040 850740-44A00 * COMPRESSED CARDS
050 850740-51A00 LISTING PRINTED
060 ABSTRACT XDS 920 SEISMIC TAPE DUMP PROGRAMS FOR 9 TRACK GAPPED OR GAPLESS TAPES WITH A OR B FORMAT. THE OUTPUT
070 FROM THESE PROGRAMS IS UTILIZED FOR VERIFICATION OF SEISMIC DATA TAPES.

080 COMMENTS FOUR SEISMIC TAPE DUMP PROGRAMS ARE PROVIDED, ONE FOR EACH OF THE INPUT TAPE FORMATS; A FCHMAT GAPPED
090 AFORMAT GAPLESS BFORMAD GAPPED B FORMAT GAPLESS

B3850741 000 AA 930 PATCH, PROGRAMMED ANALUG TOTAL CHECK D VM
010 AUTHOR XEROX
020 850741-11A00 DESCRIPTION PRINTED
030 850741-24A00 RELOCATABLE BINARY CARDS
040 850741-44A00 * COMPRESSED CARDS
050 850741-51A00 LISTING PRINTED
060 ABSTRACT THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR
070 VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG
080 COMPONENT DIAGNOSTICS.
090 COMMENTS SOURCE LANGUAGE: META-SYMBOL. CONFIGLRATION: 900 SERIES REAL-TIME MONITOR

B3850742 000 AA 930 DEE-6D SIMULATOR SYSTEM HANDLERS P VM
010 AUTHOR XEROX
020 850742-11A00 DESCRIPTION PRINTED
030 850742-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A SOFTWARE INTERFACE TO THE SYSTEM HARDWARE.
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-6D HARDWARE.

B3850743 000 AA 910 JPL HSDL TEST PROGRAM D MM
010 AUTHOR XEROX
020 850743-11A00 DESCRIPTION PRINTED
030 850743-34A00 * SOURCE CARDS
040 850743-51A00 LISTING PRINTED
050 ABSTRACT THE PROGRAM TESTS THE TRANSFER OF DATA TO AND FROM THE HSDL UNIT VIA THE COMPUTER'S POT AND PIN LINES.
060 DATA WORDS ARE SENT OUT AND COMPARED WITH THE WORDS RETURNED. IF THE TWO ARE NOT IDENTICAL, AN ERROR
070 MESSAGE IS PRINTED. THE PROGRAM IS SELF-LOADING.
080 COMMENTS OPTIONS ARE PROVIDED TO SEND 24 BIT OR 12 BIT PSEUDO-RANDOM NUMBERS OR TO ALLOW OPERATOR INPUT OF DATA
090 WORDS.

B3850744 000 AB 920 JPL HSDL COUPLER EXERCISER D VM
010 AUTHOR XDS DATA SYSTEMS
020 850744-11A00 DESCRIPTION PRINTED
030 850744-44B00 * COMPRESSED CARDS
040 ABSTRACT EXERCISES THE JPL ASDL COUPLER IN TEST MODE BY REPEATEDLY TRANSMITTING, RECEIVING, AND COMPARING A
050 SYNCH-HEADER WORD AND A DATA WORD. BOTH WORDS CAN BE VARIED BY THE OPERATOR. COMPARISON, INTERRUPT, AND
060 SKS ERRORS ARE REPORTED ON THE TYPEWRITER.

070 COMMENTS CONFIGURATION: ASDL, PAPER TAPE READER, TELETYPE AND 910 OR 920 COMPUTER.

B3850754 000 AB 900-SERIES ADAPT COMPILER P VM UPDATED LAST RUN
010 AUTHOR XEROX
020 850754-11800 DESCRIPTION PRINTED
030 ABSTRACT ADAPT IS A SYSTEM FOR THE COMPUTER-ASSISTED PROGRAMMING OF NUMERICALLY CONTROLLED MACHINE TOOLS, FLAME
040 CUTTERS, DRAFTING MACHINES, AND SIMILAR EQUIPMENT, IT IS PRODUCTION ORIENTED, THAT IS, IT IS WRITTEN TO
050 SIMPLIFY THE EFFORT, TIME, AND MONEY NEEDED TO TAKE FULL ADVANTAGE OF NUMERICALLY CONTROLLED TECHNIQUES
060 IN ENGINEERING AND MANUFACTURING.
070 COMMENTS SOURCE LANGUAGE: FORTRAN II. CONFIGURATION: ANY XDS 900 SERIES COMPUTER, MONARCH OPERATING SYSTEM
080 CONFIGURATION WITH AT LEAST 16K CORE MEMORY, 3 MAGNETIC TAPES A TYPEWRITER A CARD READER, A LINE
090 PRINTER. (BUFFERED OR UNBUFFERED) AND AN 8-LEVEL PAPER TAPE PUNCH. (OR RAD MONARCH CONFIGURATION).
100 *****MASTER TAPE DAMAGED - DELETED 06/80*****

B3850755 000 AA 925 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER D MM
010 AUTHOR XEROX
020 850755-11A00 DESCRIPTION PRINTED
030 850755-44A00 * COMPRESSED CARDS
040 850755-51A00 LISTING PRINTED
050 850755-84A00 ABSOLUTE BINARY CARDS
060 ABSTRACT PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER
070 CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES,
080 SKS'S AND EMOS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
090 COMMENTS MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL
100 95489 9TRACK MAGNETIC TAPE SYSTEMS

B3850765 000 AA 910 910/925 PROGRAM OPERATOR PACKAGE (COVER) P MM
010 AUTHOR XEROX
020 850765-11A00 DESCRIPTION PRINTED
030 850765-35A00 850095-35 SOURCE MAG TAPE, 7 CHANNELS
040 900018 910/925 PROGRAMMED OPERATORS TECH MANUAL
050 ABSTRACT THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900018,
060 (910/925 PROGRAM OPERATOR TECHNICAL MANUAL)
070 COMMENTS SEE THE TECH MANUAL (900018) FOR THE COMPUTER CONFIGURATION.

B3850808 000 AA 9-SERIES 910/925 FORTRAN II SYSTEM (STAND ALONE) P VM
010 AUTHOR XEROX
020 850808-11A00 DESCRIPTION PRINTED
030 850808-35A00 850210-35 SOURCE MAG TAPE, 7 CHANNELS

040 900003 900 SERIES FORTRAN II REFERENCE MANUAL
 050 900587 900 SERIES FORTRAN II OPERATIONS MANUAL
 060 ABSTRACT THIS PROGRAM INCLUDES THE FOLLOWING: TITLES: 910 FORTRAN II COMPILER PERFORMATED TAPE INPUT, 910 FORTRAN
 070 II LIBRARY PERFORATED TAPE INPUT, 910 FORTRAN II RUN-TIME PERFORATED TAPE INPUT, AND FORTRAN II
 080 LOADER-PAPER TAPE VERSION.
 090 COMMENTS SEE MANUAL 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL 900587, 900 SERIES FORTRAN II
 100 OPERATIONS MANUAL. SIZE:4096 DECIMAL.

B3850816 000 AA 9-SERIES 910/925 ALGOL 60 BASIC 4K SYSTEM P VM
 010 AUTHOR XEROX
 020 850816-11A00 DESCRIPTION PRINTED
 030 850816-44A00 * COMPRESSED CARDS
 040 900699 XDS ALGOL 60 REFERENCE MANUAL
 050 ABSTRACT TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: 910/925 COMPUTER WITH AT LEAST 4K MEMORY, TYPEWRITER AND
 070 PAPER TAPE I/O, SEE MANUAL NO, 900699.

B3850830 000 AA 9-SERIES 910/925 R.T. FORTRAN II (S/A) SYSTEM P VM
 010 AUTHOR XEROX
 020 850830-11A00 DESCRIPTION PRINTED
 030 850830-35A00 850400-35 SOURCE MAG TAPE, 7 CHANNELS
 040 901048 920/930 REAL TIME FORTRAN II TECHNICAL
 050 900003 900 SERIES FORTRAN II REFERENCE MANUAL,
 060 900587 900 SERIES FORTRAN II OPERATIONS MANUAL,
 070 ABSTRACT TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. THE COMPILER, LOADER, AND
 080 RUN-TIME ARE ALL DISTRIBUTED ON A SINGLE ABSOLUTE BINARY PAPER TAPE.
 090 COMMENTS SOURCE LANGUAGE: SYMBOL, META-SYMBOL, SIZE 8000 DECIMAL, CONFIGURATION: ANY 900 SERIES COMPUTER WITH AT
 100 LEAST 8000 WORDS OF MEMCRY. SEE MANUALS 901048, 900003, AND 900587, THIS PROGRAM INCLUDES THE R.T.
 110 FORTRAN II COMPILER, LCADER AND RUN-TIME.

B3850831 000 AA 9-SERIES XDS PINT 910-BUFFERED PRINT P VM
 010 AUTHOR XEROX
 020 850831-11A00 901023 DESCRIPTION PRINTED
 030 850831-34A00 * SOURCE CARDS
 040 850831-84A00 ABSOLUTE BINARY CARDS
 050 901023 XDS PINT REFERENCE MANUAL
 060 ABSTRACT XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER .
 070 COMMENTS SEE MANUAL NO, 901023, XDS PINT REFERENCE MANUAL.

B3850832 000 AA 9-SERIES XDS 910 PINT-UNBUFFERED PRINT P VM
 010 AUTHOR XEROX
 020 850832-11A00 901023 DESCRIPTION PRINTED
 030 850832-34A00 * SOURCE CARDS
 040 850832-84A00 ABSOLUTE BINARY CARDS
 050 901023 XDS PINT REFERENCE MANUAL
 060 ABSTRACT XDS VERSION OF THE PURDUE INTERPRETER, THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER.
 070 COMMENTS SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.

B3850833 000 AA 9-SERIES XDS 910/925 FORTRAN II FORMAT STATEMENTS P VM
 010 AUTHOR XEROX
 020 850833-11A00 DESCRIPTION PRINTED
 030 850833-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
 050 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE 39 DECIMAL, CONFIGURATION: ANY XDS 910/925 COMPUTER, THIS MODIFICATION IS
 060 APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850835 000 AA 9-SERIES 910/925 FORTRAN II CARD INPUT MOD. P VM
 010 AUTHOR XEROX
 020 850835-11A00 DESCRIPTION PRINTED
 030 850835-34A00 * SOURCE CARDS
 040 ABSTRACT TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
 050 COMMENTS SIZE:10 DECIMAL, CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER, THIS MODIFICATION IS APPLICABLE
 060 ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850836 000 AA 9-SERIES 910/925 FORTRAN II CARD PUNCH TAPE MOD. P VM
 010 AUTHOR XEROX
 020 850836-11A00 DESCRIPTION PRINTED
 030 850836-34A00 * SOURCE CARDS
 040 ABSTRACT TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT
 050 CONTROL.
 060 COMMENTS SIZE 71 DECIMAL, CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER, THIS MODIFICATION IS APPLICABLE
 070 ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850841 000 AA 9-SERIES 910/925 FORTRAN II MAG TAPE OUTPUT MOD. P VM
 010 AUTHOR XEROX
 020 850841-11A00 DESCRIPTION PRINTED
 030 850841-34A00 * SOURCE CARDS
 040 ABSTRACT TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.

050 COMMENTS SIZE 371 DECIMAL, CONFIGURATION; ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE, THIS MODIFICATION IS
060 APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM,

B3850842 000 AA 9-SERIES 910/925 F-II M.T. PAPER TAPE OUTPUT MOD P VM
010 AUTHOR XEROX
020 850842-11A00 DESCRIPTION PRINTED
030 850842-34A00 * SOURCE CARDS
040 ABSTRACT TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL,
050 COMMENTS ASSEMBLY LANGUAGE USED: SYMBOL 8, SIZE 442 DECIMAL, CONFIGURATION; ANY XDS 910 COMPUTER WITH A MAGNETIC
060 TAPE UNIT. THIS MODIFICATION IS APPLICABLE ONLY TO THE STANDALONE FORTRAN II SYSTEM.

B3850848 000 AA 9-SERIES 910/925 SORT MERGE (COVER) P VM
010 AUTHOR XEROX
020 850848-11A00 901044 DESCRIPTION PRINTED
030 850848-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS
040 850848-84A00 ABSOLUTE BINARY CARDS
050 900997 XDS SORT/MERGE REFERENCE MANUAL
060 901044 SORT/MERGE TECHNICAL MANUAL 9SERIES/9300 COMPUTERS
070 ABSTRACT THIS NUMBER COVERS CATALOG NUMBERS 850849 (910/925 SORT) AND 850850 (910/925 MERGE). IT PROVIDES A
080 COMPREHENSIVE SORTING CAPABILITY FOR 910/925 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON
090 CARDS. SEE XDS REFERENCE MANUAL 90097 FOR DESCRIPTION OF USE.
100 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM, PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
110 PROGRAM IS WRITTEN IN METASYMBOL.
120 SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE
130 TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.

B3850857 000 AA 9-SERIES 910/925 FORTRAN II BUFFERED PRT. MOD. P VM
010 AUTHOR XEROX
020 850857-11A00 DESCRIPTION PRINTED
030 850857-34A00 * SOURCE CARDS
040 ABSTRACT TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
050 COMMENTS SIZE:53 DECIMAL, CONFIGURATION; ANY XDS 910 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173). THIS
060 MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850858 000 AA 9-SERIES 910/925 FORTRAN II FAST LISTING MOD. P VM
010 AUTHOR XEROX
020 850858-11A00 DESCRIPTION PRINTED
030 850858-34A00 * SOURCE CARDS
040 ABSTRACT TO IMPROVE THE SPEED WHEN LISTING FORTRAN SOURCE PROGRAMS DURING COMPILATION.

050 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE:4 DECIMAL, CONFIGURATION: ANY XDS 910/925 WITH A LINE PRINTER, THIS
060 MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850859 000 AA 9-SERIES 910/925 FORTRAN II UNBUFFERED PRTR,MOD. P VM
010 AUTHOR XEROX
020 850859-11A00 DESCRIPTION PRINTED
030 850859-34A00 * SOURCE CARDS
050 ABSTRACT TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
060 COMMENTS SIZE 124 DECIMAL, CONFIGURATION: ANY XDS 910/925 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO.
070 9372). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850862 000 AA 9-SERIES 910 FORTRAN DRUM LINKING SYSTEM P VM
010 AUTHOR XEROX
020 850862-11A00 DESCRIPTION PRINTED
030 850862-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE THE STANDARD 910 FORTRAN SYSTEM WITH THE DRUM LINKING CAPABILITY.
050 COMMENTS CONFIGURATION: ANY 910 COMPUTER WITH 4K OF MEMORY AND A DRUM (XDS 9161).

B3850864 000 AA 9-SERIES FORTRAN II DRUM HEAD/WRITE MODIFICATION P VM
010 AUTHOR XEROX
020 850864-11A00 DESCRIPTION PRINTED
030 850864-34A00 * SOURCE CARDS
040 ABSTRACT ALLOWS THE USE OF DRUM READ/*WRITE STATEMENTS IN A FORTRAN PROGRAM.
050 COMMENTS SIZE:33 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161). THIS
060 MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

B3850901 000 AA 9-SERIES 910/925 STANDARD ANALOG TEST PROGRAM D VM
010 AUTHOR XEROX
020 850901-11A00 DESCRIPTION PRINTED
030 850901-44A00 * COMPRESSED CARDS
040 ABSTRACT TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 12288, CONFIGURATION: ANY 910/925 WITH ASSOCIATED ANALOG I/O
060 EQUIPMENT, TYPEWRITER AND PAPER TAPES I/O.

B3850914 000 AA 9-SERIES LINEAR INTERPOLATION-1 INDEPENDENT VARI P VM
010 AUTHOR XEROX
020 850914-11A00 DESCRIPTION PRINTED
030 850914-24A00 RELOCATABLE BINARY CARDS
040 850914-44A00 * COMPRESSED CARDS

050 ABSTRACT TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHTLINE INTERPOLATION IN A TABLE OF X, F(X) PAIRS,
060 WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
070 COMMENTS SIZE 23 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

B3850915 000 AA 9-SERIES LINEAR INTERPOLATION-2 INDEPENDENT VARI P VM
010 AUTHOR XEROX
020 850915-11A00 DESCRIPTION PRINTED
030 850915-24A00 RELOCATABLE BINARY CARDS
040 850915-44A00 * COMPRESSED CARDS
050 ABSTRACT TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF
060 X, Y, F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
070 COMMENTS SIZE 74 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

B3850916 000 AA 9-SERIES LINEAR INTERPOLATION-3 INDEPENDENT VARI P VM
010 AUTHOR XEROX
020 850916-11A00 DESCRIPTION PRINTED
030 850916-44A00 * COMPRESSED CARDS
040 ABSTRACT TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A
050 TABLE OF X,Y, Z F (X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
060 COMMENTS SIZE 135 DECIMAL. SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 920/930.

B3850919 000 AA 920 920/930 PROGRAMMED OPERATOR PACKAGE P MM
010 AUTHOR XEROX
020 850919-35A00 850095-35 SOURCE MAG TAPE, 7 CHANNELS
030 900020 920/930 PROGRAMMED OPERATORS TECH MANUAL
040 ABSTRACT THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900020,
050 (920/930 PROGRAM OPERATOR TECHNICAL MANUAL).
060 COMMENTS SEE THE TECH MANUAL (900020) FOR THE COMPUTER CONFIGURATION.

B3850957 000 AA 9-SERIES 920/930 FORTRAN II SYSTEM (STAND ALONE) P VM
010 AUTHOR XEROX
020 850957-11A00 DESCRIPTION PRINTED
030 850957-84A00 ABSOLUTE BINARY CARDS
040 850957-35A00 850315-35 SOURCE MAG TAPE, 7 CHANNELS
050 900587 900 SERIES FORTRAN II OPERATIONS MANUAL
060 900003 900 SERIES FORTRAN II REFERENCE MANUAL
070 ABSTRACT THIS IS THE STAND-ALONE 920/930 FORTRAN-II PACKAGE CONSISTING OF COMPILER, LOADER AND RUN-TIME/LIBRARY
080 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE 4096 DECIMAL. THIS PROGRAM COVERS 850958, 850959, 850960. SEE MANUALS 900587,
090 900 SERIES FORTRAN II OPERATIONS, 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND 901048, 900 SERIES

100 FORTRAN II TECHNICAL MANUAL, CONFIGURATION: ANY 920/930 COMPUTER,

B3850963 000 AA 9-SERIES FORTRAN II FORMATS-AT RUN-TIME MOD. P VM
010 AUTHOR XEROX
020 850963-11A00 DESCRIPTION PRINTED
030 850963-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
050 COMMENTS SOURCE LANGUAGE:SYMBOL, SIZE:39 DECIMAL, CONFIGURATION:ANY 920 /930 COMPUTER.

B3850964 000 AA 9-SERIES FORTRAN-9 CONTINUATION CARD MODIFICATION P VM
010 AUTHOR XEROX
020 850964-11A00 DESCRIPTION PRINTED
030 850964-34A00 * SOURCE CARDS
040 ABSTRACT ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
050 COMMENTS SIZE:190 DECIMAL, ANY 920/930 COMPUTER.

B3850965 000 AA 9-SERIES FORTRAN II MODIFICATION LOADER P VM
010 AUTHOR XEROX
020 850965-11A00 DESCRIPTION PRINTED
030 850965-34A00 * SOURCE CARDS
040 ABSTRACT TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
050 COMMENTS SIZE:277 DECIMAL, CONFIGURATION:ANY 920/930 COMPUTER.

B3850967 000 AA 9-SERIES FORTRAN HOLLERITH LITERALS MODIFICATION P VM
010 AUTHOR XEROX
020 850967-11A00 DESCRIPTION PRINTED
030 850967-34A00 * SOURCE CARDS
040 ABSTRACT ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENT.
050 COMMENTS SIZE:50 DECIMAL, CONFIGURATION: ANY 920/930 COMPUTER.

B3850968 000 AA 9-SERIES GO MO KU P VM
010 AUTHOR XEROX
020 850968-11A00 DESCRIPTION PRINTED
030 850968-34A00 * SOURCE CARDS
040 850968-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
050 ABSTRACT GO MO KU IS A SELF-CONTAINED COMPUTER PROGRAM WHICH ENABLES THE COMPUTER TO PLAY GO MO KU (5 IN A ROW,
060 THE RULES OF THE GAME ARE BEST DESCRIBED BY COMPARING IT WITH TIC-TAC-TOE. IF TICTAC-TOE IS DEFINED AS
070 A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 3 IN A ROW ON A 3 BY 3 BOARD, THEN GO MO KU IS A GAME
080 IN WHICH THE OBJECT IS FOR A PLAYER TO GET 5 IN A ROW ON A 15 BY 15 BOARD.

090 COMMENTS SIZE:4096 DECIMAL, CONFIGURATION: 4K XDS 920,

B3850970 000 AA 9-SERIES 920/930 ALGOL 60 BASIC 4K SYSTEM (COVER) P VM
010 AUTHOR XEROX
020 850970-11A00 900699 DESCRIPTION PRINTED
030 850970-44A00 * COMPRESSED CARDS
040 900699 ALGOL 60 REFERENCE MANUAL
050 900694 ALGOL 60 TECHNICAL MANUAL,
060 XDS 900 SERIES/9300 COMPUTERS
070 ABSTRACT TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM,
080 COMMENTS THIS IS THE STAND-ALONE ALGOL SYSTEM CONSISTING OF COMPILER, LOADER AND LIBRARY/RUNTIME.

B3850985 000 AA 9-SERIES PINT 920/930 BUFFERED PRINT P VM
010 AUTHOR XEROX
020 850985-34A00 * SOURCE CARDS
030 850985-84A00 ABSOLUTE BINARY CARDS
040 901023 PINT REFERENCE MANUAL
050 ABSTRACT XDS VERSION OF THE PURDUE INTERPRETER, THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER,
060 COMMENTS SEE MANUAL NO,901023, XDS REFERENCE MANUAL.

B3850986 000 AA 9-SERIES PINT 920/930 UNBUFFERED PRINT P VM
010 AUTHOR XEROX
020 850986-34A00 * SOURCE CARDS
030 850986-84A00 ABSOLUTE BINARY CARDS
040 901023 PINT REFERENCE MANUAL
050 ABSTRACT XDS VERSION OF THE PURDUE INTERPRETER, THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER (9372),
060 COMMENTS SEE MANUAL NO,901023,XDS REFERENCE MANUAL.

B3850989 000 AA 9-SERIES 920/930 FCRT II CARD/PAPER TAPE INPT MOD P VM
010 AUTHOR XEROX
020 850989-11A00 DESCRIPTION PRINTED
030 850989-34A00 * SOURCE CARDS
040 850989-51A00 LISTING PRINTED
050 ABSTRACT TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT
060 CONTROL,
070 COMMENTS SIZE 57 DECIMAL, CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.

B3850990 000 AA 9-SERIES 920/930 FORTRAN II CARD INPUT MOD, P VM
010 AUTHOR XEROX

020 850990-11A00 DESCRIPTION PRINTED
 030 850990-34A00 * SOURCE CARDS
 040 ABSTRACT TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
 050 COMMENTS SIZE: 8 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.

B3850991 000 AA 9-SERIES 920/930 FORTRAN II CARD OUTPUT MOD. P VM
 010 AUTHOR XEROX
 020 850991-11A00 DESCRIPTION PRINTED
 030 850991-34A00 * SOURCE CARDS
 040 ABSTRACT TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS.
 050 COMMENTS SOURCE LANGUAGE: META/SYMBOL, SIZE: 120 DECIMAL, CONFIGURATION: ANY 920/930 COMPUTER WITH CARD PUNCH.

B3850992 000 AA 9-SERIES 920/930 FORTRAN II MAG TAPE INPUT MOD. P VM
 010 AUTHOR XEROX
 020 850992-11A00 DESCRIPTION PRINTED
 030 850992-34A00 * SOURCE CARDS
 040 850992-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS MODIFICATION TO THE XDS 920 FORTRAN II COMPILER REPLACES THE PAPER TAPE INPUT CODING WITH CODING TO
 060 INPUT SOURCE CARD IMAGES FROM MAGNETIC TAPE, LOGICAL, UNIT NO. 2.
 070 COMMENTS SIZE 133 DECIMAL. CONFIGURATION: ANY 920 COMPUTER WITH A MAGNETIC TAPE UNIT.

B3851006 000 AA 9-SERIES 920/930 SORT MERGE (COVER) P MM
 010 AUTHOR XEROX CORPORATION
 020 851006-11A00 901044 DESCRIPTION PRINTED
 030 851006-45A00 850848-45 COMPRESSED MAG TAPE, 7 CHANNELS
 040 851006-84A00 850848-84 ABSOLUTE BINARY CARDS
 050 900997 SORT/MERGE REFERENCE MANUAL
 060 901044 SORT/MERGE TECHNICAL MANUAL
 070 ABSTRACT THIS NUMBER COVERS CATALOG NUMBERS 851007 (920/930 SORT) AND 851008 (920/930 MERGE). IT PROVIDES A
 080 COMPREHENSIVE SORTING CAPABILITY FOR 920/930 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS.
 090 SEE XDS REFERENCE MANUAL 900997 FOR DESCRIPTION OF USE.
 100 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
 110 PROGRAM IS WRITTEN IN METASYMBOL.
 120 SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE
 130 UNITS, ONE CARD READER, AND ONE TYPEWRITER.

B3851010 000 AA 9-SERIES PAYROLL GENERATOR P VM
 010 AUTHOR XEROX
 020 851010-11A00 DESCRIPTION PRINTED

030 851010-45A00 851220-45 COMPRESSED MAG TAPE, 7 CHANNELS
040 ABSTRACT TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED ON AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.
050 THIS PROGRAM WORKS ONLY UNDER MANAGE.

B3851012 000 AA 9-SERIES BLUFFERED LINE PRINTER TRACE P VM
010 AUTHOR XEROX
020 851012-11A00 DESCRIPTION PRINTED
030 851012-34A00 850000-35 SOURCE CARDS
040 851012-44A00 * COMPRESSED CARDS
050 ABSTRACT TO ALLOW EXECUTION OF ALMOST ALL OBJECT PROGRAM INSTRUCTIONS AND PRODUCE A LINE PRINTER LISTING OF THE
060 DESIRED INSTRUCTIONS IN SEQUENCE OF THEIR EXECUTION ALONG WITH THE INTERMEDIATE RESULTS.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 544 DECIMAL, CONFIGURATION: ANY 920 OR 930 WITH LINE PRINTER.
080 RELOCATABLE BINARY CARDS ALSO AVAILABLE ON 930 RAD MONARCH SYSTEM

B3851014 000 AA 9-SERIES 920/930 RTF II INBUF, PRT. COMPILER MOD P VM
010 AUTHOR XEROX
020 851014-11A00 DESCRIPTION PRINTED
030 851014-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE AN UNBUFFERED PRINTER CAPABILITY FOR THE 920/930 REAL TIME FORTRAN II COMPILER.
050 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE: 64 DECIMAL, CONFIGURATION ANY 920/930 COMPUTER WITH 8K (OR MORE) MEMORY
060 AND A MODEL 9372 UNBUFFERED PRINTER ON CHANNEL A.

B3851017 000 AA 9-SERIES 920/930 FORTRAN II COMPILER UNBUF. PRT. P VM
010 AUTHOR XEROX
020 851017-11A00 DESCRIPTION PRINTED
030 851017-34A00 * SOURCE CARDS
040 ABSTRACT TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
050 COMMENTS SIZE: 80 DECIMAL, CONFIGURATION: ANY 920/930 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).

B3851019 000 AA 9-SERIES 92 SIMULATOR P VM
010 AUTHOR XEROX
020 851019-44A00 * COMPRESSED CARDS
030 851019-51A00 LISTING PRINTED
040 ABSTRACT TO PROVIDE THE FUTURE 92 USER WITH THE FACILITY TO DEBUG HIS 92 PROGRAMS PRIOR TO TAKING DELIVERY OF HIS
050 MACHINE, A COMPLETE SET OF DEBUGGING AIDS IS INCLUDED.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 6644 DECIMAL, CONFIGURATION, ANY 920 WITH A TYPEWRITER AND WITH AT
070 LEAST 8K MEMORY, A LINE PRINTER IS REQUIRED FOR TRACE AND DUMP OPTICNS.

B3851026 000 AA 9-SERIES FORTRAN DRUM READ/WRITE STATEMENTS P VM

010 AUTHOR XEROX
 020 851026-11A00 DESCRIPTION PRINTED
 030 851026-34A00 * SOURCE CARDS
 040 ABSTRACT ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
 050 COMMENTS SIZE 27 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161).

B3851027 000 AA 920 JPL TCP ANALOG EQUIPMENT DEMONSTRATION P VM
 010 AUTHOR XEROX
 020 851027-11A00 DESCRIPTION PRINTED
 030 851027-44A00 * COMPRESSED CARDS
 040 851027-51A00 LISTING PRINTED
 050 ABSTRACT THIS PROGRAM IS DESIGNED TO DEMONSTRATE AND CALIBRATE THE JPL TCP ANALOG EQUIPMENT EXPANSION KITS.

B3851047 000 AA 9-SERIES DOUBLE PRECISION FLOATING POINT POP P VM
 010 AUTHOR XEROX
 020 851047-11A00 DESCRIPTION PRINTED
 030 851047-24A00 RELOCATABLE BINARY CARDS
 040 851047-34A00 * SOURCE CARDS
 050 ABSTRACT TO SIMULATE THE OPERATION OF FLOATING POINT INSTRUCTIONS ON THE XDS 930.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 233 DECIMAL. CONFIGURATION: ANY XDS 930 COMPUTER.

B3851048 000 AA 9-SERIES 930 EXAMINER DIAGNOSTIC SYSTEM (COVER) D VM
 010 AUTHOR XEROX
 020 851048-11A00 900097 DESCRIPTION PRINTED
 030 851048-34A00 * SOURCE CARDS
 040 851048-84A00 ABSOLUTE BINARY CARDS
 050 900097 XDS 930 COMPUTER EXAMINER DIAGNOSTIC
 060 SYSTEM TECHNICAL MANUAL, VOL. I + II
 070 ABSTRACT SEE MANUAL NO. 900097: 920/930 EXAMINER DIAGNOSTIC TECHNICAL MANUAL VOL. I AND II.
 080 COMMENTS THIS PROGRAM COVERS CATALOG NO. S 851049, 851050 AND 851051.

B3851049 000 AA 9-SERIES 930 EXAMINER MEMORY DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 851049-11A00 900097 DESCRIPTION PRINTED
 030 851049-84A00 851048-84 ABSOLUTE BINARY CARDS
 040 900097 XDS 930 COMPUTER EXAMINER DIAGNOSTIC
 050 SYSTEM TECHNICAL MANUAL, VOL. I + II
 060 ABSTRACT TO EXERCISE MEMORY WITH A CHECKERBOARD MEMORY WORD PATTERN TO MONITOR MEMORY FOR ERRORS AND AID IN
 070 DIAGNOSING MEMORY FAILURES.

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

B3851050 000 AA 9-SERIES 930 EXAMINER INSTRUCTION DIAGNOSTIC D VM
010 AUTHOR XEROX
020 851050-11A00 900097 DESCRIPTION PRINTED
030 851050-84A00 851048-84 ABSOLUTE BINARY CARDS
040 900097 XDS 930 COMPUTER EXAMINER DIAGNOSTIC
050 SYSTEM TECHNICAL MANUAL, VOL. I + II
060 ABSTRACT TO AID IN DIAGNOSING COMPUTER FAULTS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
070 COMMENTS SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER, CONFIGURATION: XDS 930 THIS PROGRAM IS PART OF CATALOG NO. 851048
080 (COVER), SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. I + II,

B3851051 000 AA 9-SERIES 930 EXAMINER P AND S REGISTER TESTER D VM
010 AUTHOR XEROX
020 851051-11A00 900097 DESCRIPTION PRINTED
030 851051-84A00 851048-84 ABSOLUTE BINARY CARDS
040 900097 XDS 930 COMPUTER EXAMINER DIAGNOSTIC
050 SYSTEM TECHNICAL MANUAL, VOL. I + II
060 ABSTRACT TO EXERCISE THE P AND S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE
070 'MARK' OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT
080 LOCATION. THEREFORE, THE TEST CHECK WHETHER THE P AND S REGISTERS FUNCTIONED PROPERLY.
090 COMMENTS SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER, CONFIGURATION: XDS 930, THIS PROGRAM IS PART OF CATALOG NO. 851048
100 (COVER), SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL, VOL. I + II,

B3851052 000 AA 9-SERIES 930 BIG MEMORY ADDRESSING TEST D VM
010 AUTHOR XEROX
020 851052-11A00 DESCRIPTION PRINTED
030 851052-34A00 * SOURCE CARDS
040 851052-51A00 LISTING PRINTED
050 ABSTRACT THIS DIAGNOSTIC VERIFIES THE ABILITY OF A 930 (20K OR LARGER) TO UNIQUELY ACCESS EVERY LOCATION IN CORE
060 VIA BOTH THE 'MEMORY EXTENSION REGISTERS' AND THE '91903 MEMORY ADDRESS EXTENSION' OPTION.

B3851054 000 AA 9-SERIES MTE-1 MAGNETIC TAPE EXERCISER D VM
010 AUTHOR XEROX
020 851054-11A00 DESCRIPTION PRINTED
030 851054-24A00 RELOCATABLE BINARY CARDS
040 851054-44A00 * COMPRESSED CARDS
050 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS

060 AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO
070 TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES
080 OVER THE TAPE.
090 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 6120 DECIMAL, CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED
100 W BUFFER TELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND AN MTE-1 MAGNETIC TAPE TRANSPORT CONNECTED
110 TO THE W BUFFER.

B3851055 000 AA 9-SERIES MTE-3 MAG TAPE EXERCISUR, 3 CHAR MODE D VM
010 AUTHOR XEROX
020 851055-11A00 DESCRIPTION PRINTED
030 851055-44A00 * COMPRESSED CARDS
040 851055-51A00 851055-11 LISTING PRINTED
050 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE THE MAG TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND
060 THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO
070 TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES
080 OVER THE TAPE.
090 COMMENTS SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER TELETYPE
100 TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

B3851056 000 AA 9-SERIES MTE 3 MAG TAPE EXERCISUR 4 CHAR MODE D VM
010 AUTHOR XEROX
020 851056-11A00 DESCRIPTION PRINTED
030 851056-44A00 * COMPRESSED CARDS
040 851056-51A00 851056-11 LISTING PRINTED
050 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS
060 AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO
070 TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES
080 OVER THE TAPE.
090 COMMENTS SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER, AND A
100 MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.

B3851057 000 AA 9-SERIES MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST D VM
010 AUTHOR XEROX
020 851057-11A00 DESCRIPTION PRINTED
030 851057-44A00 * COMPRESSED CARDS
040 ABSTRACT TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE 369 DECIMAL, CONFIGURATION: ANY XDS 930 WITH MEMORY LOCK-OUT (MANUAL
060 OR PROGRAM CONTROLLED) POWER FAIL-SAFE.

B3851058 000 AA 9-SERIES 930 CFE-1 DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 851058-11A00 DESCRIPTION PRINTED
 030 851058-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO DISCOVER AND INDICATE CFE-1 FAILURES.
 050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 1-2 MEMORY BANKS TOTALING UP TO 32K (ALTHOUGH
 060 THE CFE WILL BE TESTED WITH ONLY THE FIRST 16K), CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO
 070 THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER NO. ON CHANNEL W.)

B3851060 000 AA 9-SERIES REAL TIME CLOCK TEST ROUTINE D VM
 010 AUTHOR XEROX
 020 851060-11A00 DESCRIPTION PRINTED
 030 851060-44A00 * COMPRESSED CARDS
 040 851060-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 600 DECIMAL CONFIGURATION: ANY XDS 925 OR 930 COMPUTER WITH A PAPER
 070 TAPE READER, A TYPEWRITER ATTACHED TO THE W BUFFER, AND A 91880 REAL TIME CLOCK.

B3851062 000 AA 930 9165 DISC EXERCISER DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 851062-11A00 DESCRIPTION PRINTED
 030 851062-44A00 * COMPRESSED CARDS
 040 851062-51A00 851062-11 LISTING PRINTED
 050 ABSTRACT THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE
 060 USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE, SEEK, AND SEEK AND READ
 070 SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A
 080 SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER THE
 090 CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
 100 COMMENTS THE PROGRAM WILL OPERATE ON A 930 WITH A 9164-01 SINGLE ACCESS DISC FILE CONTROLLER AND A 9165 DISC FILE
 110 STORAGE ON THE W-CHANNEL.

B3851063 000 AA 930 930 RAD DIAGNOSTIC FOR 9367 RAD D VM
 010 AUTHOR XEROX
 020 851063-11A00 DESCRIPTION PRINTED
 030 851063-44A00 * COMPRESSED CARDS
 050 901029 9367 RAD TECHNICAL MANUAL
 060 ABSTRACT THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR
 070 OUTPUTS ARE LISTED ON THE CONSOLE TYPEWRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT
 080 IS PRINTED AT LEAD TIME.

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

B3851064 000 AA 930 HYBRID EXEC, LIB. FOR AEROSPACE CORP. P VM
010 AUTHCR XEROX
020 851064-11A00 DESCRIPTION PRINTED
030 851064-44A00 * COMPRESSED CARDS
040 851064-24A00 RELOCATABLE BINARY CARDS
050 ABSTRACT TO PROVIDE A LIBRARY OF INTERCONNECTED SUBROUTINES WHICH ENABLES THE USER TO CONTROL HYBRID SYSTEM
060 HARDWARE.
070 COMMENTS SOURCE LANGUAGE: META/SYMBOL, SIZE: 3865, CONFIGURATION: 900 SERIES REAL-TIME MONITOR CONFIGURATION.

B3851100 000 AA 9-SERIES 925 EXAMINER DIAGNOSTIC SYSTEM (COVER) D VM
010 AUTHCR XEROX
020 851100-11A00 900649 DESCRIPTION PRINTED
030 851100-84A00 ABSOLUTE BINARY CARDS
040 900649 XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT SEE MANUAL NO. 900649 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
060 COMMENTS THIS PROGRAM COVERS CATALOG NO.'S 851101, 851102, 851103.

B3851101 000 AA 9-SERIES 925 MEMORY DIAGNOSTIC D VM
010 AUTHCR XEROX
020 851101-11A00 900649 DESCRIPTION PRINTED
030 851101-34A00 * SOURCE CARDS
040 851101-84A00 851100-84 ABSOLUTE BINARY CARDS
050 900649 XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
060 ABSTRACT THE PROGRAM EXERCISES MEMORY WITH THE CHECKERBOARD MEMORY WORD PATTERN; IT MONITORS THE MEMORY FOR
070 ERRORS AND AIDS IN DIAGNOSING MEMORY FAILURES.
080 COMMENTS THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900649, 925 COMPUTER EXAMINER DIAGNOSTIC
090 SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: META-SYMBOL, SIZE: 206 DECIMAL. CONFIGURATION: ANY 925.

B3851102 000 AA 9-SERIES 925 INSTRUCTION DIAGNOSTIC D VM
010 AUTHCR XEROX
020 851102-11A00 900649 DESCRIPTION PRINTED

030 851102-34A00 * SOURCE CARDS
 040 851102-84A00 851100-84 ABSOLUTE BINARY CARDS
 050 900649 XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
 060 ABSTRACT THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
 070 COMMENTS THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC
 080 SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 2271 DECIMAL. CONFIGURATION: ANY 925.

B3851103 000 AA 9-SERIES 925 P-AND-S REGISTER TESTER D VM
 010 AUTHOR XEROX
 020 851103-11A00 900649 DESCRIPTION PRINTED
 030 851103-34A00 * SOURCE CARDS
 040 851103-84A00 851100-84 ABSOLUTE BINARY CARDS
 050 900649 XDS 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
 060 ABSTRACT THIS TEST PROGRAM EXERCISES THE P-AND-S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY
 070 COMPARING THE 'MARK' OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED
 080 THE CORRECT LOCATION, THEREFORE, THE TEST CHECKS WHETHER THE P-AND-S REGISTER FUNCTIONED PROPERLY.
 090 COMMENTS THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC
 100 SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 164 DECIMAL. CONFIGURATION: ANY 925.

B3851104 000 AA 9-SERIES 925 CFE-1 DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 851104-11A00 DESCRIPTION PRINTED
 030 851104-44A00 * COMPRESSED CARDS
 040 851104-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT DISCOVER AND INDICATE CFE-1 FAILURES.
 060 COMMENTS SOURCE LANGUAGE: 910 META-SYMBOL. SIZE: 1309 DECIMAL. CONFIGURATION: 925 WITH UP TO 16K OF CORE STORAGE,
 070 A CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER =1
 080 ON CHANNEL W.)

B3851106 000 AA 9-SERIES PAPER TAPE - TYPEWRITER HANDLER 925/930 P VM
 010 AUTHOR XEROX
 020 851106-11B00 DESCRIPTION PRINTED
 030 851106-24A00 RELOCATABLE BINARY CARDS
 040 851106-44A00 * COMPRESSED CARDS
 050 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND
 060 INTERRUPTS ARE USED.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 337 DECIMAL. CONFIGURATION: ANY 925/930 WITH A TYPEWRITER AND/OR
 080 PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.

B3851107 000 AA 9-SERIES EXTENDED MODE I/O TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 851107-11A00 DESCRIPTION PRINTED
 030 851107-44A00 * COMPRESSED CARDS
 040 851107-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE, GIVEN A COMMUNICATION
 060 CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH A TYPEWRITER
 080 ATTACHED TO THE W CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE
 090 W CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.

B3851108 000 AA 9-SERIES 925/930 CARD PUNCH AND VERIFY PROGRAM P VM
 010 AUTHOR XEROX
 020 851108-11A00 DESCRIPTION PRINTED
 030 851108-34A00 * SOURCE CARDS
 040 851108-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO COPY CARD IMAGES ON TAPE, AND TO REPRODUCE OR VERIFY THOSE IMAGES.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 535 DECIMAL. CONFIGURATION: ANY 925/930, 9158 CARD PUNCH, CHANNEL W,
 070 CARD READER, MAG TAPE.

B3851109 000 AA 9-SERIES CARD READ SUBROUTINE (CDR) P VM
 010 AUTHOR XEROX
 020 851109-11A00 DESCRIPTION PRINTED
 030 851109-34A00 850095-35 SOURCE CARDS
 040 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY
 050 MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 134 DECIMAL. CONFIGURATION: ANY 925/930 WITH A CARD READER ATTACHED
 070 TO AN INTERLACED CHANNEL.

B3851110 000 AA 9-SERIES 925/930 CARD READER TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 851110-11A00 DESCRIPTION PRINTED
 030 851110-44A00 * COMPRESSED CARDS
 040 851110-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO VERIFY THE OPERATION OF THE XDS 9151, OR 9153 CARD READER.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL. CONFIGURATION: ANY 925/930 WITH TYPEWRITER ON CHANNEL A
 070 AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A IMCC OR DACC. EXTENDED MODE INTERLACE IS USED
 080 FOR CARD READING.

B3851111 000 AA 9-SERIES 9158 CARD PUNCH TEST PROGRAM D VM
010 AUTHOR XEROX
020 851111-11A00 DESCRIPTION PRINTED
030 851111-34A00 * SOURCE CARDS
040 851111-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A MEANS OF TESTING THE CARD PUNCH,
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 314 DECIMAL. CONFIGURATION: ANY 925/930 WITH INTERLACE, WITH MODEL
070 9158 CARD PUNCH COUPLER SYSTEM. MAY BE USED ON CHANNELS W,Y,C,D,E,F,G,H.

B3851112 000 AA 9-SERIES MAGNETIC TAPE HANDLER (EXTENDED MODE) P VM
010 AUTHOR XEROX
020 851112-11A00 DESCRIPTION PRINTED
030 851112-24A00 RELOCATABLE BINARY CARDS
040 851112-44A00 * COMPRESSED CARDS
050 ABSTRACT TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN
060 THE EXTENDED MODE UNDER INTERRUPT CONTROL.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL. CONFIGURATION: ANY XDS 925/930 WITH MAGNETIC TAPE(S) ON
080 ANY OF THE INTERLACED CHANNELS A-H.

B3851113 000 AA 9-SERIES EXTENDED MODE MULTI-MAGNETIC TAPE EXER. D VM
010 AUTHOR XEROX
020 851113-11A00 DESCRIPTION PRINTED
030 851113-44A00 * COMPRESSED CARDS
040 851113-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THROUGH H. THE EXERCISE
060 OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES AND ALL SKS'S AND
070 EQM'S ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
080 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE 1903 DECIMAL. CONFIGURATION: ANY 925/930 WITH A DATA MULTIFLEX UNIT
090 AND DATA SUB CHANNEL I HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO
100 READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).

B3851114 000 AA 9-SERIES MAGNETIC TAPE TEST PROGRAM FOR 925/930 D VM
010 AUTHOR XEROX
020 851114-11A00 DESCRIPTION PRINTED
030 851114-44A00 * COMPRESSED CARDS
040 851114-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPES UNITS.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 925/930 COMPUTER WITH A TYPEWRITER (NUMBER 1)
070 ATTACHED TO THE W BUFFER AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND

080 EXTENDED MODE.

B3851115 000 AA 9-SERIES DATA MULTIPLEX CHANNEL TEST 925/930 D VM
010 AUTHOR XEROX
020 851115-11A00 DESCRIPTION PRINTED
030 851115-44A00 * COMPRESSED CARDS
040 851115-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, COMPUTER CONFIGURATION ANY 925 OR 930 WITH A DATA MULTIPLEX UNIT AND DATA
070 SUB CHANNEL 1 HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED, A TYPEWRITER AND PHOTO READER OR
080 BINARY CARDREADER ARE REQUIRED ON CHANNEL A (ZERO).

B3851116 000 AA 9-SERIES DSC-I DIAGNOSTIC TEST P VM
010 AUTHOR XEROX
020 851116-11A00 DESCRIPTION PRINTED
030 851116-44A00 * COMPRESSED CARDS
040 851116-51A00 LISTING PRINTED
050 851116-84A00 ABSOLUTE BINARY CARDS
060 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-I TEST INDEPENDENT OF A PERIPHERAL DEVICE.

B3851117 000 AA 9-SERIES DSC-II DIAGNOSTIC TEST D VM
010 AUTHOR XEROX
020 851117-11A00 DESCRIPTION PRINTED
030 851117-44A00 * COMPRESSED CARDS
040 851117-51A00 LISTING PRINTED
050 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.

B3851118 000 AA 9-SERIES DACC DIAGNOSTIC TEST WITH JX35 TESTER925 D VM
010 AUTHOR XEROX
020 851118-11A00 DESCRIPTION PRINTED
030 851118-44A00 * COMPRESSED CARDS
040 851118-51A00 LISTING PRINTED
050 851118-84A00 ABSOLUTE BINARY CARDS
060 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL
070 DEVICE.

B3851119 000 AA 9-SERIES TMCC DIAGNOSTIC TEST FOR 925/930 D VM
010 AUTHOR XEROX
020 851119-11A00 DESCRIPTION PRINTED

030 851119-44A00 * COMPRESSED CARDS
 040 851119-51A00 LISTING PRINTED
 050 851119-84A00 ABSOLUTE BINARY CARDS
 060 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TIME MULTIPLEXED COMMUNICATION CHANNEL TEST
 070 INDEPENDENT OF A PERIPHERAL DEVICE.

B3851121 000 AA 925 925/930 LINE PRINTER SUBROUTINE (PRINT) P MM
 010 AUTHOR XEROX
 020 851121-11A00 DESCRIPTION PRINTED
 030 851121-24A00 RELOCATABLE BINARY CARDS
 040 851121-44A00 * COMPRESSED CARDS
 050 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES UP TO 132 CHARACTERS WITH VERTICAL FORMAT
 060 CONTROL.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 260 OCTAL WORDS, CONFIGURATION: ANY XDS 925 OR 930 WITH A BUFFERED
 080 LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

B3851122 000 AA 9-SERIES 9174/9179 PRINTER DIAGNOSTIC 925/930 D VM
 010 AUTHOR XEROX
 020 851122-11A00 DESCRIPTION PRINTED
 030 851122-44A00 * COMPRESSED CARDS
 040 851122-51A00 LISTING PRINTED
 050 851122-84A00 ABSOLUTE BINARY CARDS
 060 ABSTRACT A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTER ON AN XDS 925
 070 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES.
 080 INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR CACC.

B3851123 000 AA 9-SERIES 9379 PRINTER DIAGNOSTIC 925/930 D VM
 010 AUTHOR XEROX
 020 851123-11A00 DESCRIPTION PRINTED
 030 851123-44A00 * COMPRESSED CARDS
 040 851123-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 925 OR 930
 060 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES.
 070 INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR CACC.

B3851124 000 AA 9-SERIES 9372 UNBUFFERED LINE PRINTER TEST 925/93 D VM
 010 AUTHOR XEROX
 020 851124-11A00 DESCRIPTION PRINTED
 030 851124-44A00 * COMPRESSED CARDS

040 851124-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE
 060 PRINTER'S RESPONSE TO PROGRAM-GENERATED COMMANDS.

B3851127 000 AA 9-SERIES DISC FILE TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 851127-11A00 DESCRIPTION PRINTED
 030 851127-44A00 * COMPRESSED CARDS
 040 851127-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING
 060 FOR ACCEPTANCE PURPOSE OF THE 9164 MOVABLE ARM DISC.

B3851128 000 AA 9-SERIES DISC FILE DIAGNOSTIC (DFD) 925/930 D VM
 010 AUTHOR XEROX
 020 851128-11A00 DESCRIPTION PRINTED
 030 851128-44A00 * COMPRESSED CARDS
 040 851128-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE THE CAPABILITY TO DIAGNOSE THE OPERATION OF THE MODEL 9267 RAD.

B3851129 000 AC 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930 D VM
 010 AUTHOR XEROX
 020 851129-11C00 DESCRIPTION PRINTED
 030 851129-44C00 860767-44 COMPRESSED CARDS
 040 ABSTRACT TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF R.A.D.'S.

B3851130 000 AA 9-SERIES TEST PROGRAM DISC FILE MODEL 9367-A 925/ D VM
 010 AUTHOR XEROX
 020 851130-11A00 DESCRIPTION PRINTED
 030 851130-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE UNIT MODEL 9367-A.

B3851131 000 AA 900-SERIES SNAPSHOT SUBROUTINE P VM
 010 AUTHOR XEROX
 020 851131-11A00 DESCRIPTION PRINTED
 030 851131-24A00 RELOCATABLE BINARY CARDS
 040 851131-44A00 * COMPRESSED CARDS
 050 ABSTRACT THIS PROGRAM WILL PERFORM SNAPSHOT AT SELECTED POINTS IN CORE. SNAPSHOT IS CALLED AS A SUBROUTINE.
 060 SNAPSHOT WILL ALSO INSERT CORRECTIONS IN CORE. EACH SNAPSHOT PRINTS THE P,A,B,X REGISTERS ALONG WITH THE
 070 BLOCK LIST SPECIFIED. INPUT PARAMETERS ARE READ FROM THE CARD READER. ILLEGAL CONTROL CARDS ARE PRINTED

080 ON THE TYPEWRITER.
090 COMMENTS COMPUTER CONFIGURATION REQUIRED: ANY 910,920,925,930 COMPUTER WITH A CARD READER,PRINTER AND TYPEWRITER,
100 THIS RELOCATABLE PROGRAM REQUIRES 571 OCTAL LOCATIONS.

B3851134 000 AA 925 9 TRACK MAGNETIC TAPE TEST PROGRAM D MM
010 AUTHOR XEROX
020 851134-11A00 DESCRIPTION PRINTED
030 851134-44A00 * COMPRESSED CARDS
040 851134-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK
060 MAGNETIC TAPE SYSTEM.
070 COMMENTS MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9
080 TRACK MAGNETIC TAPE SYSTEM

B3851135 000 AA 900-SERIES SEMI AUTO TYPEWRITER TEST D VM
010 AUTHOR XEROX
020 851135-11A00 DESCRIPTION PRINTED
030 851135-34A00 * SOURCE CARDS
040 ABSTRACT THIS PROGRAM PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES
050 OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE,THE OPERATOR MAY SELECT THE W BUFFER OR THE Y BUFFER AND
060 TYPEWRITER NO. 1 OR TYPEWRITER NO.2.
070 COMMENTS THE PROGRAM REQUIRES 368 DECIMAL LOCATIONS, IS SELF-LOADING AND RELOCATABLE, THE PROGRAM WILL OPERATE
080 WITH EITHER THE SELECTRIC OR TELETYPE KEYBOARD/PRINTER DEVICES.

B3851136 000 AA 930 DEE-6D SIMULATOR SYSTEM DIAGNOSTIC D VM
010 AUTHOR XEROX
020 851136-11A00 DESCRIPTION PRINTED
030 851136-44A00 * COMPRESSED CARDS
040 ABSTRACT TO DEMONSTRATE AND TEST ALL DEE-6D SIMULATOR SYSTEM INTERFACE HARDWARE.
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL, CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-6D HARDWARE.

B3851137 000 AA 910 JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM D MM
010 AUTHOR XEROX
020 851137-11A00 DESCRIPTION PRINTED
030 851137-44A00 * COMPRESSED CARDS
040 ABSTRACT TO DETECT AND DESCRIBE MALFUNCTIONS IN THE JPL APS-100 SYSTEM.
050 COMMENTS STAND ALONE ABSOLUTELY LOADED, CODED IN 910 METASYMBOL, STORAGE REQUIRED THROUGH 2620.

B3851143 000 AA 900-SERIES UTILITY PACKAGE P VM

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010 AUTHOR XEROX
020 851143-11A00 DESCRIPTION PRINTED
030 851143-24A00 RELOCATABLE BINARY CARDS
040 851143-44A00 * COMPRESSED CARDS
050 ABSTRACT PROVIDES ALL ASPECTS OF MAGNETIC TAPE PROCESSING RELATED TO UTILITY USAGE.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, CON: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, TWO MAG TAPES
070 AND CARD READER.

B3851144 000 AA 900-SERIES LIST TAPE ROUTINE P MM
010 AUTHOR XEROX
020 851144-11A00 DESCRIPTION PRINTED
030 851144-44A00 * COMPRESSED CARDS
040 851144-51A00 LISTING PRINTED
050 851144-84A00 ABSOLUTE BINARY CARDS
060 ABSTRACT THIS PROGRAM WILL LIST A SYMBOLIC TAPE OF UP TO 33 WORDS PER RECORD AT THE I/O DEVICE SPEED. THREE
070 OPTIONS ARE PROVIDED VIA BREAKPOINT SWITCHES LISTING THE FIRST 25 RECORDS OR ALL RECORDS IN A FILE
080 HALTING ON AN EOF ACCEPTING OR IGNORING A RECORD WHEN A READ ERROR OCCURS
090 COMMENTS COMPUTER CONFIGURATION: ANY 910, 925, 920, 930 COMPUTER WITH A CARD READER, PRINTER, MAGNETIC TAPE, INTERLACE
100 CONTROL AND TYPEWRITER. THE PROGRAM IS LOADED BY THE STANDARD LOAD PROCEDURES FOR A BINARY PROGRAM

B3851145 000 AA 910 15 KC MAGNETIC TAPE EXERCISER P MM
010 AUTHOR XEROX
020 851145-11A00 DESCRIPTION PRINTED
030 851145-34A00 * SOURCE CARDS
050 ABSTRACT THIS PROGRAM IS INTENDED TO EXERCISE 15 KC MAGNETIC TAPE UNITS SUCH AS THE 9146. THE TAPE UNIT MUST BE
060 ATTACHED TO THE Y BUFFER. A TYPEWRITER MUST BE CONNECTED TO THE W BUFFER.
070 COMMENTS THIS PROGRAM WILL WORK WITH ANY XDS 900 SERIES COMPUTER. THE PROGRAM OPERATES IN EITHER THE PROGRAM
080 CONTROL MODE OR THE INTERLACE CONTROL MODE. THE Y BUFFER INTERRUPTS ARE UTILIZED BY THE PROGRAM.

B3851149 000 AA 92 LN-FLOATING-POINT NATURAL LOGARITHM P VM
010 AUTHOR XEROX
020 851149-11A00 DESCRIPTION PRINTED
030 851149-34A00 * SOURCE CARDS
040 ABSTRACT TO REPLACE A NORMALIZED FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS
050 EXPONENTIAL (BASE E)
060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 133 DECIMAL, CONFIGURATION: ANY XDS 92.

B3851150 000 AA 92 SIN/COS-FLOATING-POINT SINE-COSINE SUBR, P VM
010 AUTHOR XEROX

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020 851150-11A00 DESCRIPTION PRINTED
 030 851150-34A00 * SOURCE CARDS
 040 ABSTRACT TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS SINE OR
 050 COSINE.
 060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 178 DECIMAL, CONFIGURATION: ANY XDS 92.

B3851151 000 AA 92 ATAN-FLOATING-POINT ARCTANGENT SUBR. P VM
 010 AUTHOR XEROX
 020 851151-11A00 DESCRIPTION PRINTED
 030 851151-24A00 RELOCATABLE BINARY CARDS
 040 851151-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED NORMALIZED FLOATING-POINT
 060 ARGUMENTS.
 070 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 246 DECIMAL, CONFIGURATION: ANY XDS 92.

B3851152 000 AA 92 INTERRUPT-INTERLACE I/O TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 851152-11A00 DESCRIPTION PRINTED
 030 851152-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO TEST AS MANY OF THE INTERRUPT AND INTERLACE OPERATIONS AS POSSIBLE WITH PAPER TAPE I/O OPERATIONS,
 050 GIVEN IN I/O CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
 060 COMMENTS SOURCE LANGUAGE: 920 META-SYMBOL WITH 92 PROCEDURES DECK, SIZE: 993 DECIMAL, CONFIGURATION: ANY XDS 92
 070 COMPUTER WITH PAPER TAPE READER AND/OR PAPER TAPE PUNCH ATTACHED TO THE I/O CHANNEL, THE INTERRUPT
 080 AND/OR INTERLACE FEATURES MAY EXIST IN ANY COMBINATION WITH RESPECT TO THE I/O CHANNELS.

B3851154 000 AA 92 DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC) D VM
 010 AUTHOR XEROX
 020 851154-11A00 900878 DESCRIPTION PRINTED
 030 851154-44A00 * COMPRESSED CARDS
 040 900878 XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
 050 ABSTRACT TO TEST ALL OPERATIONS WITHIN THE 92 EXCEPT THOSE RELATED TO I/O, THESE INCLUDE ALL NON-I/O
 060 INSTRUCTIONS, REGISTER TRANSFERS, ADDRESSING MODES, AND ADDER FUNCTIONS.
 070 COMMENTS SOURCE LANGUAGE: 920 META-SYMBOL, SIZE: 2000 DECIMAL, CONFIGURATION: MINIMUM OF 2K CORE AND PAPER TAPE
 080 READER, PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

B3851155 000 AA 92 2-4K MEMORY DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 851155-11A00 900878 DESCRIPTION PRINTED
 030 851155-44A00 * COMPRESSED CARDS

040 900878 XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
 050 ABSTRACT TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED
 060 MEMORY PATTERNS.
 070 COMMENTS SOURCE LANGUAGE: 920 META-SYMBOL, SIZE: 4000 DECIMAL, CONFIGURATION: 2K OR 4K CORE AND PAPER TAPE
 080 READER, PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

B3851156 000 AA 92 8-16-32K MEMORY DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 851156-11A00 900878 DESCRIPTION PRINTED
 030 851156-44A00 * COMPRESSED CARDS
 040 900878 XDS92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
 050 ABSTRACT TO VERIFY SUCCESSFUL OPERATIONS, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY
 060 PATTERNS.
 070 COMMENTS SOURCE LANGUAGE: 920 META-SYMBOL, SIZE: 8000 DECIMAL, CONFIGURATION: 9, 16, 32K CORE AND PAPER TAPE
 080 READER, PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.

B3851157 000 AA 92 92 TYPEWRITER TEST D VM
 010 AUTHOR XEROX
 020 851157-11A00 DESCRIPTION PRINTED
 030 851157-34A00 * SOURCE CARDS
 040 851157-51A00 LISTING PRINTED
 050 ABSTRACT TO EXERCISE THE TYPEWRITER UNDER OPERATOR CONTROL

B3851159 000 AA 92 PAPER TAPE+TYPEWRITER SUBROUTINE(PTYIO) P VM
 010 AUTHOR XEROX
 020 851159-11A00 DESCRIPTION PRINTED
 030 851159-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A PAPER TAPE READER OR CONSOLE TYPEWRITER
 050 AND TRANSMITTING DATA TO A PAPER TAPE PUNCH OR CONSOLE TYPEWRITER AND PERFORMING THESE FUNCTIONS IN
 060 EITHER BCD OR BINARY MODE. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
 070 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE: 276 DECIMAL, CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER,
 080 A PAPER TAPE PUNCH, OR A CONSOLE TYPEWRITER ATTACHED TO THE I/O CHANNEL.

B3851160 000 AA 92 BINARY PAPER TAPE RELOCATING BOOTSTRAP P VM
 010 AUTHOR XEROX
 020 851160-11A00 DESCRIPTION PRINTED
 030 851160-34A00 * SOURCE CARDS
 040 ABSTRACT TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL, THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM
 050 OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/DEFINITION.

060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 306 DECIMAL, CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER,

83851161 000 AA 92 BINARY PAPER TAPE BOOTSTRAP LOADER P VM
010 AUTHOR XEROX
020 851161-11A00 DESCRIPTION PRINTED
030 851161-34A00 * SOURCE CARDS
040 ABSTRACT TO RELOCATE INTO UPPER MEMORY BINARY PAPER TAPE OUTPUT FROM 92 SYMBOL, THIS LOADER WILL LOAD AND
050 RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ON CONTAINING AN EXTERNAL REFERENCE/DEFINITION.
060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 302 DECIMAL, CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER,

83851162 000 AA 92 UNIVERSAL BINARY LOADER (GUBLDR) P VM
010 AUTHOR XEROX
020 851162-11A00 DESCRIPTION PRINTED
030 851162-34A00 * SOURCE CARDS
040 ABSTRACT TO LOAD ONE OR MORE PROGRAMS INTO MAIN (CORE) MEMORY FOR EXECUTION, PROGRAMS TO BE LOADED MUST BE
050 PRESENTED TO THE LOADER IN THE OBJECT PROGRAM FORMAT EMPLOYED BY XDS 92 SYMBOL.
060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 803 DECIMAL, CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE
070 READER AND TYPEWRITER, THE LOADER IS AVAILABLE ON PAPER TAPE BUT CAN LOAD PROGRAMS WHICH EXIST EITHER ON
080 PUNCHED CARDS OR PAPER TAPE,

83851163 000 AA 92 BINARY PAPER TAPE RELOCATING UPPER LOADE P VM
010 AUTHOR XEROX
020 851163-11A00 DESCRIPTION PRINTED
030 851163-34A00 * SOURCE CARDS
040 ABSTRACT TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL, THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM
050 OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/ DEFINITION, THIS LOADER DIFFERS FROM
060 CATALOG NO, 851160, IN THAT IT RESIDES IN UPPER MEMORY (THE LAST 278 LOCATIONS) AND ONCE LOADED, DOES
070 NOT USE ANY LOWER MEMORY OTHER THAN SCRATCHPAD (0-31).
080 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE: 278 DECIMAL, CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER,

83851166 000 AA 92 PAPER TAPE READER TEST D VM
010 AUTHOR XEROX
020 851166-11A00 DESCRIPTION PRINTED
030 851166-44A00 * COMPRESSED CARDS
040 ABSTRACT TO EXERCISE THE PAPER TAPE READER AND TEST ITS OPERATION,
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL/92, SIZE: 2146 DECIMAL, CONFIGURATION: ANY 92 COMPUTER,

83851167 000 AA 92 CARD READ HANDLER (CDR) P VM
010 AUTHOR XEROX

020 851167-11A00 DESCRIPTION PRINTED
030 851167-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING 80-COLUMN CARDS PUNCHED IN EITHER BCD (HOLLERITH
050 CODED) OR BINARY FORMAT. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
060 COMMENTS SOURCE LANGUAGE: SYMBOL. SIZE: 126 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A CARD READER,
070 ATTACHED TO THE I/O CHANNEL.

B3851168 000 AA 92 CARD READER TEST PROGRAM D VM
010 AUTHOR XEROX
020 851168-11A00 DESCRIPTION PRINTED
030 851168-34A00 * SOURCE CARDS
040 851168-74A00 850660-74 TEST DECK
050 ABSTRACT TO VERIFY THE OPERATION OF THE XDS 9150, 91510, 9152 OR 9153 CARD READER.
060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL. SIZE: 904 DECIMAL. CONFIGURATION: ANY XDS 92 WITH TYPEWRITER AND XDS MODEL
070 9150, 91510, 9152 OR 9153 CARD READER IN UNIT NUMBER 1 POSITION. INTERRUPTS AND/OR INTERLACE ARE NOT
080 REQUIRED FOR OPERATION OR TEST PROGRAM.

B3851169 000 AA 92 MAGNETIC TAPE SUBROUTINE (MTAPE) P VM
010 AUTHOR XEROX
020 851169-11A00 DESCRIPTION PRINTED
030 851169-24A00 RELOCATABLE BINARY CARDS
040 851169-34A00 * SOURCE CARDS
050 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING AND/OR WRITING VARIABLE LENGTH RECORDS IN EITHER BCD
060 OR BINARY MODES. BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
070 COMMENTS SOURCE LANGUAGE: SYMBOL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A MAGNETIC TAPE UNIT, ATTACHED TO THE
080 I/O CHANNEL AT 200, 556, OR 800 BPI DENSITY.

B3851170 000 AA 92 MAGNETIC TAPE TEST PROGRAM D VM
010 AUTHOR XEROX
020 851170-11A00 DESCRIPTION PRINTED
030 851170-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
050 COMMENTS SOURCE LANGUAGE: 92 SYMBOL. SIZE 1412 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH 4K MEMORY, A
060 TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE ATTACHED TO THE I/O CHANNEL. INTERLACE AND
070 I/O CHANNEL INTERRUPTS ARE NOT USED IN THE PROGRAM.

B3851171 000 AA 92 MULTI-MAGNETIC TAPE EXERCISER D VM
010 AUTHOR XEROX
020 851171-11A00 DESCRIPTION PRINTED

030 851171-34A00 * SOURCE CARDS
040 ABSTRACT TO EXERCISE TAPE UNITS BY WRITING A FILE CONSISTING OF RANDOM LENGTH RECORDS OF RANDOM NUMBERS AND
050 READING THE TAPE BACK CHECKING FOR ERRORS. COUNTERS ARE MAINTAINED BY THE PROGRAM, TALLYING THE NUMBER
060 OF PASSES MADE AND THE NUMBER OF VARIOUS TYPES OF ERRORS. THE PROGRAM WILL EXERCISE UP TO 8 TAPE UNITS.
070 COMMENTS SOURCE LANGUAGE: 92 SYMBOL. SIZE 2174 DECIMAL. CONFIGURATION: A 92 COMPUTER WITH ONE OR MORE MAGNETIC
080 TAPES AND A TYPEWRITER.

B3851173 000 AA 92 DSC-I DIAGNOSTIC TEST FOR XDS 92 D VM
010 AUTHOR XEROX
020 851173-11A00 DESCRIPTION PRINTED
030 851173-34A00 * SOURCE CARDS
040 ABSTRACT THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A
050 PERIPHERAL DEVICE.
060 COMMENTS SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK, SIZE: 2702 DECIMAL WITH XDS 92 92,
070 I/O TESTER, DSC-I AND TYPEWRITER.

B3851174 000 AA 92 DSC-II DIAGNOSTIC TEST FOR XDS 92 D VM
010 AUTHOR XEROX
020 851174-11A00 DESCRIPTION PRINTED
030 851174-34A00 * SOURCE CARDS
040 ABSTRACT THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A
050 PERIPHERAL DEVICE.
060 COMMENTS SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK, SIZE 2358 DECIMAL. CONFIGURATION: ANY
070 XDS 92 WITH I/O TESTER, DSC-II AND TYPEWRITER.

B3851175 000 AA 92 INT, BPO, BPI DIAGNOSTIC TEST FOR XDS 92 D VM
010 AUTHOR XEROX
020 851175-11A00 DESCRIPTION PRINTED
030 851175-34A00 * SOURCE CARDS
040 ABSTRACT THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A BPO/BPI TEST, AND/OR AN INTERRUPT CHASSIS TEST, BY USING
050 THE I/O TESTER INSTEAD OF PERIPHERAL DEVICES.
060 COMMENTS SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK, SIZE 1905 DECIMAL. CONFIGURATION: ANY
070 XDS 92 WITH I/O TESTER, TYPEWRITER, AND INTERRUPT CHASSIS (NOT NECESSARY IF ONLY BPO/BPI IS TO BE
080 TESTED).

B3851176 000 AA 92 MEMORY TO LINE PRINTER OCTAL DUMP P VM
010 AUTHOR XEROX
020 851176-11A00 DESCRIPTION PRINTED
030 851176-44A00 * COMPRESSED CARDS

040 851176-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
060 COMMENTS SIZE 80 DECIMAL, CONFIGURATION: ANY XDS 92 WITH LINE PRINTER AND PAPER TAPE OR CARD READER.

B3851177 000 AA 92 LINE PRINTER SUBROUTINE (PRINT) P VM
010 AUTHOR XEROX
020 851177-11A00 DESCRIPTION PRINTED
030 851177-24A00 RELOCATABLE BINARY CARDS
040 851177-34A00 * SOURCE CARDS
050 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT
060 CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
070 COMMENTS SOURCE LANGUAGE: SYMBOL, SIZE 184 DECIMAL, CONFIGURATION: ANY XDS 92 COMPUTER WITH A LINE BUFFERED
080 PRINTER, ATTACHED TO THE I/O CHANNEL.

B3851178 000 AA 92 MOD. 9372 UNBUF. LINE PRINTER, SUBR. (PRIN) P VM
010 AUTHOR XEROX
020 851178-11A00 DESCRIPTION PRINTED
030 851178-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT
050 CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE 466 DECIMAL, CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED
070 LINE PRINTER.

B3851179 000 AA 92 MOD. 9372 UNBUF. LINE PRINTER DIAGNOSTIC D VM
010 AUTHOR XEROX
020 851179-11A00 DESCRIPTION PRINTED
030 851179-34A00 * SOURCE CARDS
040 ABSTRACT THE DIAGNOSTIC PROGRAM HAS BEEN DESIGNED PRIMARILY TO TEST THE BASIC FUNCTIONS OF THE 9372 PRINTER
050 UTILIZING A LIMITED AMOUNT OF CORE. TO ACHIEVE THESE ENDS SOME LIMITATIONS HAVE BEEN PUT ON KEYBOARD
060 ENTRIES (MUST BE OF COMPLETE NATURE), AND TITLE PRINTOUTS.
070 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE 1720 DECIMAL, CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED
080 LINE PRINTER.

B3851180 000 AA 92 BUFFERED LINE PRI. DIAGNOSTIC 9379/9171 D VM
010 AUTHOR XEROX
020 851180-11A00 DESCRIPTION PRINTED
030 851180-34A00 * SOURCE CARDS
040 ABSTRACT THE DIAGNOSTIC PROGRAM WILL PROVIDE A COMPREHENSIVE TEST FOR THE BUFFERED LINE PRINTER WITHIN A LIMITED
050 AMOUNT OR CORE.

060 COMMENTS SIZE: 1571 DECIMAL, CONFIGURATION: ANY XDS 92 WITH A MODEL 9379/9171 BUFFERED LINE PRINTER.

B3851181 000 AA 92 MTE-2 MAGNETIC TAPE EXERCISER D VM
010 AUTHOR XEROX
020 851181-11A00 DESCRIPTION PRINTED
030 851181-44A00 * COMPRESSED CARDS
040 851181-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS
060 AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN, AN ATTEMPT IS MADE TO
070 TABULATE AND OUT PUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES
080 OVER THE TAPE.
090 COMMENTS SOURCE LANGUAGE: META-SYMBOL (92 PROC DECK, 850677), SIZE 1600 DECIMAL, CONFIGURATION: XDS 92 COMPUTER
100 AND A 6-BIT I/O CHANNEL, A TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-2 MAGNETIC TAPE TRANSPORT,
110 UNIT 0, CONNECTED TO THE W BUFFER.

B3851182 000 AA 92 SCOPE TEST PROGRAM D VM
010 AUTHOR XEROX
020 851182-11A00 DESCRIPTION PRINTED
030 851182-34A00 * SOURCE CARDS
040 ABSTRACT TO AID IN SCOPE MAINTENANCE AND VERIFICATION OF SCOPE OPERATION, THE PROGRAM INCLUDES TESTS FOR ALL
050 OPTIONAL SCOPE FEATURES.
060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 WITH PAPER TAPE, TYPEWRITER, 24BIT PIN/POT EXTENDER
070 AND MODEL 9185 OSCILLOSCOPE DISPLAY SYSTEM.

B3851184 000 AA 92 92 RAD ANALYTIC DIAGNOSTIC D VM
010 AUTHOR XEROX
020 851184-11A00 DESCRIPTION PRINTED
030 851184-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
050 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, SIZE 4037 DECIMAL, CONFIGURATION: AN XDS MODEL 92 COMPUTER WITH A TYPEWRITER
060 (NUMBER 1) ATTACHED AND ONE OR MORE RAD UNITS USING INTERLACE AND 12 BIT EXTENDER.

B3851185 000 AA 92 TEST PROGRAM FOR DISC FILE 9367-A D VM
010 AUTHOR XEROX
020 851185-11A00 DESCRIPTION PRINTED
030 851185-34A00 * SOURCE CARDS
040 ABSTRACT TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE MODEL 9367-A.
050 COMMENTS SOURCE LANGUAGE: 92 SYMBOL, CONFIGURATION: XDS 92 COMPUTER, 8K MEMORY, 12 BIT CHARACTER OPTION ON I/O
060 CHANNEL, DISC FILE SYSTEM MODEL 9367-A ATTACHED TO I/O CHANNEL (UNIT 26). DISC FILE UNIT MUST BE UNIT 0.

B3851186 000 AA 92 POWER FAIL-SAFE TEST D VM
 010 AUTHOR XEROX
 020 851186-11A00 DESCRIPTION PRINTED
 030 851186-34A00 * SOURCE CARDS
 040 ABSTRACT TO VERIFY PROPER OPERATION OF THE POWER FAIL-SAFE OPTION.
 050 COMMENTS SOURCE LANGUAGE: 92 SYMBOL. SIZE: 983 DECIMAL, CONFIGURATION: ANY XDS 92 WITH POWER FAIL-SAFE AND PAPER
 060 TAPE READER.

B3851187 000 AA 92 REAL TIME CLOCK TEST D VM
 010 AUTHOR XEROX
 020 851187-11A00 DESCRIPTION PRINTED
 030 851187-34A00 * SOURCE CARDS
 040 851187-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO VERIFY PROPER OPERATION OF THE REAL TIME CLOCK.
 060 COMMENTS SOURCE LANGUAGE: 92 SYMBOL. SIZE 1664 DECIMAL, CONFIGURATION: ANY XDS 92 WITH REAL TIME CLOCK AND PAPER
 070 TAPE READER.

B3851188 000 AA 92 92 BASIC UTILITY PACKAGE P VM
 010 AUTHOR XEROX
 020 851188-11A00 DESCRIPTION PRINTED
 030 851188-34A00 * SOURCE CARDS
 040 851188-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 92.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 840 DECIMAL WORDS, CONFIGURATION: ANY XDS 9300 COMPUTER.

B3851220 000 AA 900-SERIES MANAGE SYSTEM (COVER) P VM
 010 AUTHOR XEROX
 020 851220-11A00 DESCRIPTION PRINTED
 030 851220-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS
 040 851220-55A00 LISTING MAG TAPE, 7 CHANNELS
 050 851220-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 060 901046 XDS MANAGE REFERENCE MANUAL
 070 ABSTRACT XDS MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE DECISION
 080 MAKING. IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL COMPANY
 090 RECORDS ON MAGNETIC TAPE, SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS, AND GENERATE PRINTED REPORTS OF
 100 THE DATA WHEN REQUESTED.

B3851257 000 AB 900-SERIES 925/930 RTM STAND-ALONE UPDATE P MM

010 AUTHOR XEROX
 020 851257-11B00 DESCRIPTION PRINTED
 030 851257-45B00 851500-45 COMPRESSED MAG TAPE, 7 CHANNELS
 040 851257-84B00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS ROUTINE IS USED TO UPDATE 925/930 RTM SYSGEN TAPES,
 060 COMMENTS SOURCE LANGUAGE:METASYMBOL, CONFIGURATION: XDS 925/930 WITH 8K MEMORY (MINIMUM).

B3851258 000 AA 910 910/925 MONARCH FOR UNBUFFERED PRINTER P MM
 010 AUTHOR XEROX
 020 851258-11A00 DESCRIPTION PRINTED
 030 851258-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 040 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
 050 OPERATOR INTERVENTION.
 060 COMMENTS ANY XDS 910/925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, AND
 070 UNBUFFERED PRINTER.

B3851259 000 AA 920 920/930 MONARCH FOR UNBUFFERED PRINTER P MM
 010 AUTHOR XEROX
 020 851259-11A00 DESCRIPTION PRINTED
 030 851259-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 040 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
 050 OPERATOR INTERVENTION.
 060 COMMENTS ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, AND
 070 UNBUFFERED PRINTER.

B3851260 000 AA 925 925 RAD MONARCH FOR UNBUFFERED PRINTER P VM
 010 AUTHOR XEROX
 020 851260-11A00 DESCRIPTION PRINTED
 030 851260-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 040 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
 050 OPERATOR INTERVENTION.
 060 COMMENTS ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9367 DISC FILE,
 070 AND UNBUFFERED PRINTER.

B3851261 000 AA 930 930 RAD MONARCH FOR UNBUFFERED PRINTER P VM
 010 AUTHOR XEROX
 020 851261-11A00 DESCRIPTION PRINTED
 030 851261-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 040 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING

050 OPERATOR INTERVENTION,
060 COMMENTS ANY XDS 930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9367 DISC
070 FILE, AND UNBUFFERED PRINTER.

B3851290 000 AA 9-SERIES MONARCH MPRNT (UNBUF) P VM
010 AUTHOR XEROX
020 851290-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
030 ABSTRACT TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTER.

B3851291 000 AA 9-SERIES MONARCH PRINT (UNBUF) P VM
010 AUTHOR XEROX
020 851291-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
030 851291-44A00 * COMPRESSED CARDS
040 ABSTRACT TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTERS.

B3851292 000 AA 9-SERIES MONARCH CDRP P VM
010 AUTHOR XEROX
020 851292-11A00 DESCRIPTION PRINTED
030 851292-24A00 RELOCATABLE BINARY CARDS
040 851292-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
050 ABSTRACT TO OBTAIN A BINARY CARD IMAGE FROM CARD READER.

B3851293 000 AA 9-SERIES MONARCH PTYIC P VM
010 AUTHOR XEROX
020 851293-11A00 DESCRIPTION PRINTED
030 851293-24A00 RELOCATABLE BINARY CARDS
040 851293-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
050 ABSTRACT TO OBTAIN CONTROL MESSAGE RECORDS FROM A PAPER-TAPE READER OR A TYPEWRITER AND TO TYPE CONTROL MESSAGES
060 AND ERROR MESSAGES ON TYPEWRITER.

B3851294 000 AA 9-SERIES MONARCH MTAPE P VM
010 AUTHOR XEROX
020 851294-11A00 DESCRIPTION PRINTED
040 851294-24A00 RELOCATABLE BINARY CARDS
050 851294-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
060 ABSTRACT TO PERFORM MAGNETIC TAPE INPUT AND OUTPUT FUNCTIONS REQUESTED BY THE MONARCH CONTROL AND ACTION
070 ROUTINES.

B3851295 000 AA 9-SERIES MONARCH PRINT P VM

010 AUTHOR XEROX
 020 851295-11A00 DESCRIPTION PRINTED
 030 851295-35A00 850000-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT TO PRINT CONTROL AND ERROR MESSAGES ON LINE PRINTER,

B3851299 000 AA 930 EXT. I/O TEST (NAV. TOR. STA. SYS., ADD-ON) P VM
 010 AUTHOR S. GOOD
 020 851299-11A00 DESCRIPTION PRINTED
 030 851299-34A00 * SOURCE CARDS
 040 ABSTRACT THIS PROGRAM EXERCISES THE 12 EXTERNAL INPUTS (PIN) AND THE 12 EXTERNAL OUTPUTS (POT) OF THE NAVAL
 050 TORPEDO STATION SYSTEM (ADD-ON).
 060 COMMENTS IN THE 'POT' MODE, THE OPERATOR TYPES IN THE OCTAL VALUE TO BE OUTPUT AND THIS VALUE IS SEQUENTIALLY
 070 'POTTED' BY ALL OF THE 12 EXTERNAL OUTPUTS. IN THE 'PIN' MODE, THE VALUE OF EACH OF THE 12 EXTERNAL
 080 INPUTS IS SEQUENTIALLY TYPED, IN OCTAL.

B3851300 000 AC 900-SERIES 925/930 FORTRAN IV LIBRARY P MM
 010 AUTHOR XEROX
 020 851300-11B01 DESCRIPTION PRINTED
 030 851300-25B00 851500-25 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
 040 851300-45B00 * COMPRESSED MAG TAPE, 7 CHANNELS
 060 ABSTRACT THIS PROGRAM IS A COVER NUMBER FOR THE COMPLETE FORTRAN IV LIBRARY. IT INCLUDES CATALOG NUMBERS 851301
 070 THROUGH 851468.

B3851500 000 AC 900-SERIES 925/930 REAL-TIME MONITOR P MM
 010 AUTHOR XEROX
 020 851500-11D00 DESCRIPTION PRINTED
 030 851500-25D00 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
 040 851500-45D00 * COMPRESSED MAG TAPE, 7 CHANNELS
 050 851500-74D00 TEST DECK
 060 ABSTRACT THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS
 070 AND OTHER PROGRAM OPERATION IN A REENTRANT, ONLINE REAL TIME MODE WILL NOT RUN ON 910/920. FOR
 080 REDUCTION.
 090 COMMENTS THIS PROGRAM COVERS CATALOG NUMBERS 851502 THRU 851578, THE -85 ELEMENT CONTAINS: REAL TIME MONITOR
 100 SYMBOL ASSEMBLER, REAL TIME FORTRAN IV COMPILER, AND REAL TIME FORTRAN IV LIBRARY.

B3851579 000 AA 930 ARRAYS PROGRAM FOR NAVAL TORPEDO STATION P VM
 010 AUTHOR XEROX
 020 851579-11A00 DESCRIPTION PRINTED
 030 851579-44A00 * COMPRESSED CARDS

040 ABSTRACT TO TEST THE INPUT HARDWARE THAT SAMPLES THE ARRAYS.
050 COMMENTS SOURCE LANGUAGE:SYMBOL, COMPUTER CONFIGURATION:NAVAL TORPEDO STATION SYSTEM (ADD-ON) (930)

B3851580 000 AA 930 INTER-COMPUTER COUPLER TEST D VM
010 AUTHOR XEROX
020 851580-11A00 DESCRIPTION PRINTED
030 851580-34A00 * SOURCE CARDS
040 851580-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 930 COMPUTERS.
060 COMMENTS THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND
070 INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO
080 BE TRANSFERRED.

B3851583 000 AA 900-SERIES 900 SERIES FORTRAN IV COMPILER P VM
010 AUTHOR XEROX
020 851583-11A00 851500-11 DESCRIPTION PRINTED
030 851583-25A00 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
040 851583-35A00 * SOURCE MAG TAPE, 7 CHANNELS
050 851583-55A00 * LISTING MAG TAPE, 7 CHANNELS
060 ABSTRACT THIS PROGRAM ALLOWS COMPILATION ON ANY 900 SERIES MACHINE OF PROGRAMS WRITTEN IN XDS FORTRAN IV, WITH
070 THE EXCEPTION OF THOSE STATEMENTS AS NOTED IN THE XDS FORTRAN IV REF MANUAL AND APPLICABLE NSS MEMOS.
080 COMMENTS ITS LIMITATIONS ARE DESCRIBED IN 851500-11 BUT NO OTHER FORMAL DOCUMENTATION EXISTS.

B3851584 000 AA 9-SERIES ACCEPTANCE PROG. FOR DATA COMMUNICATION D VM
010 AUTHOR XEROX
020 851584-11A00 DESCRIPTION PRINTED
030 851584-44A00 * COMPRESSED CARDS
040 ABSTRACT PROVIDES A MEANS OF TESTING THE OPERATION OF XDS DATA COMMUNICATIONS EQUIPMENT.
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 900 SERIES COMPUTER WITH DATA COMMUNICATIONS EQUIPMENT.

B3851585 000 AA 9-SERIES COMMUNICATION BUFFER CHECKOUT PROGRAM D VM
010 AUTHOR XEROX
020 851585-11A00 DESCRIPTION PRINTED
030 851585-44A00 * COMPRESSED CARDS
040 ABSTRACT COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH COMMUNICATIONS BUFFER, 4K MEMORY AND ONE OR
050 MORE TELETYPE UNITS OPERATING IN 5 LEVEL OR 8 LEVEL CODE.
060 COMMENTS SOURCE LANGUAGE: SYMBOL/META-SYMBOL

B3851586 000 AA 92 FLN -FLOATING NEGATE SUBROUTINE P VM

	010	AUTHOR	XEROX			
	020		851586-11A00	DESCRIPTION PRINTED		
	030		851586-34A00 *	SOURCE CARDS		
	040	ABSTRACT	TO NEGATE A FLOATING-POINT NUMBER IN THE PSEUDO ACCUMULATOR			
B3851587	000	AA 92		FLOAT -FIXED TO FLOATING SUBROUTINE		P VM
	010	AUTHOR	XEROX			
	020		851587-11A00	DESCRIPTION PRINTED		
	030		851587-34A00 *	SOURCE CARDS		
	040		851587-84A00	ABSOLUTE BINARY CARDS		
	050	ABSTRACT	TO FLOAT A FIXED-POINT TWO'S COMPLEMENT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY			
	060		SCALING IN THE B REGISTER TO A FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR.			
B3851588	000	AA 92		FIX -FLOATING TO A FIXED SUBROUTINE		P VM
	010	AUTHOR	XEROX			
	020		851588-11A00	DESCRIPTION PRINTED		
	030		851588-34A00 *	SOURCE CARDS		
	040		851588-84A00	ABSOLUTE BINARY CARDS		
	050	ABSTRACT	TO CONVERT A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR TO A TWO'S COMPLEMENT FIXED POINT			
	060		INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING SPECIFIED IN THE B REGISTER.			
B3851589	000	AA 92		DVASIM -SIMULATED DVA INSTRUCTION		P VM
	010	AUTHOR	XEROX			
	020		851589-11A00	DESCRIPTION PRINTED		
	030		851589-34A00 *	SOURCE CARDS		
	040		851589-84A00	ABSOLUTE BINARY CARDS		
	050	ABSTRACT	TO SIMULATE THE OPTIONAL DVA INSTRUCTION WHEN A DVA TRAP OCCURS			
B3851590	000	AA 92		DVBSIM -SIMULATED DVB INSTRUCTION		P VM
	010	AUTHOR	XEROX			
	020		851590-11A00	DESCRIPTION PRINTED		
	030		851590-34A00 *	SOURCE CARDS		
	040		851590-84A00	ABSOLUTE BINARY CARDS		
	050	ABSTRACT	TO SIMULATE THE OPTIONAL DVB INSTRUCTION WHEN A DVB TRAP OCCURS			
B3851591	000	AA 92		MUASIM -SIMULATED MUA INSTRUCTION		P VM
	010	AUTHOR	XEROX			
	020		851591-11A00	DESCRIPTION PRINTED		
	030		851591-34A00 *	SOURCE CARDS		

	040		851591-84A00	ABSOLUTE BINARY CARDS	
	050	ABSTRACT	TO SIMULATE THE OPTIONAL MUA INSTRUCTION WHEN AN MUA TRAP OCCURS		
B3851592	000	AA 92		MUBSIM -SIMULATED MUB INSTRUCTION	P VM
	010	AUTHOR	XEROX		
	020		851592-11A00	DESCRIPTION PRINTED	
	030		851592-34A00 *	SOURCE CARDS	
	040		851592-84A00	ABSOLUTE BINARY CARDS	
	050	ABSTRACT	TO SIMULATE THE OPTIONAL MUB INSTRUCTION WHEN AN MUB TRAP OCCURS		
B3851593	000	AA 92		NORMZ -FLCATING NORMALIZE SUBROUTINE	P VM
	010	AUTHOR	XEROX		
	020		851593-11A00	DESCRIPTION PRINTED	
	030		851593-34A00 *	SOURCE CARDS	
	040		851593-84A00	ABSOLUTE BINARY CARDS	
	050	ABSTRACT	TO NORMALIZE A FLCATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR		
B3851594	000	AA 92		SGRT -FLOATING-POINT SQUARE ROOT SUBRT.	P VM
	010	AUTHOR	XEROX		
	020		851594-11A00	DESCRIPTION PRINTED	
	030		851594-34A00 *	SOURCE CARDS	
	040		851594-84A00	ABSOLUTE BINARY CARDS	
	050	ABSTRACT	TO REPLACE A NORMALIZED FLUATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS SQUARE ROOT		
B3851595	000	AA 92		EFFADR -EFFECTIVE ADDRESS ROUTINE	P VM
	010	AUTHOR	XEROX		
	020		851595-11A00	DESCRIPTION PRINTED	
	030		851595-34A00 *	SOURCE CARDS	
	040		851595-84A00	ABSOLUTE BINARY CARDS	
	050	ABSTRACT	TO DETERMINE THE EFFECTIVE ADDRESS OF AN INSTRUCTION, THE EFFECTIVE ADDRESS IS PLACED IN BITS 9-11 OF		
	060		LOCATION 20 AND IN LOCATION 21		
B3851596	000	AA 92		EXP -FLCATING POINT EXPONENTIAL	P VM
	010	AUTHOR	XEROX		
	020		851596-11A00	DESCRIPTION PRINTED	
	030		851596-34A00 *	SOURCE CARDS	
	040		851596-84A00	ABSOLUTE BINARY CARDS	
	050	ABSTRACT	TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS EXPONENTIAL		

B3851597 000 AA 92 FLOATING POINT ARITHMETIC PKGE, FLPT92 P VM
 010 AUTHOR XEROX
 020 851597-11A00 DESCRIPTION PRINTED
 030 851597-34A00 * SOURCE CARDS
 040 851597-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE FLOATING-POINT CAPABILITY FOR XDS 92. THE FLOATINGPOINT PACKAGE CONSISTS OF: FLA - FLOATING
 060 ADD FLS - FLOATING SUBTRACT FLM - FLOATING MULTIPLY FLD - FLOATING DIVIDE LDT - LOAD TRIPLE PRECISION
 070 NORMZ - NORMALIZE FLOATING POINT NO.(SEE CAT. NO. 703008)

B3851598 000 AA 900-SERIES 910 SYMBOL 4 P VM
 010 AUTHOR XEROX
 020 851598-11A00 DESCRIPTION PRINTED
 030 851598-34A00 * SOURCE CARDS
 040 900688- XDS 900 SERIES SYMBOL TECHNICAL MANUAL
 050 ABSTRACT 910 SYMBOL 4 IS DESIGNED TO RUN ON A XDS 910 WITH 4096 WORDS OF MEMORY, A TYPEWRITER, AND PAPER TAPE
 060 INPUT/OUTPUT,

B3851601 000 AA 900-SERIES 910 SYMBOL 4 TABLE PRINTER P VM
 010 AUTHOR XEROX
 020 851601-11A00 DESCRIPTION PRINTED
 030 851601-34A00 * SOURCE CARDS
 040 ABSTRACT TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL 4 ASSEMBLER.

B3851604 000 AA 900-SERIES 920 SYMBOL 4 P VM
 010 AUTHOR XEROX
 020 851604-11A00 DESCRIPTION PRINTED
 030 851604-34A00 * SOURCE CARDS
 040 900688 XDS 900 SERIES SYMBOL TECHNICAL MANUAL
 050 ABSTRACT CONFIGURATION: XDS 920 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.

B3851605 000 AA 900-SERIES 920 SYMBOL 4 BUF. LINE PRINTER MOD P VM
 010 AUTHOR XEROX
 020 851605-11A00 DESCRIPTION PRINTED
 030 851605-34A00 * SOURCE CARDS
 040 ABSTRACT TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.

B3851606 000 AA 900-SERIES 920 SYMBOL 4 UNBUF. LINE PRINTER MOD P VM
 010 AUTHOR XEROX
 020 851606-11A00 DESCRIPTION PRINTED

040 851606-34A00 * SOURCE CARDS
 050 ABSTRACT TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

B3851607 000 AA 900-SERIES 920 SYMBOL 4 TABLE PRINTER P VM
 010 AUTHOR XEROX
 020 851607-11A00 DESCRIPTION PRINTED
 030 851607-34A00 * SOURCE CARDS
 040 ABSTRACT TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL ASSEMBLER.

B3851610 000 AA 900-SERIES 920/910 SYMBOL 4 UNBUF. PRINTER MOD P VM
 010 AUTHOR XEROX
 020 851610-11A00 DESCRIPTION PRINTED
 030 851610-34A00 * SOURCE CARDS
 040 ABSTRACT TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

B3851612 000 AA 900-SERIES 920/930 SYMBOL 8 UNBUF. PRINTER VERSION P VM
 010 AUTHOR XEROX
 020 851612-11A00 DESCRIPTION PRINTED
 030 851612-34A00 * SOURCE CARDS
 040 900688- XDS 900 SERIES SYMBOL TECHNICAL MANUAL
 050 ABSTRACT CONFIGURATION: XDS 920/930 WITH 6K-16K MEMORY, 9170 LINE PRINTER, PAPER TAPE INPUT.

B3851613 000 AA 9-SERIES 1-CARD DUMP PUNCH PROGRAM P VM
 010 AUTHOR XEROX
 020 851613-11A00 DESCRIPTION PRINTED
 030 851613-34A00 * SOURCE CARDS
 040 851613-51A00 LISTING PRINTED
 050 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
 060 A PAPER TAPE STATION ATTACHED TO ANY CHANNEL. THE DUMP ITSELF MAY BE PLACED ON A PRINTER ATTACHED TO
 070 ANY CHANNEL.
 080 COMMENTS COMPUTER CONFIGURATION: ANY 9-SERIES COMPUTER WITH META-SYMBOL ON THE SYSTEM

B3851614 000 AA 9-SERIES RAD TO MAGNETIC TAPE DUMP P VM
 010 AUTHOR XEROX
 020 851614-11A00 DESCRIPTION PRINTED
 030 851614-24A00 RELOCATABLE BINARY CARDS
 040 851614-34A00 * SOURCE CARDS
 050 ABSTRACT RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2
 060 MILLION, 1 MILLION OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON

070 THE RAD BY EXECUTING A TAPE FILL PROCEDURE,

B3851615 000 AA 930 DIGITAL I/O TEST FOR GD/C ATS D VM
010 AUTHOR XEROX
020 851615-11A00 DESCRIPTION PRINTED
030 851615-44A00 * COMPRESSED CARDS
040 ABSTRACT THIS PROGRAM WILL TEST THE DIGITAL I/O SUBSYSTEM OF THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET
050 SYSTEM.
060 COMMENTS HARDWARE CONFIGURATION: 930 COMPUTER, 12 'POT' CHANNELS, 12 'PIN' CHANNELS, 128 'SKS' CHANNELS, 220
070 'EOM' CHANNELS HEWLETT PACKARD 101A OSCILLATOR, SPECIAL XDS 24-BIT TEST REGISTER. THE HP 101A OSCILLATOR
080 IS CONNECTED THROUGH THE SPECIAL SYSTEMS LOGIC TO INTERRUPTS 204-210 (OCTAL).

B3851616 000 AA 930 ANALOG/DSC-II TEST FOR GD/C ATS D MM
010 AUTHOR XEROX
020 851616-11A00 DESCRIPTION PRINTED
030 851616-44A00 * COMPRESSED CARDS
040 ABSTRACT THIS PROGRAM WILL TEST THE OPERATION OF THE ANALOG/DSC-II SUBSYSTEM WITHIN THE GENERAL DYNAMICS/CONVAIR
050 AUTOMATIC TEST SET SYSTEM.
060 COMMENTS HARDWARE CONFIGURATION: 930 COMPUTER WITH DSC-II'S CONNECTED TO THE W AND X CHANNELS OF THE DMC, A 128
070 CHANNEL MULTIPLEXER AND A 15 BIT ADC THE DSC-II'S ACCESS THE UPPER 8K OF THE 16K MEMORY. INTERRUPTS
080 200, 203 AND 211 (OCTAL) ARE USED BY THE MULTIPLEXER/DSC-II'S.

B3851617 000 AA 930 ANALOG ACCURACY TEST FOR GD/C ATS D VM
010 AUTHOR XEROX
020 851617-11A00 DESCRIPTION PRINTED
030 851617-44A00 * COMPRESSED CARDS
040 851617-51A00 LISTING PRINTED
050 ABSTRACT THIS PROGRAM WILL TEST THE ACCURACY OF THE EIGHTDAC CHANNELS AND THE 128 MULTIPLEXER CHANNELS WITHIN THE
060 GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
070 COMMENTS HARDWARE CONFIGURATION: 930 COMPUTER, KEYBOARD/PRINTER ON THE TMCC W CHANNEL, DSC II ON THE DMC X
080 CHANNEL.

B3851618 000 AA 910 ANALOG TEST FOR G.D./CONVAIR D VM
010 AUTHOR XEROX
020 851618-11A00 DESCRIPTION PRINTED
030 851618-44A00 * COMPRESSED CARDS
040 851618-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM GIVES OPEN END AND CLOSED LOOP TESTS FOR ANALOG TO DIGITAL INPUTS. STATISTICAL TABULATIONS
060 ARE MADE ON RESULTS OF MASS READINGS.

070 COMMENTS HARDWARE REQUIREMENTS; XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR, 8K OF MEMCKRY, TTY,
080 AND ANALOG FRONT END,

B3851619 000 AA 910 SAMPLE AND HOLD TEST FOR G.D./CONVAIR D VM
010 AUTHOR XEROX
020 851619-11A00 DESCRIPTION PRINTED
030 851619-44A00 * COMPRESSED CARDS
040 851619-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM GIVES AN OPEN END TEST FOR SAMPLE AND HOLD ANALOG TO DIGITAL CHANNELS, VOLTAGES ARE INPUT
060 THROUGH THESE CHANNELS TO XDS 910 COMPUTER, SAMPLE AND HOLD VALUES OF A SINGLE INPUT ARE COMPARED FOR
070 ACCURACY,
080 COMMENTS HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR GENERL DYNAMICS/CONVAIR, 5 CHANNELS OF SAMPLE
090 AND HOLD ADC'S.

B3851620 000 AA 910 SPECIAL ACCEPTANCE TEST FOR G.D./CONVAIR D VM
010 AUTHOR XEROX
020 851620-11A00 DESCRIPTION PRINTED
030 851620-44A00 * COMPRESSED CARDS
040 851620-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM GIVES A DEMONSTRATION FOR THE VARIOUS FEATURES OF THE GENERAL DYNAMICS/CONVAIR 910 COMPUTER
060 SYSTEM.
070 COMMENTS HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR G.D.,
080 DEMUNSTRATES D/A, A/D, SYSTEM POT/PIN, SYSTEM EOM'S, SYSTEM SKS'S, AND SPECIAL REAL-TIME CLOCK.

B3851621 000 AA 900-SERIES SYMBOL (900 MONARCH) PART 3A = S3A N MM
010 AUTHOR XEROX
020 851621-35A00 850040-35 SOURCE MAG TAPE, 7 CHANNELS
030 ABSTRACT THIS PART OF THE SYMBOL ASSEMBLER COMPLETES THE LOADING THAT WAS STARTED BY SYMBAR IN (LDI2) MONARCH. IT
040 USES QSKCH TO FINDD THE MNEMONIC TABLE SPECIFIED IN THE CONTROL MESSAGE. THE TABLE IS THEN LOADED BY
050 QSYLDR, OVERLAYING S3A, AND CONTROL IS PASSED TO THE ASSEMBLER. THE PURPOSE OF S3A AND THE RESULTING
060 MODIFICATIONS REQUIRED IN SYMBAR IS TO SIMPLIFY THE SUPPORT TASK FOR SYMBOL UNDER MQNARCH AND TO
070 IMPLIMENT FULL UTILIZATION OF THE UNIT ASSIGNMENT TABLES OF MONARCH, IE, X1 WILL BE THE TAPE (OR DISC)
080 ASSIGNED TO X1, NOT ABSOLUTELY MT1.

B3852000 000 AA 9-SERIES 9-SERIES SOFTWARE NOTES COVER P MM
010 AUTHOR XEROX CORPORATION
020 852000-11A00 DESCRIPTION PRINTED
030 ABSTRACT THIS CATALOG NUMBER EXISTS FOR THE SOLE PURPOSE OF IMPLEMENTING THE 9-SERIES TECHNICAL NOTE CONCEPT
040 WHICH IS DESCRIBED IN THE -11. IT IS EFFECTIVELY A REFERENCE COVER NUMBER FOR ALL 9-SERIES SOFTWARE

050 (INCLUDING USER'S GROUP ITEMS) BUT HAS NO ORDERABLE ELEMENTS OTHER THAN THE PROGRAM DESCRIPTION (-11).
060 COMMENTS SUBSCRIPTIONS TO THE TECHNICAL NOTE SYSTEM ARE AVAILABLE BUT MUST BE PROCESSED THROUGH THE USER'S GROUP.

B3860000 000 AC 9300 TAPE MONITOR SYSTEM (COVER) P VM
010 AUTHOR XEROX
020 860000-11B00 DESCRIPTION PRINTED
030 860000-45B00 * COMPRESSED MAG TAPE, 7 CHANNELS
040 860000-74B00 CONTROL CARD AND TEST DECK
050 900513 9300 MONITOR REFERENCE MANUAL
060 900884 9300 MONITOR TECHNICAL MANUAL
070 ABSTRACT TO PROVIDE EFFICIENT SYSTEM OPERATIONS WITH MINIMUM OPERATOR INTERVENTION AND AN EASY-TO-USE INPUT/
080 OUTPUT FACILITY HAVING MAXIMUM EFFICIENCY WHILE TAKING INTO ACCOUNT THE NEEDS OF THE USER'S PROGRAM (I/O
090 OPERATIONS ARE PERFORMED SIMULTANEOUSLY WITH THE USER'S PROGRAM). THE RESIDENT MONITOR REQUIRES 11653
100 OCTAL LOCATIONS WITH THE PROCESSORS BEING OVERLAYED ('PING-PONGED') ABOVE THIS LOCATION.
110 COMMENTS THIS PROGRAM INCLUDES CATALOG NUMBERS 860001 THRU 860006, 860008 THRU 860031, 861080, AND 861081.

B3860007 000 AA 9300 7/8 LEVEL READER/PUNCH TEST D VM
010 AUTHOR XEROX
020 860007-11A00 DESCRIPTION PRINTED
030 860007-44A00 * COMPRESSED CARDS
040 860007-51A00 LISTING PRINTED
050 860007-84A00 ABSOLUTE BINARY CARDS
060 ABSTRACT VERIFIES THE CAPABILITIES OF THE READER AND PUNCH MECHANISMS AND ELECTRONICS. IT WILL OPERATE BOTH
070 READER AND PUNCH AT THEIR MAXIMUM SPEED. INTERLACE IS NOT USED.
080 COMMENTS REQUIRES AN XDS 9300 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, KEYBOARD PRINTER, AND A MODEL 9333 7-OR
090 8-LEVEL PAPER TAPE READER OR PUNCH CONNECTED AS UNIT NUMBER 1 OR 2 TO CHANNEL A.

B3860035 000 AB 9300 FCRT IV COMPILER AND LIBRARIES P VM
010 AUTHOR XEROX
020 860035-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS
030 860035-61A01 UPDATE INSTRUCTIONS PRINTED
040 860035-64A01 UPDATE ON CARDS
050 900883 XERUX FORTRAN IV TECH MANUAL
060 COMMENTS THIS PROGRAM INCLUDES CATALOG NUMBERS 860036 THRU 860074 AND COVER NUMBERS 860095 AND 860265.

B3860075 000 AA 9300 META-SYMBOL ASSEMBLER-COVER P MM
010 AUTHOR XEROX
020 860075-11A00 DESCRIPTION PRINTED
030 860075-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS

040 900506 900 SERIES/9300 SYMBOL AND META-SYMBOL REFERENCE MANUAL
 050 900827 META-SYMBOL TECHNICAL MANUAL
 060 ABSTRACT THE PRIMARY PURPOSE OF THE META-SYMBOL ASSEMBLY SYSTEM IS TO PROVIDE USER'S OF XDS COMPUTERS A PROCESSOR
 070 CAPABLE OF TRANSLATING SYMBOLIC LINES OF CODE (WRITTEN IN AN ADVANCED ASSEMBLY LANGUAGE) TO MACHINE
 080 LANGUAGE AND TO PROVIDE THE USER A LISTING OF THE MACHINE LANGUAGE GENERATED AS WELL AS A LOADABLE
 090 PROGRAM TAPE OR DECK.
 100 COMMENTS ANY XDS 9300 WITH A MINIMUM OF 8K MEMORY. SEE MANUAL NO. 900827; META-SYMBOL TECHNICAL MANUAL FOR A MORE
 110 DETAILED DESCRIPTION OF THE COMPUTER REQUIREMENTS

B3860095 000 AB 9300 FORTRAN IV LIBRARY P VM
 010 AUTHOR XEROX
 020 860095-11A00 DESCRIPTION PRINTED
 050 860095-45A00 860035-45 COMPRESSED MAG TAPE, 7 CHANNELS
 060 860095-61A01 860035-61 UPDATE INSTRUCTIONS PRINTED
 070 860095-64A01 860035-64 UPDATE ON CARDS
 090 COMMENTS THIS IS A PROGRAM PACKAGE CONTAINING ALL THE FORTRAN IV LIBRARY ROUTINES. ABSOLUTE BINARY CARDS ARE
 100 AVAILABLE ON MAG TAPE (860000-85), RELOCATABLE BINARY CARDS AVAILABLE ON MAG TAPE (860000-25).

B3860265 000 AB 9300 REAL-TIME FORTRAN IV LIBRARY P VM
 010 AUTHOR XEROX
 020 860265-45A00 860035-45 COMPRESSED MAG TAPE, 7 CHANNELS
 030 860265-61A01 860035-61 UPDATE INSTRUCTIONS PRINTED
 040 860265-64A01 860035-64 UPDATE ON CARDS
 050 COMMENTS THIS IS THE COVER NUMBER FOR THE REAL TIME FORTRAN IV LIBRARY. ABSOLUTE BINARY CARDS ARE AVAILABLE ON
 060 860265-85, THE ABSOLUTE BINARY TAPE.

B3860460 000 AA 9300 MACHINE LANGUAGE LIBRARY (COVER) P VM
 010 AUTHOR XEROX
 020 860460-24A00 860000-25 RELOCATABLE BINARY CARDS
 030 860460-84A00 860000-85 ABSOLUTE BINARY CARDS
 040 COMMENTS THIS COMMON SOFTWARE PACKAGE CONSISTS OF THE FOLLOWING ROUTINES: CARD READ SUBROUTINE=CDR, I/O HANDLER=
 050 CDRP, FLOATING POINT ARCTANGENT=ATF, FLOATING POINT SINE (COSINE)=SNF (CSF), FLOATING POINT COMPLEX,
 060 FLOATING POINT COMPLEX EXPONENTIAL, FLOATING POINT COMPLEX LOGARITHM, FLOATING POINT COMPLEX SQUARE ROOT
 070 =SQFC, FLOATING POINT COMPLEX ARCTANGENT=ATFC, FLOATING COMPLEX SINE AND COSINE=SNFC, FLT.PT. EXTENDED
 080 PRECISION SQUARE ROOT, FLT.PT. EXTENDED PRECISION NATURAL LOG, FLT. PT. EXTENDED PRECISION ARCTAN=ATFE,
 090 DECIMAL/BINARY CONVERSION, DECIMAL TO BINARY CONVERSION=DIBFX, PAPER TAPE AND TYPEWRITER SUBROUTINE=
 100 PTYIO, LINE PRINTER SUBROUTINE (PRINT), FLOATING NEGATE SUBROUTINE=FLN, EXPONENTIAL OF A=EXP, SIN OR COS
 110 OF A=SIN COS, ARCTAN OF A=ATN, SQUARE ROOT OF A=SQR, SQUARE ROOT FLOATING POINT=SQF, FLOATING POINT LOG=
 120 ARITHM=LGF, AND FLOATING-HYPERBOLIC SINE AND COSINE=SHF.

B3860475 000 AA 9300 9300 MANAGE SYSTEM (COVER) P MM
 010 AUTHOR XEROX
 020 860475-11A00 DESCRIPTION PRINTED
 030 860475-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS
 040 901046 900 SERIES/9300 MANAGE REFERENCE MANUAL
 050 COMMENTS THIS IS THE COVER NUMBER FOR THE XDS 9300 MANAGE SYSTEM, THIS PROGRAM PACKAGE CONTAINS THE FOLLOWING
 060 CATALOG NUMBERS: 860476 THRU 860489, PLEASE SEE THE APPROPRIATE PROGRAM FOR THE COMPUTER CONFIGURATION.

B3860490 000 AA 9300 9300 BUSINESS LANGUAGE LIBRARY-COVER P MM
 010 AUTHOR XEROX
 020 860490-11A00 DESCRIPTION PRINTED
 030 860490-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS
 040 901043 900 SERIES/9300 COMPUTERS BUSINESS LANG
 050 901022 XDS BUSINESS LANGUAGE REFERENCE MANUAL
 060 ABSTRACT TO PERFORM CHARACTER MANIPULATIONS, WORD MANIPULATIONS, DECIMAL ARITHMETIC, EDITING, AND INTERNAL
 070 SURTING FOR THE BUSINESS APPLICATIONS PROGRAMMER.
 080 COMMENTS SOURCE LANGUAGE: META-SYMBOL/XDS BUSINESS LANGUAGE SIZE: 1585 WORDS, WITH ALL SUBROUTINES RESIDENT,
 090 COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER, UNDER MONARCH, OR THE 9300, UNDER MONITOR.

B3860530 000 AA 9300 MONARCH SYSTEM (COVER) P MM
 010 AUTHOR XEROX
 020 860530-11A00 DESCRIPTION PRINTED
 030 860530-45A00 * COMPRESSED MAG TAPE, 7 CHANNELS
 040 860530-85A00 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 050 900566 900 SERIES/9300 MONARCH REFERENCE MANUAL
 060 900616 900 SERIES/9300 MONARCH TECHNICAL MANUAL
 070 ABSTRACT TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
 080 OPERATOR INTERVENTION.
 090 COMMENTS COMPUTER CONFIGURATION: ANY XDS 900 SERIES/ 9300 COMPUTER WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE
 100 TYPEWRITER, AND ONE OR MORE MAG TAPES, FOR DETAILS, SEE MONARCH REFERENCE MANUAL. (NO. 900566)

B3860563 000 AB 9300 MEDIA P VM
 010 AUTHOR XEROX
 020 860563-11B00 850642-11 DESCRIPTION PRINTED
 030 860563-35B00 850095-35 SOURCE MAG TAPE, 7 CHANNELS
 040 860563-84B00 ABSOLUTE BINARY CARDS
 050 ABSTRACT MEDIA WILL COPY VARIABLE LENGTH RECCRDS FROM BCD OR BINARY CARDS, PAPER OR MAG TAPE OR TYPEWRITER TO
 060 CARDS, PAPER TAPE, MAG TAPES, TYPEWRITER AND/OR LINE PRINTER.

070 COMMENTS THIS PROGRAM IS INCLUDED ON 860000, 9300 TAPE MONITOR, 860530, 9300 MONARCH. ITS SOURCE IS IDENTICAL
080 TO THAT FOR 850642. THE ABSOLUTE BINARY (STAND-ALONE) DECK CONTAINS THE REQUIRED I/O ROUTINES.

B3860592 000 AA 9300 PROJECT MANAGEMENT SYSTEM (CPM) COVER P MM
010 AUTHOR XEROX
020 860592-24A00 850161-25 RELOCATABLE BINARY CARDS
030 900818 XDS PROJECT MANAGEMENT SYSTEM REFERENCE MANUAL
040 900822 XDS PROJECT MANAGEMENT SYSTEM TECHNICAL MANUAL
050 901504 XDS EXTENDED PROJECT MANAGEMENT SYSTEMS
060 ABSTRACT THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM. WHICH CONSISTS OF THE FOLLOWING PROGRAMS;
070 CATALOG NO.-860593 860594 860595 860596 860597 860598
080 COMMENTS COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE
090 WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND AN OFF-LINE OR UN-LINE PRINTER. TWO 2400 FT. TAPES ARE
100 NEEDED FOR SOURCE MAG TAPE.

B3860605 000 AA 9300 9300 PAPER TAPE BASIC RELOCATABLE LOADER P VM
010 AUTHOR XEROX
020 860605-11A00 DESCRIPTION PRINTED
030 860605-34A00 * SOURCE CARDS
040 ABSTRACT TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM PAPER TAPE WHICH IS REPRESENTED IN THE XDS STANDARD
050 BINARY LANGUAGE FORMAT ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
060 COMMENTS SIZE: 68 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH PAPER TAPE READER.

B3860606 000 AA 9300 9300 DEBUG P VM
010 AUTHOR XEROX
020 860606-11A00 DESCRIPTION PRINTED
030 860606-24A00 RELOCATABLE BINARY CARDS
040 860606-34A00 * SOURCE CARDS
050 ABSTRACT THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN FUNCTIONS WHICH MAY BE PERFORMED BY THIS
060 ROUTINE, IE: 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR
070 TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED
080 POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
090 COMMENTS SIZE: 498 DECIMAL WORDS, CONFIGURATION: ANY XDS 9300 COMPUTER.

B3860607 000 AA 9300 BASIC UTILITY PACKAGE 9300 P VM
010 AUTHOR XEROX
020 860607-11A00 DESCRIPTION PRINTED
030 860607-44A00 * COMPRESSED CARDS
040 ABSTRACT 860607-84A00 ABSOLUTE BINARY CARDS

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

B3860608 000 AA 9300 BINARY DUMP PAPER TAPE OR CARDS P VM
010 AUTHCR XEROX
020 860608-11A00 DESCRIPTION PRINTED
030 860608-44A00 * COMPRESSED CARDS
040 860608-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO DUMP MEMORY IN STANDARD BINARY FORMAT ON PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE
060 PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
070 COMMENTS SOURCE LANGUAGE: SYMBOL SIZE: 251 DECIMAL WORDS CONFIGURATION: ANY XDS COMPUTER WITH PAPER TAPE AND/OR
080 CARD I/O

B3860609 000 AA 9300 UNIVERSAL LOADER P VM
010 AUTHOR XEROX
020 860609-11A00 DESCRIPTION PRINTED
030 860609-44A00 * COMPRESSED CARDS
040 860609-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER
060 PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER
070 BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
080 COMMENTS SIZE: 546 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND/OR PHOTO READER AND
090 A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR
100 PAPER TAPE.

B3860610 000 AA 9300 9300 REAL TIME DEBUG P VM
010 AUTHOR XEROX
020 860610-11A00 DESCRIPTION PRINTED
030 860610-84A00 ABSOLUTE BINARY CARDS
040 ABSTRACT THIS IS A RELOCATABLE UTILITY PROGRAM WHICH WILL AID THE USER IN DEBUGGING UNDER AN INTERRUPT
050 ENVIRONMENT. IT IS PARTICULARLY USEFUL FOR LARGE, COMPLEX SYSTEM PROGRAMS, SUCH AS MONITORS AND OTHER
060 REAL-TIME FUNCTIONS, OPERATIONS WHICH MAY BE PERFORMED BY THIS PROGRAM: DUMPS, ALTERATIONS, INSERTIONS,
070 SNAPSHOTS, SELECTIVE TRACING, PROGRAM LOADING AND PUNCHING.

080 COMMENTS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH TYPEWRITER (A CHANNEL) AND INTERLACE, BUFFERED
090 PRINTER, CARD READER, CARD PUNCH, PAPER TAPE READER AND PUNCH ARE OPTIONALLY REQUIRED FOR CERTAIN DEBUG
100 FUNCTIONS.

B3860611 000 AA 9300 UTILITY AND DEBUG PACKAGE (AID) P VM

010 AUTHOR XEROX

020 860611-11A00 DESCRIPTION PRINTED

030 860611-44A00 * COMPRESSED CARDS

040 860611-84A00 ABSOLUTE BINARY CARDS

050 ABSTRACT PROVIDE VARIOUS UTILITY ROUTINES AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM
060 CHECKOUT.

070 COMMENTS SOURCE LANGUAGE: META SYMBOL SIZE: 2606 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER
080 WITH A CONSOLE TYPEWRITER.

B3860612 000 AA 9300 RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS P VM

010 AUTHOR XEROX

020 860612-11A00 DESCRIPTION PRINTED

030 860612-24A00 RELOCATABLE BINARY CARDS

040 860612-34A00 * SOURCE CARDS

050 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS
060 SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER, THE METHOD REQUIRES FOUR
070 EVALUATIONS OF THE DERIVATIVES AT EACH STEP.

080 COMMENTS SIZE: 93 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER.

B3860613 000 AA 9300 RUNGE-KUTTA GILL DIFF. EQU. FLOAT. POINT P VM

010 AUTHOR XEROX

020 860613-11A00 DESCRIPTION PRINTED

030 860613-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS

040 860613-24A00 RELOCATABLE BINARY CARDS

050 860613-34A00 * SOURCE CARDS

060 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS
070 SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER, THE METHOD REQUIRES FOUR
080 EVALUATIONS OF THE DERIVATIVES AT EACH STEP.

090 COMMENTS SIZE: 103 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
100 SUBROUTINES.

B3860614 000 AA 9300 POLYNOMIAL EVALUATION (COMPLEX ARGUMENT) P VM

010 AUTHOR XEROX

020 860614-11A00 DESCRIPTION PRINTED

030 860614-24A00 RELOCATABLE BINARY CARDS
 040 860614-34A00 * SOURCE CARDS
 050 ABSTRACT TO EVALUATE AN NTH ORDER POLYNOMIAL WITH REAL COEFFICIENTS FOR A COMPLEX ARGUMENT, A+BI.
 060 COMMENTS SIZE: 61 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 070 SUBROUTINES.

B3860615 000 AA 9300 ADAMS=MOULTON DIFFERENTIAL EQUATIONS P VM
 010 AUTHOR XEROX
 020 860615-11A00 DESCRIPTION PRINTED
 030 860615-24A00 RELOCATABLE BINARY CARDS
 040 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED
 050 BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STOP.
 060 COMMENTS SIZE: 208 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER

B3860616 000 AA 9300 FLOATING NEGATE SUBROUTINE - FLN P MM
 010 AUTHOR XEROX
 020 860616-11A00 DESCRIPTION PRINTED
 030 860616-24A00 RELOCATABLE BINARY CARDS
 040 860616-34A00 * SOURCE CARDS
 050 ABSTRACT TO NEGATE THE FLOATING POINT CONTENTS OF (A,B).
 060 COMMENTS SIZE: 26 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860617 000 AA 9300 PROGRAMMED FLOATING POINT PACKAGE-FLPT P VM
 010 AUTHOR XEROX
 020 860617-11A00 DESCRIPTION PRINTED
 030 860617-34A00 * SOURCE CARDS
 040 860617-51A00 LISTING PRINTED
 050 860617-24A00 RELOCATABLE BINARY CARDS
 060 ABSTRACT TO SIMULATE THE FLOATING-POINT HARDWARE ON AN XDS 9300 WHICH DOES NOT HAVE HARDWARE FLOATING-POINT OR ON
 070 WHICH THE HARDWARE FLOATING POINT HAS BEEN DISABLED.
 080 COMMENTS SIZE: 150 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860618 000 AA 9300 EXPONENTIAL OF A - EXP P MM
 010 ALTHOR XEROX
 020 860618-11A00 DESCRIPTION PRINTED
 030 860618-24A00 RELOCATABLE BINARY CARDS
 040 860618-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE EXPONENTIAL (BASE E) OF A SPECIFIED ARGUMENT.
 060 COMMENTS SIZE: 63 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860619 000 AA 9300 SIN OR COS OF A = SIN COS P MM
 010 AUTHOR XEROX
 020 860619-11A00 DESCRIPTION PRINTED
 030 860619-24A00 RELOCATABLE BINARY CARDS
 040 ABSTRACT TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS.
 050 COMMENTS SIZE: 59 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860620 000 AA 9300 ARCTAN OF A = ATN P MM
 010 AUTHOR XEROX
 020 860620-11A00 DESCRIPTION PRINTED
 040 860620-24A00 RELOCATABLE BINARY CARDS
 050 860620-34A00 * SOURCE CARDS
 060 ABSTRACT TO COMPUTE ARCTAN Y/X IN RADIANS AND QUADRANTAL-LOCATE THE RESULTS.
 070 COMMENTS SIZE: 87 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860621 000 AA 9300 DOUBLE PRECISION MULTIPLY SUBROUTINE-DPM P VM
 010 ALTHCR XEROX
 020 860621-11A00 DESCRIPTION PRINTED
 030 860621-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
 040 860621-24A00 RELOCATABLE BINARY CARDS
 050 860621-34A00 * SOURCE CARDS
 060 ABSTRACT TO PROVIDE THE DOUBLE PRECISION PRODUCT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
 070 COMMENTS SIZE: 29 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860622 000 AA 9300 SQUARE ROOT OF A = SQR P MM
 010 AUTHOR XEROX
 020 860622-11A00 DESCRIPTION PRINTED
 030 860622-24A00 RELOCATABLE BINARY CARDS
 040 860622-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE SQUARE ROOT OF A SPECIFIED ARGUMENT.
 060 COMMENTS SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860623 000 AA 9300 SQUARE ROOT FLOATING POINT = SQF P MM
 010 AUTHCR XEROX
 020 860623-11A00 DESCRIPTION PRINTED
 030 860623-24A00 RELOCATABLE BINARY CARDS
 040 860623-34A00 * SOURCE CARDS
 050 ABSTRACT TO EXTRACT THE SQUARE ROOT OF A SPECIFIED FLOATING POINT ARGUMENT.

060 COMMENTS SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860624 000 AA 9300 DOUBLE PRECISION DIVIDE SUBROUTINE=DPD P VM
010 AUTHOR XEROX
020 860624=11A00 DESCRIPTION PRINTED
030 860624=24A00 RELOCATABLE BINARY CARDS
040 860624=34A00 * SOURCE CARDS
050 ABSTRACT TO PROVIDE THE DOUBLE PRECISION QUOTIENT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
060 COMMENTS SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860625 000 AA 9300 FLOATING POINT LOGARITHM = LGF P MM
010 AUTHOR XEROX
020 860625=11A00 DESCRIPTION PRINTED
030 860625=24A00 RELOCATABLE BINARY CARDS
040 860625=34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT ARGUMENT.
060 COMMENTS SIZE: 60 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860626 000 AA 9300 FLOATING-HYPERBOLIC SINE AND COSINE=SHF P MM
010 AUTHOR XEROX
020 860626=11A00 DESCRIPTION PRINTED
030 860626=24A00 RELOCATABLE BINARY CARDS
040 860626=34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING-POINT HYPERBOLIC SINE AND COSINE OF A SPECIFIED FLOATING POINT ARGUMENT.
060 COMMENTS SIZE: 80 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860627 000 AA 9300 FLOATING POINT EXPONENTIAL = EXP P MM
010 AUTHOR XEROX
020 860627=11A00 DESCRIPTION PRINTED
030 860627=24A00 RELOCATABLE BINARY CARDS
040 860627=34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT ARGUMENT.
060 COMMENTS SIZE: 69 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860628 000 AA 9300 FLOATING POINT SINE (COSINE)=SNF (CSF) P MM
010 AUTHOR XEROX
020 860628=11A00 DESCRIPTION PRINTED
030 860628=24A00 RELOCATABLE BINARY CARDS
040 860628=34A00 * SOURCE CARDS

050 ABSTRACT TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS.
060 COMMENTS SIZE:74 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

B3860629 000 AA 9300 FLOATING POINT ARCTANGENT = ATF P MM
010 AUTHOR XEROX
020 860629-11A00 DESCRIPTION PRINTED
030 860629-24A00 RELOCATABLE BINARY CARDS
040 860629-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
060 COMMENTS SIZE:105 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

B3860630 000 AA 9300 FLOATING POINT, COMPLEX ARITH. PACKAGE P MM
010 AUTHOR XEROX
020 860630-11A00 DESCRIPTION PRINTED
030 860630-24A00 RELOCATABLE BINARY CARDS
040 860630-34A00 * SOURCE CARDS
050 ABSTRACT TO PROVIDE THE FOLLOWING FLOATING POINT, COMPLEX ARITHMETIC OPERATIONS: LDFC: (CM) REPLACES (CA) STFC:
060 (CA) REPLACES (CM) FLAC: (CA)+(CM) REPLACES (CA) FLSC: (CA)+(CM) REPLACES (CA) FLMC: (CA)+(CM) REPLACES
070 (CA) FLDC: (CA)/(CM) REPLACES (CA) FLNC: (CA) REPLACES (CA) (CA DENOTES THE PSEUDO COMPLEX ACCUMULATOR
080 WITH REAL PART IN CA, CA+1, IMAGINARY PART IN CA+2,CA+3, CM DENOTES COMPLEX OPERAND WITH REAL PART IN M,
090 M+1 IMAGINARY PART IN M+2,M+3).
100 COMMENTS SIZE:129 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

B3860631 000 AA 9300 FLOATING POINT COMPLEX EXPONENTIAL=EXFC P MM
010 AUTHOR XEROX
020 860631-11A00 DESCRIPTION PRINTED
030 860631-24A00 RELOCATABLE BINARY CARDS
040 860631-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT COMPLEX EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING COMPLEX ARGUMENT.
060 COMMENTS SIZE:15 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

B3860632 000 AA 9300 FLOATING POINT COMPLEX LOGARITHM = LNFC P MM
010 AUTHOR XEROX
020 860632-11A00 DESCRIPTION PRINTED
030 860632-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE THE FLOATING POINT COMPLEX, NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
050 COMMENTS SIZE:21 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

B3860633 000 AA 9300 FLOATING POINT COMPLEX SQUARE ROOT=SQFC P MM

010 AUTHOR XEROX
 020 860633-11A00 DESCRIPTION PRINTED
 030 860633-24A00 RELOCATABLE BINARY CARDS
 040 860633-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT COMPLEX SQUARE ROOT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
 060 COMMENTS SIZE:29 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300.

B3860634 000 AA 9300 FLOATING POINT COMPLEX ARCTANGENT - ATFC P MM
 010 AUTHOR XEROX
 020 860634-11A00 DESCRIPTION PRINTED
 030 860634-24A00 RELOCATABLE BINARY CARDS
 040 860634-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT COMPLEX ARCTANGENT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
 060 COMMENTS SIZE:46 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300.

B3860635 000 AA 9300 FLOATING COMPLEX SINE AND COSINE - SNFC P MM
 010 AUTHOR XEROX
 020 860635-11A00 DESCRIPTION PRINTED
 030 860635-24A00 RELOCATABLE BINARY CARDS
 040 860635-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT COMPLEX SINE AND COSINE OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
 060 COMMENTS SIZE:30 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300.

B3860636 000 AA 9300 LOGARITHM SUBROUTINE TO BASE E OR 10 P VM
 010 AUTHOR XEROX
 020 860636-11A00 DESCRIPTION PRINTED
 030 860636-24A00 RELOCATABLE BINARY CARDS
 040 860636-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE LOGARITHM, TO BASE E OR 10, OF AN ARGUMENT IN THE A REGISTER.
 060 COMMENTS SIZE: 64 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300

B3860637 000 AA 9300 FL. PT. EXTENDED PRECISION SQUARE ROOT P MM
 010 AUTHOR XEROX
 020 860637-11A00 DESCRIPTION PRINTED
 030 860637-24A00 RELOCATABLE BINARY CARDS
 040 860637-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SQUARE ROOT OF A SPECIFIED FLOATING POINT EXTENDED
 060 PRECISION ARGUMENT.
 070 COMMENTS SIZE:23 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300.

B3860638 000 AA 9300 EXTENDED PRECISION ARITHMETIC PACKAGE P VM
 010 AUTHOR XEROX
 020 860638-11A00 DESCRIPTION PRINTED
 030 860638-24A00 RELOCATABLE BINARY CARDS
 040 860638-34A00 * SOURCE CARDS
 050 ABSTRACT TO PROVIDE THE FOLLOWING FLOATING POINT AND FIXED POINT EXTENDED PRECISION ARITHMETIC OPERATIONS.
 060 FLOATING POINT LDFE: (EM) REPLACES (EA) STFE: (EA) REPLACES (EM) FLAE: (EA)+(EM) REPLACES (EA) FLSE:
 070 (EA)-(EM) REPLACES (EA) FLME: (EA)*(EM) REPLACES (EA) FLDE: (EA)>(EM) REPLACES (EA) FLNE: -(EA) REPLACES
 080 (EA) FIXED POINT TPM: (EA)*(EM) REPLACES (EA) TPA: (EA)+(EM) REPLACES (EA) (EA DENOTES THE PSEUDO
 090 EXTENDED ACCUMULATOR AND EM DENOTES THE EXTENDED OPERAND IN MEMORY).
 100 COMMENTS SIZE: 481 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300

B3860639 000 AA 9300 BINARY TO DECIMAL CONVERSION-BTDFL1 P VM
 010 AUTHOR XEROX
 020 860639-11A00 DESCRIPTION PRINTED
 030 860639-24A00 RELOCATABLE BINARY CARDS
 040 860639-34A00 * SOURCE CARDS
 050 ABSTRACT TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
 060 STORE IT IN 4 CONSECUTIVE LOCATIONS.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 197 DECIMAL WORDS COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING
 080 POINT HARDWARE OR EQUIVALENT SUBROUTINES.

B3860640 000 AA 9300 BINARY TO BCD CONVERTED BTDFX2,BTDFL2 P VM
 010 AUTHOR XEROX
 020 860640-11A00 DESCRIPTION PRINTED
 030 860640-24A00 RELOCATABLE BINARY CARDS
 040 860640-34A00 * SOURCE CARDS
 050 ABSTRACT TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
 060 STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7 DIGIT EQUIVALENT STORED IN
 070 3 CONSECUTIVE LOCATIONS
 080 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE 222 DECIMAL WORDS, COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING
 090 POINT HARDWARE OR EQUIVALENT SUBROUTINES.

B3860641 000 AA 9300 ONE CARD OCTAL MEMORY DUMP (PRINTER) P VM
 010 AUTHOR XEROX
 020 860641-11A00 DESCRIPTION PRINTED
 030 860641-34A00 * SOURCE CARDS
 040 860641-84A00 ABSOLUTE BINARY CARDS

050 ABSTRACT TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
060 COMMENTS COMPUTER CONFIGURATION; ANY XDS 9300 WITH LINE PRINTER.

B3860642 000 AA 9300 FL, PT.EXTENDED PRECISION EXPONENTIAL P VM
010 AUTHOR XEROX
020 860642-11A00 DESCRIPTION PRINTED
030 860642-24A00 RELOCATABLE BINARY CARDS
040 860642-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT EXTENDED PRECISION EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT
060 EXTENDED PRECISION ARGUMENT.
070 COMMENTS SIZE: 121 DECIMAL WORDS, COMPUTER CONFIGURATION; ANY XDS 9300.

B3860643 000 AA 9300 DECIMAL/BINARY CONVERSION ROUTINES P MM
010 AUTHOR XEROX
020 860643-11A00 DESCRIPTION PRINTED
030 860643-24A00 RELOCATABLE BINARY CARDS
040 860643-34A00 * SOURCE CARDS
050 ABSTRACT TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
060 STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7-DIGIT EQUIVALENT STORED IN
070 3 CONSECUTIVE LOCATIONS; TO CONVERT AN 11-DIGIT NUMBER IN SCIENTIFIC NOTATION TO ITS FLOATING BINARY
080 EQUIVALENT.
090 COMMENTS SIZE:318 DECIMAL WORDS. COMPUTER CONFIGURATION;XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
100 SUBROUTINES.

B3860644 000 AA 9300 DECIMAL TO BINARY CONVERSION - DTBFX P MM
010 AUTHOR XEROX
020 860644-11A00 DESCRIPTION PRINTED
030 860644-24A00 RELOCATABLE BINARY CARDS
040 860644-34A00 * SOURCE CARDS
050 ABSTRACT TO CONVERT A SIGNED BCD NUMBER TO ITS FIXED POINT BINARY EQUIVALENT AT A GIVEN SCALING.
060 COMMENTS SIZE:80 DECIMAL WORDS, COMPUTER CONFIGURATION;ANY XDS 9300.

B3860645 000 AA 9300 9300 DISPLAY CONVERSION (DISCV)-S SEE P VM
010 AUTHOR XEROX
020 860645-11A00 DESCRIPTION PRINTED
030 860645-24A00 RELOCATABLE BINARY CARDS
040 860645-34A00 * SOURCE CARDS
050 ABSTRACT TO CONVERT A FLOATING POINT BINARY NUMBER INTO THE FOLLOWING ONE-WORD FORMAT, WITH SPEED OF CONVERSION
060 THE PRIMARY CONSIDERATION:↑OR-XXXXOR-EE

070 COMMENTS SIZE:323 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860646 000 AA 9300 FL, PT, EXTENDED PRECISION NATURAL LOG P MM
010 AUTHOR XEROX
020 860646-11A00 DESCRIPTION PRINTED
030 860646-24A00 RELOCATABLE BINARY CARDS
040 860646-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT EXTENDED PRECISION NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT
060 EXTENDED PRECISION ARGUMENT.
070 COMMENTS SIZE:147 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300.

B3860647 000 AA 9300 F, P, EXTENDED PRECISION SIN (COS)-SNFE P VM
010 AUTHOR XEROX
020 860647-11A00 DESCRIPTION PRINTED
030 860647-24A00 RELOCATABLE BINARY CARDS
040 860647-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SINE (COSINE) OF A SPECIFIED FLOATING POINT EXTENDED
060 PRECISION ARGUMENT IN RADIANS.
070 COMMENTS SIZE: 163 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860648 000 AA 9300 PAPER TAPE AND TYPEWRITER SUBROUTINE P MM
010 AUTHOR XEROX
020 860648-11A00 DESCRIPTION PRINTED
030 860648-24A00 RELOCATABLE BINARY CARDS
040 860648-44A00 * COMPRESSED CARDS
050 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE
060 AND INTERRUPTS ARE USED.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE:345 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300 WITH A
080 TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.

B3860650 000 AA 9300 FL, PT, EXTENDED PRECISION ARCTAN - ATFE P MM
010 AUTHOR XEROX
020 860650-11A00 DESCRIPTION PRINTED
030 860650-24A00 RELOCATABLE BINARY CARDS
040 860650-44A00 * COMPRESSED CARDS
050 ABSTRACT TO COMPUTE THE FLOATING POINT EXTENDED PRECISION ARCTANGENT OF THE RATIO OF TWO SPECIFIED FLOATING POINT
060 EXTENDED PRECISION ARGUMENTS.
070 COMMENTS SIZE:222 DECIMAL WORDS, COMPUTER CONFIGURATION:ANY XDS 9300.

B3860651 000 AA 9300 REAL MATRIX ADDITION-RMADD P VM
 010 AUTHOR XEROX
 020 860651-11A00 DESCRIPTION PRINTED
 030 860651-24A00 RELOCATABLE BINARY CARDS
 040 860651-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
 060 COMMENTS SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860652 000 AA 9300 REAL MATRIX SUBTRACTION - RMSUB P MM
 010 AUTHOR XEROX
 020 860652-11A00 DESCRIPTION PRINTED
 030 860652-24A00 RELOCATABLE BINARY CARDS
 040 ABSTRACT TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES.
 050 COMMENTS SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860653 000 AA 9300 REAL MATRIX TRANSPOSE-RMTRA P VM
 010 AUTHOR XEROX
 020 860653-11A00 DESCRIPTION PRINTED
 030 860653-24A00 RELOCATABLE BINARY CARDS
 040 860653-34A00 * SOURCE CARDS
 050 ABSTRACT TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FROM, INTO ANOTHER REGION OF MEMORY. THE
 060 TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
 070 COMMENTS SOURCE LANGUAGE: FORTRAN IV. SIZE: 69 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860654 000 AA 9300 REAL MATRIX MULTIPLY-RMMUL P VM
 010 AUTHOR XEROX
 020 860654-11A00 DESCRIPTION PRINTED
 030 860654-24A00 RELOCATABLE BINARY CARDS
 040 860654-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.
 060 COMMENTS SOURCE LANGUAGE: FORTRAN IV. SIZE: 108 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860655 000 AA 9300 REAL MATRIX INVERSION-RMINV P VM
 010 AUTHOR XEROX
 020 860655-11A00 DESCRIPTION PRINTED
 030 860655-24A00 RELOCATABLE BINARY CARDS
 040 860655-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS, IF THE MATRIX IS SINGULAR,
 060 OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM

070 RETURNS WITH A DETERMINANT OF ZERO AND INDICATES THE RANK OF THE MATRIX.
080 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 673 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860656 000 AA 9300 COMPLEX MATRIX ADDITION=CMADD P VM
010 AUTHOR XEROX
020 860656-11A00 DESCRIPTION PRINTED
030 860656-24A00 RELOCATABLE BINARY CARDS
040 860656-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
060 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 85 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860657 000 AA 9300 COMPLEX MATRIX INVERSION=CMINV P VM
010 AUTHOR XEROX
020 860657-11A00 DESCRIPTION PRINTED
030 860657-24A00 RELOCATABLE BINARY CARDS
040 860657-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF COMPLEX ELEMENTS. IF THE MATRIX IS
060 SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE
070 SUBPROGRAM RETURN WITH A DETERMINANT OF COMPLEX ZERO AND INDICATES THE RANK OF THE MATRIX.
080 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 794 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860658 000 AA 9300 COMPLEX MATRIX MULTIPLICATION=CMMUL P VM
010 AUTHOR XEROX
020 860658-11A00 DESCRIPTION PRINTED
030 860658-24A00 RELOCATABLE BINARY CARDS
040 860658-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF COMPLEX ELEMENTS.
060 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 118 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860659 000 AA 9300 COMPLEX MATRIX SUBTRACTION=CMSUB P VM
010 AUTHOR XEROX
020 860659-11A00 DESCRIPTION PRINTED
030 860659-24A00 RELOCATABLE BINARY CARDS
040 860659-34A00 * SOURCE CARDS
050 ABSTRACT TO COMPUTE AND STORE THE DIFFERENCE BETWEEN TWO RECTANGULAR COMPLEX MATRICES.
060 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 85 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860660 000 AA 9300 COMPLEX MATRIX TRANSPOSE=CMTRA P VM
010 AUTHOR XEROX

020 860660-11A00 DESCRIPTION PRINTED
030 860660-24A00 RELOCATABLE BINARY CARDS
040 860660-34A00 * SOURCE CARDS
050 ABSTRACT TO COPY A RECTANGULAR MATRIX OF COMPLEX ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE
060 TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
070 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 71 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860661 000 AA 9300 EXAMINER DIAGNOSTIC (COVER) D VM
010 AUTHOR XEROX
020 860661-11A00 900624 DESCRIPTION PRINTED
030 860661-24A00 RELOCATABLE BINARY CARDS
040 900624 XDS 9300 EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
060 COMMENTS SEE MANUAL NO. 900624: FOR THE COMPUTER CONFIGURATION.

B3860662 000 AA 9300 VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC D MM
010 AUTHOR XEROX
020 860662-11A00 900624 DESCRIPTION PRINTED
030 860662-34A00 * SOURCE CARDS
040 860662-84A00 ABSOLUTE BINARY CARDS
050 COMMENTS SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. THIS PROGRAM IS PART
060 OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

B3860663 000 AA 9300 MEMORY DIAGNOSTIC D MM
010 AUTHOR XEROX
020 860663-11A00 900624 DESCRIPTION PRINTED
030 860663-34A00 * SOURCE CARDS
040 860663-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
060 COMMENTS THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.

B3860664 000 AA 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC D MM
010 AUTHOR XEROX
020 860664-11A00 900624 DESCRIPTION PRINTED
030 860664-44A00 * COMPRESSED CARDS
040 860664-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
060 COMMENTS THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

B3860665 000 AA 9300 P AND S REGISTER TESTER D MM
 010 AUTHOR XEROX
 020 860665-11A00 900624 DESCRIPTION PRINTED
 030 860665-34A00 * SOURCE CARDS
 040 860665-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT SEE MANUAL NO. 900624; 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
 060 COMMENTS THIS PROGRAM IS PART OF CATALOG NUMBER 860661, SEE THIS CATALOG NO. FOR THE COMPUTER CONFIGURATION.

B3860666 000 AA 9300 SEMI-AUTOMATIC TYPEWRITER TEST (SATT) D MM
 010 AUTHOR XEROX
 020 860666-11A00 DESCRIPTION PRINTED
 030 860666-44A00 * COMPRESSED CARDS
 040 860666-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE
 060 TYPEWRITER WHEN USED IN THE ON-LINE MODE.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 267 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A
 080 TYPEWRITER.

B3860667 000 AA 9300 INTERRUPT EXERCISER D MM
 010 AUTHOR XEROX
 020 860667-11A00 DESCRIPTION PRINTED
 030 860667-24A00 RELOCATABLE BINARY CARDS
 040 860667-34A00 * SOURCE CARDS
 050 ABSTRACT THIS EXERCISER WILL EXECUTE THE 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC (DOC), CATALOG NO. 860664, IN AN
 060 INTERRUPT ENVIRONMENT. A SPECIAL PURPOSE DIAGNOSTIC MAY BE SUBSTITUTED FOR DOC.
 070 COMMENTS SOURCE LANGUAGE: SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH INTERLACE,
 080 BUFFERED PRINTER 1, CHANNEL A, AND AT LEAST 8K MEMORY.

B3860669 000 AA 9300 SINE/COSINE SINRX, COSRX, SINDX, COSDX P VM
 010 AUTHOR XEROX
 020 860669-11A00 DESCRIPTION PRINTED
 030 860669-24A00 RELOCATABLE BINARY CARDS
 040 860669-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS (SINRX, COSRX) OR DEGREES (SINDX, COSDX)
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 84 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860670 000 AA 9300 9300 EXPONENTIAL (E OR 10) EXPNX, EXPTX P VM
 010 AUTHOR XEROX
 020 860670-11A00 DESCRIPTION PRINTED

030 860670-24A00 RELOCATABLE BINARY CARDS
 040 860670-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE EXPONENTIAL (BASE E OR 10) OF A SPECIFIED ARGUMENT.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860671 000 AA 9300 9300 ARCTANGENT ATNRX,ATNDX P VM
 010 AUTHOR XEROX
 020 860671-11A00 DESCRIPTION PRINTED
 030 860671-24A00 RELOCATABLE BINARY CARDS
 040 860671-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE ARCTAN Y/X IN RADIANS OR DEGREES AND QUADRANTALLOCATE THE RESULT.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 96 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860672 000 AA 9300 FLOATING POINT EXPONENTIAL EXPN,EXFT P VM
 010 AUTHOR XEROX
 020 860672-11A00 DESCRIPTION PRINTED
 030 860672-24A00 RELOCATABLE BINARY CARDS
 040 860672-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E OR 10) OF A SPECIFIED FLOATING POINT ARGUMENT.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860673 000 AA 9300 F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD) P VM
 010 AUTHOR XEROX
 020 860673-11A00 DESCRIPTION PRINTED
 030 860673-24A00 RELOCATABLE BINARY CARDS
 040 860673-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS R OR
 060 DEGREES D,
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 88 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860674 000 AA 9300 LOGARITHM (BASE E OR 10)-LGFN,LGFT P VM
 010 AUTHOR XEROX
 020 860674-11A00 DESCRIPTION PRINTED
 030 860674-24A00 RELOCATABLE BINARY CARDS
 040 860674-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT LOGARITHM TO BASE E OR 10 OF A SPECIFIED FLOATING POINT ARGUMENT.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860675 000 AA 9300 FL. PT. ARCTANGENT-ATFR,ATFD P VM

010 AUTHOR XEROX
 020 860675-11A00 DESCRIPTION PRINTED
 030 860675-24A00 RELOCATABLE BINARY CARDS
 040 860675-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE FLOATING POINT ARCTANGENT (IN DEGREES OR ADIANS) OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 117 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860676 000 AA 9300 ARCSINE, ARCCOSINE (DEGREES-RADIANS) P VM
 010 AUTHOR XEROX
 020 860676-11A00 DESCRIPTION PRINTED
 030 860676-24A00 RELOCATABLE BINARY CARDS
 040 860676-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE (IN DEGREES (D) OR RADIANS) THE FLOATING POINT SIN⁻¹ AND COS⁻¹ OF A GIVEN ARGUMENT. VALUES
 060 WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN⁻¹, AND IN THE FIRST OR SECOND QUADRANT FOR COS⁻¹.
 070 COMMENTS SIZE: 126 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 080 SUBROUTINES.

B3860677 000 AA 9300 ARCSINE, ARCCOSINE-ASN_X, ACS_X, ASNDC, ACSDX P VM
 010 AUTHOR XEROX
 020 860677-11A00 DESCRIPTION PRINTED
 030 860677-24A00 RELOCATABLE BINARY CARDS
 040 860677-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE (IN DEGREES (D) OR RADIANS) THE SIN₋₁ AND COS₋₁ OF A GIVEN ARGUMENT IN THE A REGISTER AT A
 060 BINARY POINT OF 1. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN₋₁, AND IN THE FIRST AND SECOND
 070 QUADRANT FOR COS₋₁. VALUES IN RADIANS WILL BE AT A BINARY POINT OF 2, VALUES IN DEGREES WILL BE AT A
 080 BINARY POINT OF 8.
 090 COMMENTS SIZE: 101 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860678 000 AA 9300 TANGENT-TAN, TAND P VM
 010 AUTHOR XEROX
 020 860678-11A00 DESCRIPTION PRINTED
 030 860678-24A00 RELOCATABLE BINARY CARDS
 040 860678-34A00 * SOURCE CARDS
 050 ABSTRACT TO COMPUTE THE TANGENT OF A FLOATING POINT NUMBER EXPRESSED IN DEGREES (TAND) OR RADIANS (TAN).
 060 COMMENTS SIZE: 123 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 070 SUBROUTINES.

B3860679 000 AA 9300 INTERNAL SORT (SORTAC, SORTDC) P VM
 010 AUTHOR XEROX

020 860679-11A00 DESCRIPTION PRINTED
 030 860679-24A00 RELOCATABLE BINARY CARDS
 040 860679-44A00 * COMPRESSED CARDS
 050 ABSTRACT TO SORT AN INTERNAL ARRAY IN EITHER ASCENDING OR DESCENDING ORDER, THE ARRAY MAY BE OF ANY NUMBER OF
 060 UNIFORMLY LONG ITEMS WHICH MAY BE ONE OR MORE WORDS, BOTH THE KEY BITS AND THEIR ORDER OF PRECEDENCE MAY
 070 BE SPECIFIED.
 080 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 485 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860680 000 AA 9300 TANGENT=TANX,TANX(DEGREES OR RADIANS) P VM
 010 AUTHOR XEROX
 020 860680-11A00 DESCRIPTION PRINTED
 030 860680-22A00 RELOCATABLE BINARY PAPER TAPE, 7 LEVELS
 040 860680-24A00 RELOCATABLE BINARY CARDS
 050 860680-34A00 * SOURCE CARDS
 060 ABSTRACT TO COMPUTE THE TANGENT OF A FIXED POINT NUMBER EXPRESSED IN DEGREES (TANX) OR RADIANS (TANX).
 070 COMMENTS SIZE: 112 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860681 000 AA 9300 HYBRID RUNGE-KUTIA GILL INTEGRATION P VM
 010 AUTHOR XEROX
 020 860681-11A00 DESCRIPTION PRINTED
 030 860681-24A00 RELOCATABLE BINARY CARDS
 040 860681-34A00 * SOURCE CARDS
 050 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS
 060 SELF-STARTING AND THE STEP SIZE(S) MAY BE CHANGED AFTER ANY COMPLETE STOP. ONE LEVEL OF RECURSIVENESS IS
 070 PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
 080 COMMENTS SIZE: 111 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 090 SUBROUTINES.

B3860682 000 AA 9300 LINEAR INTERPOLATION (5 ARGUMENTS) P VM
 010 AUTHOR XEROX
 020 860682-11A00 DESCRIPTION PRINTED
 030 860682-24A00 RELOCATABLE BINARY CARDS
 040 860682-34A00 * SOURCE CARDS
 050 ABSTRACT TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE
 060 OF X, Y, Z, F(X, Y, Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
 070 COMMENTS SIZE: 131 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860683 000 AA 9300 LINEAR INTERPOLATION (2 ARGUMENTS) P VM
 010 AUTHOR XEROX

020 860683-11A00 DESCRIPTION PRINTED
 030 860683-24A00 RELOCATABLE BINARY CARDS
 040 860683-34A00 * SOURCE CARDS
 050 ABSTRACT TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF
 060 X, Y, F(X, Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
 070 COMMENTS SIZE: 74 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860684 000 AA 9300 LINEAR INTERPOLATION (1 ARGUMENT) P VM
 010 AUTHOR XEROX
 020 860684-11A00 DESCRIPTION PRINTED
 030 860684-24A00 RELOCATABLE BINARY CARDS
 040 860684-34A00 * SOURCE CARDS
 050 ABSTRACT TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHT-LINE INTERPOLATION IN A TABLE OF X, F(X) PAIRS,
 060 WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
 070 COMMENTS SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860685 000 AA 9300 HYBRID ADAMS-MOULTON DIFF. EQUATIONS P VM
 010 AUTHOR XEROX
 020 860685-11A00 DESCRIPTION PRINTED
 030 860685-24A00 RELOCATABLE BINARY CARDS
 040 860685-34A00 * SOURCE CARDS
 050 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION
 060 IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
 070 COMMENTS SIZE: 154 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860686 000 AA 9300 HYBRID RECTANGULAR INTEGRATION P VM
 010 AUTHOR XEROX
 020 860686-11A00 DESCRIPTION PRINTED
 030 860686-24A00 RELOCATABLE BINARY CARDS
 040 860686-34A00 * SOURCE CARDS
 050 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION
 060 IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
 070 COMMENTS SIZE: 32 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 080 SUBROUTINES.

B3860687 000 AA 9300 HYBRID 2-POINT PREDICTOR P VM
 010 AUTHOR XEROX
 020 860687-11A00 DESCRIPTION PRINTED
 030 860687-24A00 RELOCATABLE BINARY CARDS

040 860687-34A00 * SOURCE CARDS
 050 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS, ONE LEVEL OF RECURSION
 060 IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE,
 070 COMMENTS SIZE: 54 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 080 SUBROUTINES,

B3860688 000 AA 9300 HYBRID 4-POINT PREDICTOR P VM
 010 AUTHOR XEROX
 020 860688-11A00 DESCRIPTION PRINTED
 030 860688-24A00 RELOCATABLE BINARY CARDS
 040 860688-34A00 * SOURCE CARDS
 050 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS, ONE LEVEL OF RECURSION
 060 IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE,
 070 COMMENTS SIZE: 78 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 080 SUBROUTINES,

B3860689 000 AA 9300 HYBRID 4-POINT CORRECTOR P VM
 010 AUTHOR XEROX
 020 860689-11A00 DESCRIPTION PRINTED
 030 860689-24A00 RELOCATABLE BINARY CARDS
 040 860689-34A00 * SOURCE CARDS
 050 ABSTRACT TO CALCULATE AN IMPROVED ESTIMATE OF THE SOLUTION OF A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY
 060 DIFFERENTIAL EQUATIONS, ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY
 070 STORAGE,
 080 COMMENTS SIZE: 78 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 090 SUBROUTINES,

B3860690 000 AA 9300 ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI P VM
 010 AUTHOR XEROX
 020 860690-11A00 DESCRIPTION PRINTED
 030 860690-34A00 * SOURCE CARDS
 040 ABSTRACT TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS, THE PROCESS IS STARTED
 050 BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STEP,
 060 COMMENTS SIZE: 224 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT
 070 SUBROUTINES,

B3860692 000 AA 9300 9300 STAND-ALONE SYSTEM-MAKE ROUTINE P MM
 010 AUTHOR XEROX
 020 860692-11A00 DESCRIPTION PRINTED

030 860692-24A00 RELLOCATABLE BINARY CARDS
040 900884 9300 MONITOR TECHNICAL MANUAL,
050 ABSTRACT SYSTEM MAKE IS A FREE-STANDING, CONTROL CARD ORIENTED ROUTINE FOR MAKING AND CHANGING 9300 MONITOR
060 SYSTEM TAPES,
070 COMMENTS SIZE: 5340 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER, BUFFERED PRINTER, CARD
080 READER TWO MAG, TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY,
090 READER TWO MAG, TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY.

B3860694 000 AA 9300 MAG TAPE COPY AND VERIFY PROGRAM P VM
010 AUTHOR XEROX
020 860694-11A00 DESCRIPTION PRINTED
030 860694-24A00 RELLOCATABLE BINARY CARDS
040 860694-44A00 * COMPRESSED CARDS
050 ABSTRACT TO COPY AND VERIFY MIXED MODE (BINARY AND BCD) MAG TAPES ON A FILE BASIS, UTILIZING THE 9300 MONITOR I/O
060 HANDLERS.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 764 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A
080 TYPEWRITER, CARD READER AND TWO MAG TAPE UNITS.

B3860696 000 AA 9300 BIG MEMORY DIAGNOSTIC D MM
010 AUTHOR XEROX
020 860696-11A00 DESCRIPTION PRINTED
030 860696-34A00 * SOURCE CARDS
040 860696-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM GENERATED
060 MEMORY PATTERNS.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 20000 DECIMAL WORDS, COMPUTER CONFIGURATION: 20K CORE MINIMUM AND
080 PAPER TAPE OR CARD READER.

B3860697 000 AA 9300 POLYNOMIAL TELESCOPE P VM
010 AUTHOR XEROX
020 860697-11A00 DESCRIPTION PRINTED
030 860697-34A00 * SOURCE CARDS
040 860697-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO REDUCE BY STEPS THE DEGREE OF A GIVEN POLYNOMIAL, CALCULATING NEW COEFFICIENTS AT EACH STEP, UNTIL
060 THE ACCUMULATED ERROR GENERATED EXCEEDS A GIVEN LIMIT.
070 COMMENTS SOURCE LANGUAGE: FORTRAN IV, SIZE: 1232 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860698 000 AA 9300 KWIC INDEX PROGRAM FOR SIGMA P VM
010 AUTHOR XEROX

020 860698-11A00 DESCRIPTION PRINTED
 030 860698-84A00 ABSOLUTE BINARY CARDS
 040 ABSTRACT GIVEN A SET OF SIGMA PROGRAM LIBRARY CARDS AS INPUT, TO PRODUCE A KWIC (KEY WORD IN CONTEXT) INDEX,
 050 ALPHABETICALLY SORTED, KEYING ON ALL WORDS IN THE TITLE THAT HAVE NOT BEEN SPECIFIED AS 'DULL' WORDS.
 060 COMMENTS SOURCE LANGUAGE: FORTRAN IV. SIZE: 25000 DECIMAL WORDS. COMPUTER CONFIGURATION: 32K, 9300 WITH AT LEAST
 070 4 MAG TAPES.

B3860700 000 AA 9300 FORTRAN IV ERROR CHECKING DEMO P VM
 010 AUTHOR XEROX
 020 860700-11A00 DESCRIPTION PRINTED
 030 860700-34A00 * SOURCE CARDS
 040 ABSTRACT TO ILLUSTRATE COMPILER-TIME ERROR CHECKING CAPABILITY OF 9300 FORTRAN IV.
 050 COMMENTS SOURCE LANGUAGE: FORTRAN IV. COMPUTER CONFIGURATION: ANY 9300

B3860716 000 AA 9300 BINARY INPUT--PAPER TAPE LOADER P VM
 010 AUTHOR XEROX
 020 860716-11A00 DESCRIPTION PRINTED
 030 860716-34A00 * SOURCE CARDS
 040 ABSTRACT TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER INTO BINARY
 050 PAPER TAPE.
 060 COMMENTS SIZE: 40 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE READER.

B3860718 000 AA 9300 EXTENDED MODE I/O TEST PROGRAM D MM
 010 AUTHOR XEROX
 020 860718-11A00 DESCRIPTION PRINTED
 030 860718-44A00 * COMPRESSED CARDS
 040 860718-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE, GIVEN A COMMUNICATION
 060 CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH A
 080 TYPEWRITER ATTACHED TO THE A CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION
 090 CHANNEL, THE A CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.

B3860719 000 AA 9300 PHOTO-READER TEST PROGRAM D MM
 010 AUTHOR XEROX
 020 860719-11A00 DESCRIPTION PRINTED
 030 860719-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTOREADER.
 050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 455 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER

060 TAPE PHOTOREADER.

B3860720 000 AA 9300 BASIC 2 CARD RELOCATABLE LOADER P VM
010 AUTHOR XEROX
020 860720-11A00 DESCRIPTION PRINTED
030 860720-34A00 * SOURCE CARDS
040 860720-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM CARDS WHICH IS REPRESENTED IN THE XDS STANDARD BINARY
060 LANGUAGE FORMAT, EXTERNAL REFERENCES AND DEFINITIONS ARE NOT ALLOWED AND ADDRESS MODIFICATION IS
070 RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
080 COMMENTS SIZE: 79 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.

B3860721 000 AA 9300 BINARY INPUT-1 CARD ABS. LOADER P VM
010 AUTHOR XEROX
020 860721-11A00 DESCRIPTION PRINTED
030 860721-34A00 * SOURCE CARDS
040 860721-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER INTO BINARY
060 CARDS.
070 COMMENTS SIZE: 37 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.

B3860722 000 AA 9300 ONE CARD OCTAL MEMORY DUMP (TYPEWRITER) P VM
010 AUTHOR XEROX
020 860722-11A00 DESCRIPTION PRINTED
030 860722-34A00 * SOURCE CARDS
040 860722-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY.
060 COMMENTS SIZE: 65 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300

B3860723 000 AA 9300 OCTAL INPUT-1 CARD LOADER P VM
010 AUTHOR XEROX
020 860723-11A00 DESCRIPTION PRINTED
030 860723-34A00 * SOURCE CARDS
040 860723-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
060 COMMENTS SIZE: 30 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300.

B3860726 000 AA 9300 CARD READ SUBROUTINE - CDR P MM
010 AUTHOR XEROX

020 860726-11A00 DESCRIPTION PRINTED
030 860726-24A00 RELOCATABLE BINARY CARDS
040 860726-44A00 * COMPRESSED CARDS
050 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY
060 MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD
080 READER ATTACHED TO AN INTERLACED CHANNEL.

B3860727 000 AA 9300 CARD READER TEST PROGRAM D MM

010 AUTHOR XEROX
020 860727-11A00 DESCRIPTION PRINTED
030 860727-44A00 * COMPRESSED CARDS
040 860727-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO VERIFY THE OPERATION OF THE XDS 9151, 9152 OR 9153 CARD READER.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH
070 TYPEWRITER ON CHANNEL A AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A TMCC OR DACC. EXTENDED
080 MODE INTERLACE IS USED FOR CARD READER.

B3860729 000 AA 9300 CARD PUNCH TEST PROGRAM D MM

010 AUTHOR XEROX
020 860729-11A00 DESCRIPTION PRINTED
030 860729-44A00 * COMPRESSED CARDS
040 860729-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 608 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 COMPUTER WITH
070 MODEL 9157 CARD PUNCH COUPLER SYSTEM ATTACHED TO ANY CHANNEL.

B3860730 000 AA 9300 9158 CARD PUNCH TEST PROGRAM D MM

010 AUTHOR XEROX
020 860730-11A00 DESCRIPTION PRINTED
030 860730-34A00 * SOURCE CARDS
040 860730-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A MEANS OF TESTING THE CARD PUNCH. SOURCE LANGUAGE: META-SYMBOL. SIZE: 317 DECIMAL WORDS.
060 COMPUTER CONFIGURATION: ANY 9300 WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM MAY BE USED ON CHANNELS A-H.

B3860731 000 AA 9300 I/O HANDLER CDRP P MM

010 AUTHOR XEROX
020 860731-11A00 DESCRIPTION PRINTED
030 860731-24A00 RELOCATABLE BINARY CARDS

040 860731-44A00 * COMPRESSED CARDS
050 860731-51A00 LISTING PRINTED
060 ABSTRACT TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING OR PUNCHING CARDS IN EITHER BCD OR BINARY MODE.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 277 OCTAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD
080 READER/OR PUNCH.

B3860732 000 AA 9300 MAGNETIC TAPE HANDLER (MTAPE) P VM
010 AUTHOR XEROX
020 860732-11A00 DESCRIPTION PRINTED
030 860732-24A00 RELOCATABLE BINARY CARDS
040 860732-44A00 * COMPRESSED CARDS
050 ABSTRACT TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN
060 THE EXTENDED MODE UNDER INTERRUPT CONTROL.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH
080 MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.

B3860733 000 AA 9300 CARD OR MAG, TAPE UNIVERSAL LOADER P VM
010 AUTHOR XEROX
020 860733-11A00 DESCRIPTION PRINTED
030 860733-34A00 * SOURCE CARDS
040 860733-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER
060 PUNCHED CARDS OR MAGNETIC TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH
070 LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
080 COMMENTS SOURCE LANGUAGE: SYMBOL. SIZE: 1071 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A
090 CARD READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR
100 MAGNETIC TAPE.

B3860734 000 AA 9300 MAG TAPE TRANSFORMATION (TRANSFORM) P VM
010 AUTHOR XEROX
020 860734-11A00 DESCRIPTION PRINTED
030 860734-24A00 RELOCATABLE BINARY CARDS
040 860734-44A00 * COMPRESSED CARDS
050 ABSTRACT TO TRANSFORM A FILE OF BLOCKED RECORDS WHOSE LOGICAL RECORD LENGTH (IN CHARACTERS) IS A NON-MULTIPLE OF
060 FOUR (4) TO A NEW FILE WHOSE LOGICAL RECORD LENGTH IN CHARACTERS IS A MULTIPLE OF FOUR. THE OUTPUT
070 RECORD LENGTH IS SPECIFIED BY THE USER. THE ORIGINAL BLOCKING FACTOR IS RETAINED IN THE OUTPUT FILE.
080 COMMENTS SOURCE LANGUAGE: META-SYMBOL (META B93H). SIZE: 3243 DEC. WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
090 MINIMUM 16K, 3 MAG TAPES.

B3860737 000 AA 9300 BINARY MAG TAPE EDITOR P VM
010 AUTHOR XEROX
020 860737-11A00 DESCRIPTION PRINTED
030 860737-44A00 * COMPRESSED CARDS
040 860737-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO COPY AND EDIT A BINARY MAG TAPE.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 687 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH TWO MAG
070 TAPES

B3860738 000 AA 9300 EXTENDED MODE MULTI MAG TAPE EXERCISOR D MM
010 AUTHOR XEROX
020 860738-11A00 DESCRIPTION PRINTED
030 860738-44A00 * COMPRESSED CARDS
040 860738-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THRU H. THE EXERCISE OPERATES
060 UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 1976 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 SYSTEM WITH
080 1 TO 64 TAPE UNITS ATTACHED TO INTERLACED CHANNELS A THRU H. THE TYPEWRITER ON CHANNEL A(W) IS USED FOR
090 CONTROL.

B3860739 000 AA 9300 MAGNETIC TAPE TEST PROGRAM D MM
010 AUTHOR XEROX
020 860739-11A00 DESCRIPTION PRINTED
030 860739-44A00 * COMPRESSED CARDS
040 860739-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 1959 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A
070 TYPEWRITER ATTACHED TO CHANNEL A AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING
080 INTERLACE AND EXTENDED MODE.

B3860740 000 AA 9300 SORT/MERGE (COVER) P MM
010 AUTHOR XEROX
020 860740-11A00 DESCRIPTION PRINTED
030 860740-44A00 * COMPRESSED CARDS
040 860740-84A00 ABSOLUTE BINARY CARDS
050 900997 900 SERIES/9300 COMPUTERS REFERENCE MANUAL
060 901044 900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL
070 ABSTRACT SEE CATALOG NUMBERS 860741 AND 860742 FOR ABSTRACTS OF SORT AND MERGE.
080 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 4096-8192 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER

090 WITH A MINIMUM OF 16K FOR FULL CAPACITY VERSION OF SORT WHICH PERMITS FIRST AND/OR LAST PASS OWN-CODE
100 SUBPROGRAMS, OR 8K FOR THE LIMITED CAPACITY VERSION, THREE TAPE UNITS, ONE CARD READER AND ONE TYPEWRITER.

B3860741 000 AA 9300 SORT P MM
010 AUTHOR XEROX
020 860741-84A00 860740-84 ABSOLUTE BINARY CARDS
030 900997 900 SERIES/9300 SORT/MERGE REFERENCE
040 901044 900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL
050 ABSTRACT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR USERS OF XDS 900 SERIES OR 9300 COMPUTER SYSTEMS HAVING
060 AT LEAST THREE MAG TAPE UNITS OR TWO MAGPAK UNITS.
070 COMMENTS THIS PROGRAM IS PART OF CATALOG NUMBER 860740, SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.

B3860742 000 AA 9300 MERGE P MM
010 AUTHOR XEROX
020 860742-84A00 860740-84 ABSOLUTE BINARY CARDS
030 900997 900 SERIES/9300 SORT/MERGE REFERENCE MANUAL
040 901044 900 SERIES/9300 SORT/MERGE TECHNICAL MANUAL
050 ABSTRACT MERGE, BASICALLY IS AN ABRIDGEMENT OF SORT, ALLOWS PREVIOUSLY SEQUENCED RECORDS FROM AS MANY AS SIX
060 REELS OF MAGNETIC TAPE TO BE MERGED INTO ONE STRING.
070 COMMENTS THIS PROGRAM IS PART OF CATALOG 860740, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

B3860743 000 AA 9300 PAYROLL GENERATOR PROGRAM P MM
010 AUTHOR XEROX
020 860743-11A00 DESCRIPTION PRINTED
030 860743-24A00 RELOCATABLE BINARY CARDS
040 860743-44A00 * COMPRESSED CARDS
050 ABSTRACT TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED IN AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.
060 COMMENTS SOURCE LANGUAGE: XDS BUSINESS LANGUAGE. SIZE: 6500 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300
070 WITH A MINIMUM OF 16K OF STORAGE AND THREE MAGNETIC TAPE UNITS.

B3860744 000 AA 9300 DATA MULTIPLEX CHANNEL TEST D MM
010 AUTHOR XEROX
020 860744-11A00 DESCRIPTION PRINTED
030 860744-44A00 * COMPRESSED CARDS
040 860744-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS.
060 COMMENTS ANY 9300 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL HAVING A PAPER TAPE PUNCH AND A PHOTO READER
070 ATTACHED, A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).

B3860745 000 AA 9300 DACC DIAGNOSTIC TEST FOR 9300 D MM
 010 AUTHOR XEROX
 020 860745-11A00 DESCRIPTION PRINTED
 030 860745-44A00 * COMPRESSED CARDS
 040 860745-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL
 060 DEVICE.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1977 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, DACC, JX35
 080 TESTER.

B3860746 000 AA 9300 TMCC DIAGNOSTIC TEST FOR 9300 D MM
 010 AUTHOR XEROX
 020 860746-11A00 DESCRIPTION PRINTED
 030 860746-44A00 * COMPRESSED CARDS
 040 860746-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TMCC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL
 060 DEVICE.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1878 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, TMCC, JX35
 080 TESTER.

B3860747 000 AA 9300 DSC-I DIAGNOSTIC TEST D MM
 010 AUTHOR XEROX
 020 860747-11A00 DESCRIPTION PRINTED
 030 860747-44A00 * COMPRESSED CARDS
 040 860747-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1656 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A
 070 TYPEWRITER AND JX35 TESTER.

B3860748 000 AA 9300 DSC-II DIAGNOSTIC TEST D VM
 010 AUTHOR XEROX
 020 860748-11A00 DESCRIPTION PRINTED
 030 860748-84A00 ABSOLUTE BINARY CARDS
 040 ABSTRACT TEST INDEPENDENT OF A PERIPHERAL DEVICE.
 050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1463 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH TYPEWRITER
 060 AND JX35 TESTER.

B3860749 000 AA 9300 MODEL 9372 UNBUFFERED LINE PRINTER SUBR P VM
 010 AUTHOR XEROX

	020		860749-11A00	DESCRIPTION PRINTED	
	030		860749-24A00	RELOCATABLE BINARY CARDS	
	040		860749-44A00 *	COMPRESSED CARDS	
	050	ABSTRACT	TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT		
	060		CONTROL.		
	070	COMMENTS	SOURCE LANGUAGE: META-SYMBOL. SIZE: 426 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL		
	080		9372 LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.		
B3860750	000	AA 9300	MONARCH SYS, UPDATE FOR UNBUFFERED PRINT		P VM
	010	AUTHOR	XEROX		
	020		860750-11A00	DESCRIPTION PRINTED	
	030		860750-84A00	ABSOLUTE BINARY CARDS	
	040	ABSTRACT	TO RELEASE AN UPDATE PACKAGE WHICH WILL ADAPT A STANDARD M03 9300 MONARCH SYSTEM TAPE TO THE UNBUFFERED		
	050		PRINTER, N/A		
B3860751	000	AB 9300	SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR		P VM
	010	AUTHOR	XEROX		
	020		860751-11B00	DESCRIPTION PRINTED	
	030		860751-24B00	RELOCATABLE BINARY CARDS	
	040		860751-34B00 *	SOURCE CARDS	
	050	ABSTRACT	TO OUTPUT ON THE PRINTER ONE LINE OF THE SYMBOL OUTPUT LISTING.		
	060	COMMENTS	SOURCE LANGUAGE:SYMBOL. SIZE: 130 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372		
	070		UNBUFFERED LINE PRINTER.		
B3860752	000	AA 9300	LINE PRINTER SUBROUTINE (PRINT)		P VM
	010	AUTHOR	XEROX		
	020		860752-11A00	DESCRIPTION PRINTED	
	030		860752-24A00	RELOCATABLE BINARY CARDS	
	040		860752-44A00 *	COMPRESSED CARDS	
	050	ABSTRACT	TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT		
	060		CONTROL.		
	070	COMMENTS	SOURCE LANGUAGE: META-SYMBOL. SIZE: 185 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A		
	080		BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.		
B3860753	000	AA 9300	PRINTER DIAGNOSTIC		D MM
	010	AUTHOR	XEROX		
	020		860753-11A00	DESCRIPTION PRINTED	
	030		860753-44A00 *	COMPRESSED CARDS	
	040		860753-84A00	ABSOLUTE BINARY CARDS	

060 THE OPTIONAL DEVICES , SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
070 COMMENTS SIZE: 4095 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9185-01 DISPLAY COUPLER AND
080 A DISPLAY UNIT USING THE FOLLOWING CHANNEL CONFIGURATION. XDS 9300: TMCC WITH 24-BIT CHARACTER SIZE
090 OPTION OR ANY DACC OR PIN-POT CONNECTOR.

B3860763 000 AA 9300 DES-1 DIAGNOSTIC PROGRAM D MM
010 AUTHOR XEROX
020 860763-11A00 DESCRIPTION PRINTED
030 860763-44A00 * COMPRESSED CARDS
040 860763-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO TEST DES-1 CONSOLE AND EIGHT D/A CONVERTERS.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 516 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

B3860764 000 AA 9300 MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE D MM
010 AUTHOR XEROX
020 860764-11A00 DESCRIPTION PRINTED
030 860764-44A00 * COMPRESSED CARDS
040 860764-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS
060 AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO
070 TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES
080 OVER THE TAPE.
090 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 12643 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A 24-BIT
100 EXTENDED A BUFFER TELETYPE TYPEWRITER CONNECTED TO THE A BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT
110 CONNECTED TO EITHER CHANNEL A, B, C OR D.

B3860765 000 AA 9300 9267 DISC FILE DIAGNOSTIC-(DFD) D MM
010 AUTHOR XEROX
020 860765-11A00 DESCRIPTION PRINTED
030 860765-44A00 * COMPRESSED CARDS
040 860765-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF 9267 RAD DISC.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 3510 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH
070 INTERLACE, EXTENDED MODE, TYPEWRITER (NUMBER 1, A-CHANNEL), AND ONE OR MORE MODEL 9267 RAD'S.

B3860766 000 AA 9300 CFE-1 DIAGNOSTIC D MM
010 AUTHOR XEROX
020 860766-11A00 DESCRIPTION PRINTED
030 860766-44A00 * COMPRESSED CARDS

050 ABSTRACT A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTERS ON A XDS 9300.
060 THE PROGRAM OPERATES IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES . INTERRUPTS ARE
070 NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY IMCC OR DACC.
080 COMMENTS SIZE: 866 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN ATTACHED 9174 OR 9179 BUFFERED
090 LINE PRINTER(S).

B3860754 000 AA 9300 9379/9171 BUFFERED LINE PRINTER DIAG D MM
010 AUTHOR XEROX
020 860754-11A00 DESCRIPTION PRINTED
030 860754-44A00 * COMPRESSED CARDS
040 860754-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND
060 TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1275 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A
080 BUFFERED LINE PRINTER AND A TYPEWRITER CONNECTED TO CHANNEL A.

B3860755 000 AA 9300 MODEL 9372 UNBUFFERED LINE PRINTER TEST D MM
010 AUTHOR XEROX
020 860755-11A00 DESCRIPTION PRINTED
030 860755-44A00 * COMPRESSED CARDS
040 860755-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT PROVIDE A TEST OF THE MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER
060 CONNECTED TO CHANNEL A.
070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1560 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A
080 MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITE R CONNECTED TO CHANNEL
090 A.

B3860757 000 AA 9300 PLOTTER TEST D MM
010 AUTHOR XEROX
020 860757-11A00 DESCRIPTION PRINTED
030 860757-84A00 ABSOLUTE BINARY CARDS
040 ABSTRACT TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 261 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL
060 9175-76 INCREMENTAL PLOTTER ON ANY IMCC.

B3860758 000 AA 9300 MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST D MM
010 AUTHOR XEROX
020 860758-11A00 DESCRIPTION PRINTED
030 860758-84A00 ABSOLUTE BINARY CARDS

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

B3860759 000 AA 9300 SPECIAL PRIORITY INTERRUPT TEST ROUTINE D MM

010 AUTHOR XEROX
020 860759-11A00 DESCRIPTION PRINTED
030 860759-24A00 RELOCATABLE BINARY CARDS
040 860759-44A00 * COMPRESSED CARDS

050 ABSTRACT TO PROVIDE A CHECK FOR PROPER OPERATION OF OPTIONAL INTERRUPTS.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 284 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH
070 TYPEWRITER ON CHANNEL A, OPTIONAL INTERRUPTS, AND SPECIAL HARDWARE TO ALLOW INTERNAL INITIATION OF
080 OPTIONAL INTERRUPTS.

B3860760 000 AA 9300 SPECIAL TYPEWRITER TEST ROUTINE D VM

010 AUTHOR XEROX
020 860760-11A00 DESCRIPTION PRINTED
030 860760-24A00 RELOCATABLE BINARY CARDS
040 860760-44A00 * COMPRESSED CARDS

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

B3860761 000 AA 9300 SPECIAL PAPER TAPE PUNCH-READ TEST D MM

010 AUTHOR XEROX
020 860761-11A00 DESCRIPTION PRINTED
030 860761-44A00 * COMPRESSED CARDS
040 860761-84A00 ABSOLUTE BINARY CARDS

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

B3860762 000 AA 9300 CATHODE RAYTUBE DISPLAY SYSTEM TEST D MM

010 AUTHOR XEROX
020 860762-11A00 DESCRIPTION PRINTED
030 860762-44A00 * COMPRESSED CARDS
040 860762-84A00 ABSOLUTE BINARY CARDS

050 ABSTRACT TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF

040 860766-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
 050 860766-84A00 ABSOLUTE BINARY CARDS
 060 ABSTRACT TO DISCOVER AND INDICATE CFE=1 FAILURES.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 1325 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 1-4
 080 MEMORY BANKS TOTALING UP TO 32K, CARD OR PAPER TAPE READER, AND CFE=1. (IN ADDITION A TYPEWRITER 1 ON
 090 CHANNEL A IS HIGHLY ADVISED.

B3860767 000 AA 9300 RAD APOCALYPTIC DIAGNOSTIC D MM
 010 AUTHOR XEROX
 020 860767-11A00 DESCRIPTION PRINTED
 030 860767-44A00 * COMPRESSED CARDS
 040 860767-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 3707 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A
 070 TYPEWRITER (NO. 1) ATTACHED TO CHANNEL A AND ONE OR MORE RADS ATTACHED TO ANY CHANNEL USING INTERLACE.

B3860768 000 AA 9300 DPD TEST PROGRAM D MM
 010 AUTHOR XEROX
 020 860768-11A00 DESCRIPTION PRINTED
 030 860768-44A00 * COMPRESSED CARDS
 040 860768-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING
 060 FOR ACCEPTANCE PURPOSE
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 3700 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH XDS
 080 MODEL 9164-01/ 9164-02 DISC FILE CONTROLLER ATTACHED TO 1 OR 2 I/O CHANNELS A-H. THE TYPEWRITER IS USED
 090 FOR PROGRAM CONTROL AND MUST BE CONNECTED TO CHANNEL A.

B3860769 000 AA 9300 INTERRUPT ARM-DISARM FEATURE TEST PROGRA D MM
 010 AUTHOR XEROX
 020 860769-11A00 DESCRIPTION PRINTED
 030 860769-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO CHECK OUT, THOROUGHLY, THE OPERATION OF ARM-DISARM FEATURE.
 050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 3000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH
 060 TYPEWRITER, 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE. ALSO REQUIRED TO PERFORM
 070 THE TEST IS SPECIAL MODULE CARD = 109745. WHEN THIS CARD'S INPUT IS CONNECTED TO COMPUTER SIGNAL R11,
 080 ANY PIN COMMAND SHOULD SET ALL ARMED INTERRUPTS.

B3860770 000 AA 9300 CECIS SPECIAL ACCEPTANCE TEST D VM
 010 AUTHOR XEROX

020 860770-11A00 DESCRIPTION PRINTED
 030 860770-44A00 * COMPRESSED CARDS
 040 860770-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO DEMONSTRATE PERFORMANCE OF SPECIAL PARTS OF THE SYSTEM.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 776 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 FOR CECIS
 070 SECT SYSTEM.

B3860771 000 AA 9300 REAL TIME CLOCK TEST ROUTINE D MM
 010 AUTHOR XEROX
 020 860771-11A00 DESCRIPTION PRINTED
 030 860771-44A00 * COMPRESSED CARDS
 040 860771-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 367 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH A PAPER
 070 TAPE READER OR CARD READER, A TYPEWRITER ATTACHED TO CHANNEL A, AND A 91880 REAL TIME CLOCK.

B3860772 000 AA 9300 CFE-1 AND MAG TAPE COMPATABILITY PROGRAM P VM
 010 AUTHOR XEROX
 020 860772-11A00 DESCRIPTION PRINTED
 030 860772-44A00 * COMPRESSED CARDS
 040 860772-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO DEMONSTRATE THE CAPABILITY OF THE CFE-1 TO OPERATE INDEPENDENTLY FROM THE CENTRAL PROCESSING UNIT
 060 (XDS 9300) IN ALL OPERATING AND STORAGE MODES.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 236 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH CFE-1
 080 AND MAG TAPE.

B3860773 000 AA 9300 SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN D VM
 010 AUTHOR XEROX
 020 860773-11A00 DESCRIPTION PRINTED
 030 860773-44A00 * COMPRESSED CARDS
 040 860773-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THE PURPOSE OF THESE PROGRAMS IS TO DEMONSTRATE THE REAL TIME SIMULATION SYSTEM CONFORMANCE TO
 060 REQUIREMENTS OF NAA PROCUREMENT SPECIFICATION MC 470-0080
 070 COMMENTS SIZE: 2926 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 FOR NAA REAL TIME SIMULATION SYSTEM.

B3860774 000 AA 9300 PATCH P VM
 010 AUTHOR XEROX
 020 860774-11A00 DESCRIPTION PRINTED
 030 860774-44A00 * COMPRESSED CARDS

040 860744-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR
 060 VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG
 070 COMPONENT DIAGNOSTICS.
 080 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 2550 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

B3860776 000 AA 9300 STANDARD ANALOG TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 860776-11A00 DESCRIPTION PRINTED
 030 860776-84A00 ABSOLUTE BINARY CARDS
 040 ABSTRACT TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
 050 COMMENTS SIZE: 12288 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH ASSOCIATED ANALOG I/O EQUIPMENT.

B3860777 000 AA 9300 BOEING RANDOM NUM. GEN. TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 860777-11A00 DESCRIPTION PRINTED
 030 860777-44A00 * COMPRESSED CARDS
 040 860777-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS PROGRAM TESTS THE RANDOM NUMBER GENERATOR AND MEMORY INCREMENT HARDWARE IN SIX WAYS. 1.)
 060 SINGLE-WORD RANDOM NUMBER MODE. 2) MEMORY INCREMENT MODE 3) RANDOM NUMBER BLOCK MODE 4) TIMING OF RANDOM
 070 NUMBER BLOCK MODE 5) TIMING OF MEMORY INCREMENT MODE 6) REGISTER TEST SOURCE LANGUAGE: META-SYMBOL.
 080 SIZE: 6098 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, DSC-II, INTERLACED A CHANNEL, PAPER TAPE
 090 READER, TYPEWRITER, SPECIAL HARDWARE.

B3860778 000 AA 9300 BOEING FAULT TREE TEST PROGRAM D VM
 010 AUTHOR XEROX
 020 860778-11A00 DESCRIPTION PRINTED
 030 860778-44A00 * COMPRESSED CARDS
 040 860778-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS PROGRAM TESTS THE BOEING FAULT TREE SYSTEM EOM'S AND SKS LINES. THERE ARE FOUR MAJOR PARTS TO THE
 060 PROGRAM: 1) CHECK ALL EOM FLIP FLOPS (FF,S) EXCEPT THE 7 TRIGGER FF,S USING ONE EOM CONNECTOR FOR
 070 OUTPUT. 2) CHECK ALL SKS INPUTS (EXCEPT THE INDIRECT SENSORS) USING ONE EOM CONNECTOR FOR OUTPUT. 3)
 080 CHECK THE 7 TRIGGER FF. 4) CHECK THE 20 INDIRECT SENSORS.
 090 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 2322 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, PAPER TAPE
 100 READER, INTERLACED A CHANNEL, TYPEWRITER, 4K MEMORY, SPECIAL HARDWARE.

B3860779 000 AA 9300 DES-1 8K VERSION P VM
 010 AUTHOR XEROX
 020 860779-11A00 DESCRIPTION PRINTED

030 860779-44A00 * COMPRESSED CARDS
 040 860779-84A00 ABSOLUTE BINARY CARDS
 050 980065 XDS DES-1 DIFFERENTIAL EQUATION SOLVER
 060 ABSTRACT TO SOLVE DIFFERENTIAL EQUATIONS.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

B3860780 000 AA 9300 DES-1 16K VERSION P VM
 010 AUTHOR XEROX
 020 860780-11A00 DESCRIPTION PRINTED
 030 860780-44A00 * COMPRESSED CARDS
 040 860780-84A00 ABSOLUTE BINARY CARDS
 050 980065 XDS DES-1 DIFFERENTIAL EQUATION SOLVER
 060 ABSTRACT TO SOLVE DIFFERENTIAL EQUATIONS.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

B3860781 000 AA 9300 DES-1 24K VERSION P VM
 010 AUTHOR XEROX
 020 860781-11A00 DESCRIPTION PRINTED
 030 860781-44A00 * COMPRESSED CARDS
 040 860781-84A00 ABSOLUTE BINARY CARDS
 050 980065 XDS DES-1 DIFFERENTIAL EQUATION SOLVER
 060 ABSTRACT TO SOLVE DIFFERENTIAL EQUATIONS.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

B3860782 000 AA 9300 DES-1 32K VERSION P VM
 010 AUTHOR XEROX
 020 860782-11A00 DESCRIPTION PRINTED
 030 860782-44A00 * COMPRESSED CARDS
 040 860782-84A00 ABSOLUTE BINARY CARDS
 050 980065 XDS DES-1 DIFFERENTIAL EQUATION SOLVER
 060 ABSTRACT TO SOLVE DIFFERENTIAL EQUATIONS.
 070 COMMENTS SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.

B3860783 000 AA 9300 ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH D VM
 010 AUTHOR XEROX
 020 860783-11A00 DESCRIPTION PRINTED
 030 860783-44A00 * COMPRESSED CARDS
 040 ABSTRACT TO DEMONSTRATE THE CAPABILITIES OF THE UCLA BRAIN RESEARCH SYSTEM.
 050 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAG

060 TAPE, PAPER TAPE, TYPEWRITER, PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.

B3860784 000 AB 9300 RTM STAND-ALONE UPDATE P VM
010 AUTHOR XEROX
020 860784-11B00 DESCRIPTION PRINTED
030 860784-44B00 861000-45 COMPRESSED CARDS
040 860784-45B00 861000-45 COMPRESSED MAG TAPE, 7 CHANNELS
050 860784-84B00 ABSOLUTE BINARY CARDS
060 ABSTRACT THIS ROUTINE IS USED TO UPDATE 9300 RTM SYSGEN TAPES,
070 COMMENTS SOURCE: METASYMBOL, CONFIGURATION: 9300 WITH 8K MEMORY (MINIMUM).

B3860787 000 AA 9300 9-TRACK MAGNETIC TAPE TEST PROGRAM D MM
010 AUTHOR XEROX
020 860787-11A00 DESCRIPTION PRINTED
030 860787-44A00 * COMPRESSED CARDS
040 860787-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO TEST THE 9-TRACK MAGNETIC TAPE UNIT AND ITS COUPLER.
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 12625 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH AT
070 LEAST 8,192 WORDS OF MEMORY, PAPER TAPE OR CARD READER AND TYPEWRITER ON CHANNEL A, AND 9-TRACK MAGNETIC
080 TAPE UNIT (MODEL NO.92469) WITH COUPLER (MODEL NO.92489) CONNECTED VIA A TMCC OR DACC WITH INTERLACE.

B3860788 000 AA 9300 DOUGLAS MCL SYS. CHECK OUT PROGRAM D VM
010 AUTHOR XEROX
020 860788-11A00 DESCRIPTION PRINTED
030 860788-44A00 * COMPRESSED CARDS
040 ABSTRACT TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC, SAM, CIU, ETC).
050 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 850 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300, 32K MEMORY.

B3860789 000 AA 9300 GENERAL ELECTRIC MCL SYS. CHECK OUT PROG D VM
010 AUTHOR XEROX
020 860789-11A00 DESCRIPTION PRINTED
030 860789-44A00 * COMPRESSED CARDS
040 860789-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC, SAM, CIU, ET C).
060 COMMENTS SOURCE LANGUAGE: META-SYMBOL, SIZE: 849 DECIMAL WORDS, COMPUTER CONFIGURATION: ANY XDS 9300 WITH 32K
070 MEMORY.

B3860790 000 AA 9300 ACCEPT TEST PROG. FOR NASA HOUSTON LEM D VM
010 AUTHOR XEROX

020 860790-11A00 DESCRIPTION PRINTED
 030 860790-44A00 * COMPRESSED CARDS
 040 860790-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT TO CHECKOUT ANALOG I/O EQUIPMENT FOR NASA-MSC SYSTEM,
 060 COMMENTS SOURCE LANGUAGE: META-SYMBOL. SIZE: 6143 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MIC,
 070 MAM, TWO MAG TAPES, CARD READER, PAPER TAPE I/O, TYPEWRITER, LINE PRINTER, AND ASSOCIATED ANALOG I/O
 080 EQUIPMENT.

B3860791 000 AA 9300 DES-1 SYSGEN FOR NAA SYSTEM P VM
 010 AUTHOR R.E. VOSSLER
 020 860791-11A00 DESCRIPTION PRINTED
 030 860791-24A00 RELOCATABLE BINARY CARDS
 040 860791-44A00 * COMPRESSED CARDS
 050 860791-84A00 ABSOLUTE BINARY CARDS
 060 ABSTRACT THIS PROGRAM GENERATES THE DES-1 SYSTEM FILE ON THE RAD FOR THE NORTH AMERICAN AVIATION HYBRID SYSTEM.
 070 THE DES-1 SYSTEM CONSISTS OF BINARY CARD DECKS WHICH ARE READ INTO MEMORY AND THEN DUMPED ONTO THE RAD.
 080 COMMENTS THIS PROGRAM REQUIRES THE FOLLOWING CONFIGURATION: 24K 9300 XDS COMPUTER 1/2 MILLION CHARACTER RAD CARD
 090 READER THE DES-1 ALSO REQUIRES THE FOLLOWING: MAG TAPE LINE PRINTER TELETYPE DES-1 CONSOLE

B3860792 000 AA 9300 9379 PRINTER DIAGNOSTIC D MM
 010 AUTHOR XEROX
 020 860792-11A00 DESCRIPTION PRINTED
 030 860792-84A00 ABSOLUTE BINARY CARDS
 040 ABSTRACT A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 9300 COMPUTER.
 050 THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT
 060 USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.
 070 COMMENTS SIZE: 768 DECIMAL. CONFIGURATION: ANY XDS 9300 COMPUTER WITH AN ATTACHED 9379 BUFFERED LINE PRINTER(S).

B3860793 000 AA 9300 9TRACK MAGNETIC TAPE TEST PROGRAM D MM
 010 AUTHOR XEROX
 020 860793-11A00 DESCRIPTION PRINTED
 030 860793-44A00 * COMPRESSED CARDS
 040 860793-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK
 060 MAGNETIC TAPE SYSTEM.
 070 COMMENTS MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9
 080 TRACK MAGNETIC TAPE SYSTEM

B3860794 000 AA 9300 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER D MM

010 AUTHOR XEROX
 020 860794-11A00 DESCRIPTION PRINTED
 030 860794-44A00 * COMPRESSED CARDS
 040 860794-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER
 060 CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES,
 070 SKS'S AND ECMS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
 080 COMMENTS MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL
 090 95489 9TRACK MAGNETIC TAPE SYSTEMS

B3860795 000 AA 9300 NASA EDWARDS INTERFACE TEST D VM

010 AUTHOR XEROX
 020 860795-11A00 DESCRIPTION PRINTED
 030 860795-44A00 * COMPRESSED CARDS
 040 860795-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT INTERFACE TEST PROGRAM FOR THE NASA EDWARDS XDS 9300 HYBRID SYSTEM.
 060 COMMENTS THE MINIMUM COMPUTER CONFIGURATION REQUIRED FOR OPERATION OF THE NASA EDWARDS INTERFACE TEST PROGRAM
 070 MUST INCLUDE THE FOLLOWING: 16K XDS 9300, MIC, MAM, CARDREADER, TYPEWRITER, LINE PRINTER, JHE-34/35 DATA
 080 CHANNELS, AND ASSOCIATED ANALOG I/O EQUIPMENT. THIS PROGRAM INCLUDES TWELVE MODES FOR ANALOG INTERFACE
 090 TESTING. THESE MODES ARE MODIFICATIONS TO CATALOG #699004B, XDS 9300 STANDARD ANALOG TEST PROGRAM. NINE
 100 OTHER MODES ARE INCLUDED TO TEST OTHER I/O FUNCTIONS.

B3860796 000 AA 9300 NASA EDWARDS HYBRID EXECUTION LIBRARY P VM

010 AUTHOR XEROX
 020 860796-11A00 DESCRIPTION PRINTED
 030 860796-24A00 RELOCATABLE BINARY CARDS
 040 860796-44A00 * COMPRESSED CARDS
 050 ABSTRACT THE NASA EDWARDS HYBRID EXECUTIVE LIBRARY CONSISTS OF A NUMBER OF FORTRAN IV REENTRANT SUBROUTINES WHICH
 060 PROVIDE USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
 070 COMMENTS THE EXECUTIVE LIBRARY SUBROUTINES MAY BE CALLED BY FORTRAN IV PROGRAMS OR VIA COMMANDS INPUT THROUGH THE
 080 TYPEWRITER WHICH ARE EXERCISED BY THE MANUAL EXECUTIVE PROGRAM. THE HYBRID EXECUTIVE LIBRARY CONSISTS OF
 090 ALL HYBRID HARDWARE INTERFACE ROUTINES, THE SOFTWARE INTERFACE TO THE MONITOR AND THE INTERRUPTS,
 100 INTERVAL TIMER CONTROL, ANALOG-DIGITAL CONVERTERS, SENSE LINES, LOGIC LEVEL OUTPUT LINES, ANALOG MODE
 110 CONTROL, ANALOG POTENTIOMETER SETTING, ANALOG VALUE SCANNING, AND ADIOS CONTROL. A FULL SET OF OPERATOR
 120 AND HARDWARE ERROR DIAGNOSTICS ARE PROVIDED AT RUN TIME.

B3860797 000 AA 9300 NORTH AMERICAN HYBRID INTERFACE TEST D VM

010 AUTHOR XEROX
 020 860797-11A00 DESCRIPTION PRINTED

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

B3860798 000 AA 9300 NORTH AMERICAN AVIATION HYBRID EXECUTIVE P VM
010 AUTHOR XEROX
020 860798-11A00 DESCRIPTION PRINTED
030 860798-24A00 RELOCATABLE BINARY CARDS
040 860798-34A00 * SOURCE CARDS
050 ABSTRACT THE HYBRID EXECUTIVE CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE FORTRAN USER CONTROL OF THE
060 HYBRID SYSTEM HARDWARE.
070 COMMENTS THE ROUTINES MAY BE CALLED FROM A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMAND. THE
080 ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH SPECIAL HYBRID INTERFACE FOR NAA.

B3860799 000 AA 9300 NAA DES-1 HYBRID CALL LIBRARY P VM
010 AUTHOR XEROX
020 860799-11A00 DESCRIPTION PRINTED
030 860799-24A00 RELOCATABLE BINARY CARDS
040 860799-34A00 * SOURCE CARDS
050 ABSTRACT THE DES-1 HYBRID CALL LIBRARY CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE DES-1 USER CONTROL
060 OF THE HYBRID SYSTEM HARDWARE.
070 COMMENTS THE ROUTINES MAY BE CALLED FROM A DES-1 PROGRAM. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH
080 DES-1 AND SPECIAL HYBRID INTERFACE HARDWARE FOR NAA.

B3860800 000 AA 9300 INTER-COMPUTER COUPLER TEST D VM
010 AUTHOR XEROX
020 860800-11A00 DESCRIPTION PRINTED
030 860800-34A00 * SOURCE CARDS
040 ABSTRACT THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 9300
050 COMPUTERS.
060 COMMENTS THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND
070 INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO
080 BE TRANSFERRED.

B3860803 000 AA 9300 SYMBOL BOOTSTRAP P VM
010 AUTHOR XEROX
020 860803-24A00 860530-85 RELOCATABLE BINARY CARDS
030 860803-44A00 860530-45 COMPRESSEU CARDS

040 ABSTRACT LOAD SYMBOL LOADER FROM SYSTEM TAPE,

B3861000 000 AC 9300 REAL-TIME MONITOR P MM
010 AUTHOR XEROX
020 861000-11D00 DESCRIPTION PRINTED
030 861000-45D00 * COMPRESSED MAG TAPE, 7 CHANNELS
040 861000-74D00 TEST DECK
050 ABSTRACT THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS
060 AND OTHER PROGRAM OPERATIONS IN A REENTRANT, ONLINE REAL-TIME MODE.

B3861076 000 AA 9300 USNPGS HYBRID INTERFACE TEST D VM
010 AUTHOR XEROX
020 861076-11A00 DESCRIPTION PRINTED
030 861076-44A00 * COMPRESSED CARDS
040 861076-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT THE USNPGS HYBRID INTERFACE TEST PROGRAM IS DESIGNED TO CALIBRATE AND TEST THE HYBRID INTERFACE
060 EQUIPMENT.
070 COMMENTS THE USNPGS HYBRID SYSTEM CONSISTS OF AN XDS 9300 DIGITAL COMPUTER INTERFACED WITH A CI 5000 ANALOG
080 COMPUTER. THE INTERFACE TEST PROGRAM INCLUDES CLOSED LOOP STATISTICAL COMPUTATIONS FOR TESTING A-D, D-A
090 CONVERTERS, TESTS FOR INTERRUPT PROCESSING, MODE CONTROL, LOGIC LINE CONTROL, DVM READOUT, POT SETTING, AND
100 REAL-TIME CLOCK CONTROL. THE INTERFACE TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS WHICH CAN
110 BE FILLED INTO MEMORY BY USING THE ONE OR TWO CARD BINARY LOADER.

B3861077 000 AA 9300 USNPGS DISPLAY TEST PROGRAM D VM
010 AUTHOR XEROX
020 861077-11A00 DESCRIPTION PRINTED
030 861077-24A00 RELOCATABLE BINARY CARDS
040 861077-44A00 * COMPRESSED CARDS
050 ABSTRACT THE USNPGS DISPLAY TEST PROGRAM PROVIDES FOR OPERATOR SELECTION OF TEST PATTERNS AND DISPLAY FUNCTIONS
060 FOR TESTING, ADJUSTING, AND DEMONSTRATING THE TWO TASKER DISPLAYS AND DISPLAY INTERFACE HARDWARE.
070 COMMENTS THE DISPLAY TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS. IT CAN BE LOADED BY USE OF THE
080 STANDARD FILL PROCEDURE WITH THE ONE OR TWO CARD BINARY PROGRAM LOADER. THE DISPLAY TEST PROGRAM
090 PROVIDES FOR TRANSMISSION OF 17 DIFFERENT TEST PATTERNS, AN END OF TRANSMISSION INTERRUPT TEST
100 CHARACTER AND VECTOR RASTER GENERATION, LIGHT PEN USAGE, SCOPE KEYBOARD INPUT, AND FUNCTION PANEL INPUT.

B3861078 000 AA 9300 USNPGS HYBRID EXECUTIVE LIBRARY P VM
010 AUTHOR XEROX
020 861078-11A00 DESCRIPTION PRINTED
030 861078-24A00 RELOCATABLE BINARY CARDS

040 861078-44A00 * COMPRESSED CARDS
 050 ABSTRACT THE HYBRID EXECUTIVE LIBRARY CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE USER CONTROL OF
 060 HYBRID SYSTEM HARDWARE. THE EXECUTIVE FUNCTIONS MAY BE CALLED BY A REAL-TIME FORTRAN IV PROGRAM OR MADE
 070 TO RESPOND TO MANUAL COMMANDS. INCLUDED IN THE LIBRARY ARE FACILITIES FOR INTERRUPT CONTROL, LOGIC LINES
 080 OUTPUT, SENSE LINE TESTING, ANALOG POT SETTING, ANALOG VALUE SCANNING, ANALOG TO DIGITAL AND DIGITAL TO
 090 ANALOG CONVERTER CONTROL, AND HYBRID SYSTEM MODE CONTROL.
 100 COMMENTS THE HYBRID EXECUTIVE LIBRARY IS DESIGNED TO OPERATE UNDER THE XDS 9300 REAL-TIME MONITOR SYSTEM. THE
 110 SUBROUTINES IN THE HYBRID EXECUTIVE LIBRARY ARE REENTRANT AND CODED IN XDS 9300 META-SYMBOL. THE USNPGS
 120 HYBRID SYSTEM INCLUDES AN XDS 9300 COMPUTER INTERFACED WITH A CIS000 ANALOG COMPUTER

B3861079 000 AA 9300 USNPGS DISPLAY EXECUTIVE LIBRARY P VM
 010 AUTHOR XEROX
 020 861079-11A00 DESCRIPTION PRINTED
 030 861079-24A00 RELOCATABLE BINARY CARDS
 040 861079-44A00 * COMPRESSED CARDS
 050 ABSTRACT THE USNPGS DISPLAY EXECUTIVE LIBRARY CONSISTS OF A SET OF SUBROUTINES AND INTERRUPT PROCESSORS WHICH
 060 PROVIDE USER CONTROL OF ALL DISPLAY FUNCTIONS.
 070 COMMENTS THE DISPLAY EXECUTIVE LIBRARY, CODED IN META-SYMBOL, IS CALLABLE FROM META-SYMBOL AS WELL AS FORTRAN IV.
 080 THE DISPLAY EXECUTIVE OPERATES UNDER THE 9300 RTM SYSTEM AND REQUIRES THE REAL-TIME FORTRAN IV LIBRARY.
 090 FUNCTIONS PROVIDED BY THE DISPLAY EXECUTIVE INCLUDE: INITIATION OF OUTPUT SEQUENCE, CHARACTER AND VECTOR
 100 GENERATION, EDITING FUNCTIONS, DISPLAY BUFFER MANAGEMENT, CHARACTER AND VECTOR RASTER GENERATION,
 110 PROGRAM AS WELL AS OPERATOR CONTROL OF DISPLAY FUNCTIONS. A VARIETY OF INPUT SOURCES FOR DISPLAY DATA,
 120 THE ABILITY TO PERFORM THESE FUNCTIONS ON EITHER OF TWO DISPLAY

B3861082 000 AA 9300 RAD TO MAGNETIC TAPE DUMP P VM
 010 AUTHOR XEROX
 020 861082-11A00 DESCRIPTION PRINTED
 030 861082-24A00 RELOCATABLE BINARY CARDS
 040 861082-34A00 * SOURCE CARDS
 050 ABSTRACT RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2
 060 MILLION, 1 MILLION, OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON
 070 THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

B3861083 000 AA 9300 SYMBOL ASSEMBLER (COVER) P MM
 010 AUTHOR XEROX
 020 861083-11A00 900687 DESCRIPTION PRINTED
 030 861083-45A00 860530-45 COMPRESSED MAG TAPE, 7 CHANNELS
 040 861083-85A00 860530-85 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 050 ABSTRACT THIS IS THE COVER NUMBER FOR THE SYMBOL ASSEMBLER UNDER 9300 MONARCH SYSTEM, CAT. NO. 860530. ROUTINES

060 UNDER THIS COVER INCLUDE: 860547-SYMBOL LOADER, 860548-SYMBOL PSI, 860549-SYMBOL CSI, 860550-SYMBOL MSI,
070 860551-SYMBOL PBO, 860552-SYMBOL CBO, 860553-SYMBOL MBO, 860554-SYMBOL TLO, 860555-SYMBOL LLO, 860556-
080 SYMBOL MLO, 860557-SYMBOL S1, 860558-SYMBOL S2, 860559-SYMBOL S3, 860560-SYMBOL M910, 860561-SYMBOL
090 M920, 860562-SYMBOL M9300.

B3861084 000 AA 9300 USNPGS DISPLAY SUBSYSTEM P VM
010 AUTHOR XEROX
020 861084-11A00 DESCRIPTION PRINTED
030 861084-24A00 RELOCATABLE BINARY CARDS
040 861084-44A00 * COMPRESSED CARDS
050 ABSTRACT THESE PROGRAMS ALLOW OPERATION OF TWO AGT/10 GRAPHIC DISPLAY SUBSYSTEMS IN CONJUNCTION WITH AN XDS
060 9300. THEY ALLOW THE AGT/10S TO READ TAPES FROM THE 9300 TAPE DRIVES. THEY ALSO ALLOW THE USER TO OUTPUT
070 CONTROL INFORMATION AND TO INPUT AND OUTPUT TEXT AND GRAPHIC BLOCKS TO THE AGT/10S.
080 COMMENTS HARDWARE REQUIRMENTS: AN XDS 9300-ADAGE AGT110 COMPUTER SYSTEM. TWO TAPE DRIVES AND VERSION B01 OF THE
090 9300 REAL-TIME MONITOR ARE REQUIRED

B3861085 000 AA 9300 FORTRAN IV LIBRARY 9RDDISC, 9WRDISC P VM
010 AUTHOR XEROX
020 861085-11A00 901107 DESCRIPTION PRINTED
030 861085-24A00 RELOCATABLE BINARY CARDS
040 861085-44A00 * COMPRESSED CARDS
050 ABSTRACT THESE ROUTINES IMPLEMENT THE READ DISK, WRITE DISK STATEMENTS OF FORTRAN IV FOR THE REAL TIME MONITOR,
060 (SEE FORTRAN IV REF MANUAL PAGE 69).
070 COMMENTS A BINARY UPDATE PACKAGE (CAT. NO. 861000-64C01) IS AVAILABLE TO UPDATE THE REAL-TIME MONITOR SYSGEN TAPE
080 (CAT. NO. 861000-85C00). IT CONTAINS, IN ADDITION TO 9RDDISC, VERSIONS OF R'RECUR, 9WRDATA, 9GETBUFF,
090 AND M'DOIO THAT HAVE BEEN UPDATED TO ACCOMODATE 9RDDISC.
100 NOTE ALSO THAT THE SPELLING OF THE WORD DISK IN THE FORTRAN REF. MANUAL (901107) IS NOT CORRECT. THE
110 CORRECT SPELLING IS D I S K , FOR EXAMPLE, READ DISK.

B3870000 000 AA 940 EXAMINER DIAGNOSTIC SYSTEM (COVER) D VM
010 AUTHOR XEROX
020 870000-11A00 900634 DESCRIPTION PRINTED
030 870000-84A00 ABSOLUTE BINARY CARDS
040 900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT THE 940 COMPUTER DIAGNOSTIC SYSTEM USES THE SAME TECHNIQUES AS THE 930 COMPUTER EXAMINER WHEREVER
060 POSSIBLE, AND IT ENABLES AN OPERATOR TO EXERCISE AND DIAGNOSE THAT PORTION OF CORE MEMORY NOT REACHED BY
070 THE 930 EXAMINER AND ALL FEATURES OF THE 940 MAIN-FRAME LOGIC NOT COMMON TO THE 930.
080 COMMENTS THIS PROGRAM INCLUDES: 860001, 860002, 860003, 860004, MEMORY ACCESS, MEMORY DIAGNOSTIC, INSTRUCTION
090 DIAGNOSTIC AND INTERRUPT DIAGNOSTIC PROGRAMS, SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM

100 TECHNICAL MANUAL. SIZE: 16384 DECIMAL.

B3870001 000 AA 940 MEMORY ACCESS DIAGNOSTIC PROGRAM D VM
010 AUTHOR XEROX
020 870001-11A00 900634 DESCRIPTION PRINTED
030 870001-84A00 870000-84 ABSOLUTE BINARY CARDS
040 900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT TO DETECT AND ISOLATE PROBLEMS IN THE MEMORY RELABELING LOGIC.
060 COMMENTS SIZE: 16384 DECIMAL, THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM
070 (COVER), SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

B3870002 000 AA 940 MEMORY DIAGNOSTIC PROGRAM D VM
010 AUTHOR XEROX
020 870002-11A00 900634 DESCRIPTION PRINTED
030 870002-84A00 870000-84 ABSOLUTE BINARY CARDS
040 900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT TO EXERCISE MEMORY WITH A CHECKERBOARD WORD PATTERN, MONITOR MEMORY FOR ERRORS, AND AID IN DIAGNOSING
060 MEMORY FAILURE.
070 COMMENTS SIZE: 16384 DECIMAL, THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM
080 (COVER), SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

B3870003 000 AA 940 INSTRUCTION DIAGNOSTIC PROGRAM D VM
010 AUTHOR XEROX
020 870003-11A00 900634 DESCRIPTION PRINTED
030 870003-84A00 870000-84 ABSOLUTE BINARY CARDS
040 900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT TO AID IN DETERMINING AND ISOLATING FAULTS IN THE 940 INSTRUCTION LOGIC.
060 COMMENTS SIZE: 16384 DECIMAL, THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM
070 (COVER), SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

B3870004 000 AA 940 INTERRUPT DIAGNOSTIC PROGRAM D VM
010 AUTHOR XEROX
020 870004-11A00 900634 DESCRIPTION PRINTED
030 870004-84A00 870000-84 ABSOLUTE BINARY CARDS
040 900634 XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL
050 ABSTRACT TO DETECT AND ISOLATE PROBLEMS IN THE 940 INTERRUPT LOGIC.
060 COMMENTS SIZE: 16384 DECIMAL, THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM
070 (COVER), SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

B3870006 000 AA 940 MEMORY ADDRESS TEST D VM
 010 AUTHOR XEROX
 020 870006-11B00 DESCRIPTION PRINTED
 030 870006-84A00 ABSOLUTE BINARY CARDS
 040 ABSTRACT THE PROGRAM PERFORMS MEMORY ACCESSES AND CHECKS FROM THE CPU TO THE MEMORY OF A 940 COMPUTER. THE
 050 ACCESSES ARE MADE THROUGH RELABELING BYTES R0 - R7 AND M6 - M7, IN ADDITION LOCATIONS 4000 - 17777 OCTAL
 060 ARE ACCESSED DIRECTLY, READ ONLY AND OUT OF BOUNDS TRAPS ARE CHECKED THROUGH ALL RELABELING BYTES.
 070 COMMENTS THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH 48K OR 64K MEMORY WORDS AND EITHER PAPER TAPE OR CARD
 080 READER FACILITIES, THE PROGRAM REQUIRES THAT THE 940 INSTRUCTION DIAGNOSTIC OPERATES CORRECTLY, CONTROL
 090 OF THE PROGRAM IS THROUGH THE CONTROL CONSOLE.

B3870007 000 AA 940 940 DISC EXERCISER DIAGNOSTIC D VM
 010 AUTHOR XEROX
 020 870007-11A00 DESCRIPTION PRINTED
 030 870007-84A00 ABSOLUTE BINARY CARDS
 040 ABSTRACT THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE
 050 USER, THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE SEEK AND SEEK AND READ
 060 SEQUENCE, THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION, THE TEST HAS A SEEK/
 070 SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER, TWO CONSECUTIVE
 080 SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
 090 COMMENTS THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH A CARD READER OR PAPER TAPE READER.

B3870008 000 AA 940 940 RAD DIAGNOSTIC EXERCISER D VM
 010 AUTHOR XEROX
 020 870008-11A00 DESCRIPTION PRINTED
 030 870008-44A00 COMPRESSED CARDS
 040 870008-84A00 ABSOLUTE BINARY CARDS
 050 ABSTRACT THIS PROGRAM TESTS RAD CAPABILITY, RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED, ERROR
 060 OUTPUTS ARE LISTED ON THE CONSOLE TYPWRITER, CONTROL PARAMETERS ARE ALSO VARIABLE, A DETAILED ABSTRACT
 070 IS PRINTED AT LOAD TIME, THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL.
 080 COMMENTS TWO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD, BOTH BUFFERS ARE SETUP BEFORE THE RAD IS
 090 DRIVEN, THIS NECESSARY TO CHECK THE 'NEARLY WORD' INTERRUPT OPTION, ALL ERROR MESSAGE AND PARAMETER
 100 OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPWRITER READ DATA IS CHECKED AGAINST A KNOWN PATTERN, THE
 110 ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA, CONTROL THEN RANDOMLY SELECTS A RAD STARTING
 120 ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION, THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K
 130 WORDS, THIS IS EQUAL TO THREE RAD BANDS, BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS, PROGRAM IS
 140 LOADED USING THE ONE CARD LOADER, CATALOG NUMBER 850648.

B3870009 000 AB 940 940 TIME-SHARING SYSTEM DISC DUMP P VM

010 AUTHOR XEROX
020 870009-85800 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
030 901118 XDS 940 TERMINAL USER'S GUIDE
040 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
050 ABSTRACT THE DUMP HAS ALL THE CURRENT MONITOR, EXECUTIVE, UTILITIES PROGRAMS, AND SUBSYSTEMS FILES IN BINARY AND
060 SYMBOLIC, ALSO THERE ARE DESCRIPTIVE FILES ON : 1. MODIFYING 2. PERIPHERALS 3. SYSTEM MAKE 4. NEW
070 FEATURES 5. DISC FILES 6. RELEASE
080 COMMENTS AVAILABLE ON TWO TAPE REELS. NOTE: AN ADDITIONAL MINI-REEL IS REQUIRED FOR THE DISC DUMP/LOAD=2,0 AND
090 DISC SWAP=2,0

83870010 000 AB 940 940 WRITE SUBSYSTEMS ON RAD (WSD) P VM
010 AUTHOR XEROX
020 870010-34800 870026-35 SOURCE CARDS
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT THIS PROGRAM TRANSFERS THE SUBSYSTEMS FROM DISC FILES TO THE RAD.
050 COMMENTS INCLUDED WITH THE SYMBOLIC FILE IS A DETAILED DESCRIPTION FOR GENERATING THIS PROGRAM.

83870011 000 AB 940 940 OPERATOR'S EXECUTIVE P VM
010 AUTHOR XEROX
020 870011-34800 870026-35 SOURCE CARDS
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT THE OPERATOR'S EXECUTIVE IS COMPOSED OF TWO PARTS: (1) A CONSTANTS AND PART ONE, (2) COMMANDS AND PART TWO
050 THIS PROGRAM IS USED TO VALIDATE ACCOUNTS, PASSWORDS, USER NUMBERS, LEGAL LOG-IN TIMES, BROADCAST
060 LETTERS, COPY ACCOUNTING DATA TO A FILE, AND COMMANDS THAT ONLY THE OPERATOR CAN ACCESS. THE COMMAND
070 'HELP' WILL LIST THE ENTIRE AVAILABLE COMMANDS.
080 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC AND BINARY FILES NECESSARY FOR THE GENERATION OF OPERATOR'S
090 EXECUTIVE. INCLUDED IS A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE. NOTE: THIS PROGRAM IS
100 REQUIRED AS PART OF THE OPERATING SYSTEM. CHANGES IN OPERATION OF THE MONITOR AND EXECUTIVE CAN CAUSE
110 THIS PROGRAM TO FAIL.

83870012 000 AB 940 940 MAP DISC P VM
010 AUTHOR XEROX
020 870012-34800 870026-35 SOURCE CARDS
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT MAP DISC IS RESPONSIBLE FOR CLEARING THE RESIDENT BIT MAP FOR ALL DATA BLOCKS WHICH EXIST ON THE DISC
050 AND ARE IN THE MAPPED AREA. THIS AREA IS ONLY ONE FOURTH OF THE DISC. THE PROGRAM READS FILE INDEX
060 BLOCKS AND CHECKS FOR POINTERS INTO THE MAPPED AREA. IF ONE IS FOUND, THE PROGRAM WILL REQUEST THE
070 MONITOR TO CLEAR ONE BIT IN THE BIT MAP. CONFLICTS ARE PRINTED AND THE FINAL PHASE WILL DELETE A FILE
080 INDEX BLOCK.

090 COMMENTS A DETAILED GENERATION PROCEDURE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES. THERE ARE THREE SYMBOLIC
100 FILES AND FIVE BINARY FILES IN THIS PACKAGE

B3870013 000 AB 940 DISC SWAP P VM
010 AUTHOR XEROX
020 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
030 ABSTRACT THIS PROGRAM WILL COPY THE MONITOR INTO MEMORY. USE OF BREAKPOINTS 2-4 DETERMINE WHAT DISC WILL BE USED
040 TO COPY FROM, BREAKPOINT 1 IS NOW USED TO SELECT EITHER 64K OR 48K AS THE MEMORY SIZE.
050 COMMENTS A UTILITY TAPE IS THE COPY WHICH WILL BE SENT ON REQUEST. NOTE: DISC DUMP/LOAD IS INCLUDED AS PART OF
060 THE UTILITY TAPE.

B3870014 000 AB 940 940 DISC DUMP/LOAD P VM
010 AUTHOR XEROX
020 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
030 ABSTRACT THIS PROGRAM WILL EITHER COPY DATA FROM THE DISC TO MAGNETIC TAPE OR COPY DATA FROM MAGNETIC TAPE TO
040 DISC. THIS PROGRAM IS DELIVERED ON A UTILITY TAPE REEL IN A STANDARD FILL FORM. NOTE: ALSO INCLUDED IS
050 DSWAP (DISC DUMP/LOAD)
060 COMMENTS A DETAILED GENERATION DESCRIPTION FILE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES.

B3870016 000 AB 940 940 TIME-SHARING SYSTEM EXECUTIVE P VM
010 AUTHOR XEROX
020 870016-34B00 870026-35 SOURCE CARDS
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT THE EXECUTIVE IS THE INTERFACE BETWEEN THE 940 TIME-SHARING SYSTEM MONITOR AND THE 940 TERMINAL USER.
050 THE EXECUTIVE IS RESPONSIBLE FOR USER IDENTIFICATION, MAINTENANCE OF USER FILE DIRECTORIES, SUPERVISION
060 OF THE USE OF THE SYSTEM VIA LIMITING ACCESS TO COMMANDS WHICH REQUIRE SPECIAL STATUS. THE EXECUTIVE
070 CONSISTS OF SIX PACKAGES WHICH, WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE EXECUTIVE
080 FUNCTIONS OF THE 940 TIME-SHARING SYSTEM
090 COMMENTS THE EXECUTIVE AND THE MONITOR OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN
100 ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE
110 SHALL BE REGENERATED.

B3870017 000 AB 940 940 TIME SHARING SYSTEM MONITOR P VM
010 AUTHOR XEROX
020 870017-34B00 870026-35 SOURCE CARDS
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT THE MONITOR IS THE SUPERVISOR OF THE USE OF ALL SYSTEM RESOURCES. IT IS RESPONSIBLE FOR SCHEDULING THE
050 USE OF THE CPU, MEMORY MANAGEMENT, I/O DEVICE MANAGEMENT, ALL INTERRUPT PROCESSING, TELETYPE I/O
060 SUPERVISION AND A VARIETY OF USER SERVICES. THE MONITOR CONSISTS OF FOURTEEN PACKAGES WHICH WHEN

070 PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE MONITOR FUNCTIONS OF THE 940 TIME-SHARING SYSTEM.
080 COMMENTS THE MONITOR AND EXECUTIVE OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE
090 MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE
100 REGENERATED,

B3870018 000 AB 940 940 TAP P VM
010 AUTHOR XEROX
020 901117 XDS 940 TAP REFERENCE MANUAL
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT 940 TAP IS A TWO PASS TEXT-ORIENTED MACRO ASSEMBLER FEATURING A WIDE RANGE OF CONDITIONAL AND ITERATIVE
050 CAPABILITIES, TOGETHER WITH EXTERNAL LABEL AND OPERATION DEFINITIONS. PARAMETRIC PROGRAMMING CAPACITY IS
060 FURTHER ENHANCED BY NO RESTRICTIONS BEING PLACED UPON THE RECURSIVE INVOCATION AND DEFINITION OF MACROS.
070 TWO FORMS OF OBJECT CODE ARE AVAILABLE: (1) FULLY RELOCATABLE, COMPLETE WITH SYMBOL TABLE FOR INPUT TO
080 DDT; (2) ABSOLUTE SELF-FILLING BINARY.
090 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 TAP, INCLUDING A DETAILED
100 DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /TAP-N.0/.

B3870019 000 AB 940 940 QED P VM
010 AUTHOR XEROX
020 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
030 901112 XDS 940 QED REFERENCE MANUAL
040 ABSTRACT 940 QED IS A SOPHISTICATED TEXT EDITOR WHICH ALLOWS ANY SYMBOLIC FILE IN THE 940 SYSTEM TO BE QUICKLY
050 EDITED.
060 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 QED, INCLUDING A DETAILED
070 DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /QED-N.0/.

B3870020 000 AB 940 940 FORTRAN II COMPILER P VM
010 AUTHOR XEROX
020 901110 FORTRAN II REFERENCE MANUAL FOR XDS 940
030 TIME SHARING COMPUTER SYSTEMS,
040 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
050 ABSTRACT 940 FORTRAN II IS COMPOSED OF THREE PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN AN
060 EXTENDED FORTRAN II SYNTAX INCORPORATING MANY FORTRAN IV FEATURES, SUCH AS N-DIMENSIONAL ARRAYS,
070 GENERALIZED SUBSCRIPT FORMATION, AND MIXED-MODE EXPRESSIONS; (2) A RUN-TIME SYSTEM, CONSISTING OF
080 RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID; (3) A
090 LIBRARY WHOSE ENTRIES ARE CONDITIONALLY LOADED DEPENDING ON THE NEEDS OF THE USER PROGRAM. THE
100 PROCESSOR RUNS ONLY UNDER ISS-2.0 MONITOR.
110 COMMENTS THE GENERATION PROCEDURE IS GIVEN IN THE SYMBOLIC FILE /FII-N.0/.

B3870021 000 AB 940 940 DDT P VM
 010 AUTHOR XEROX
 020 901115 XDS 940 DDT REFERENCE MANUAL
 030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
 040 ABSTRACT 940 DDT IS A HIGHLY INTERACTIVE DEBUGGING TOOL, COUPLED WITH A SOPHISTICATED LOADER, HAVING THE
 050 FOLLOWING FEATURES: (1) BREAKPOINTING WHICH ALLOWS THE USER TO INSPECT THE CONDITION OF HIS PROGRAM AT
 060 STRATEGIC POINTS AND INTERVALS; (2) BLOCK STRUCTURE MANIPULATION OF SETS OF SYMBOLS BELONGING TO
 070 LOGICALLY SEPARATE PROGRAMS; (3) LIMITED ASSEMBLY AND, OPTIONALLY, IMMEDIATE EXECUTION OF INDIVIDUAL
 080 INSTRUCTIONS; (4) ASSEMBLY, INSERTION, AND DELETION OF INSTRUCTIONS OR DATA; (5) A VARIETY OF SERVICE
 090 FUNCTIONS SUCH AS WORD SEARCHES, RELABELING ALTERATION, CONDITIONAL SAVE AND LOAD OF SYMBOL TABLES, ETC.
 100 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 DDT, INCLUDING A DETAILED
 110 DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /DDT=N.0/.

B3870022 000 AB 940 940 CONVERSATIONAL FORTRAN P VM
 010 AUTHOR XEROX
 020 870022-34800 870025-35 SOURCE CARDS
 030 870022-51800 870025-55 LISTING PRINTED
 040 870022-84800 870025-85 ABSOLUTE BINARY CARDS
 050 901115 FORTRAN IV REFERENCE MANUAL FOR XDS 940 TIME SHARING SYSTEM
 060 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
 070 ABSTRACT 940 CONVERSATIONAL FORTRAN IS COMPOSED OF THREE PARTS: (1) AN INCREMENTAL COMPILER, WHICH ALLOWS THE
 080 STATEMENT-BY-STATEMENT PREPARATION OF PROGRAMS WRITTEN IN A LANGUAGE CLOSELY RESEMBLING FORTRAN IV; (2)
 090 A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER; (3) A COMMAND
 100 PROCESSOR, WHICH PERMITS INTERACTIVE CONTROL OF THE COMPILER AND RUN-TIME SYSTEM, PROVIDING EDIT, DEBUG,
 110 AND DIRECT STATEMENT EXECUTION FACILITIES.
 120 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CONVERSATIONAL FORTRAN,
 130 INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE
 140 /FOR=N.0/.

B3870023 000 AB 940 940 CAL P VM
 010 AUTHOR XEROX
 020 901114 XDS 940 CAL REFERENCE MANUAL
 030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
 040 ABSTRACT XDS CAL IS COMPOSED OF TWO PARTS: (1) AN INCREMENTAL COMPILER AND EDITOR, WHICH ALLOWS THE STATEMENT BY
 050 STATEMENT PREPARATION OF PROGRAMS WRITTEN IN AN ALGEBRAIC LANGUAGE CLOSELY RESEMBLING JCSS; (2) A
 060 RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER, AND IN ADDITION
 070 PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT
 080 PROGRAM.
 090 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CAL, INCLUDING A DETAILED

100 DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /CAL=N.0/.

B3870024 000 AB 940 940 BASIC P VM
010 AUTHOR XEROX
020 901111 XDS 940 BASIC REFERENCE MANUAL
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT 940 BASIC IS COMPOSED OF TWO PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN A SIMPLE
050 ALGEBRAIC LANGUAGE ON A STATEMENT-BY-STATEMENT BASIS; (2) A RUN-TIME SYSTEM, WHICH CONTROLS EXECUTION OF
060 THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF
070 STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
080 COMMENTS THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 BASIC, INCLUDING A DETAILED
090 DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /BAS=N.0/.

B3870025 000 AB 940 940 TSS MONITOR, EXEC, AND PROCESSORS (CO P VM
010 AUTHOR XEROX
020 870025-11B00 DESCRIPTION PRINTED
030 901116 TECHNICAL MANUAL FOR 940 TIME SHARING COMPUTER SYSTEM
040 ABSTRACT THIS IS A COVER NUMBER FOR ALL THE XDS 940 PROCESSORS, INCLUDING THE MONITOR AND EXECUTIVE. IT INCLUDES
050 THE FOLLOWING PROCESSORS AND UTILITIES: QED-870019, DD1-870021, TAP-870018, BASIC-870024, CAL-870023,
060 FORTRAN II-870020, LIB-870027, FURTRAN II R/T-870028, CONVERS, FORTRAN-870022, WRITE SUBSYSTEMS-MAD-
070 870010, OPERATORS EXECUTIVE-870011, MAP DISC-870012, EXECUTIVE-870016, MONITOR-870017.

B3870026 000 AA 940 940 TSS USERS UTILITY PROGRAMS P VM
010 AUTHOR L. D. MCDANIEL - XDS
020 870026-11A00 DESCRIPTION PRINTED
030 870026-35A00 * SOURCE MAG TAPE, 7 CHANNELS
040 ABSTRACT SIXTY-ONE ROUTINES IN THE 940 FILES FORMAT. FILES ARE RETRIEVED USING MAGTAPE HANDLER. THE FOURTH FILE
050 IS THE INDEX TO UTILITY PROGRAMS.
060 COMMENTS THE PROGRAMS ARE USED TO SOLVE RELATED PROBLEMS IN BUSINESS, SCIENCE, AND MATH. ADDITIONAL PROGRAMS
070 DEMONSTRATE 940 SUB-SYSTEMS.

B3870027 000 AB 940 FORTRAN II LIBRARY FOR THE XDS 940 P VM
010 AUTHOR XEROX
020 901110 FORTRAN II REFERENCE MANUAL FOR XDS 940
030 TIME-SHARING COMPUTER SYSTEM
040 901142 XDS 940 FORTRAN II TECHNICAL NOTES
050 ABSTRACT THIS IS A PART OF SDS940 FORTRAN II SYSTEM. IT CONSISTS OF LIBRARY ROUTINES WHICH ARE CONDITIONALLY
060 LOADED DEPENDING UPON THE NEEDS OF THE USER PROGRAMS.

B3870028 000 AB 940 FORTRAN II RUNTIME SYSTEM P VM
 010 AUTHOR XEROX
 020 901110 FORTRAN II REFERENCE MANUTEMS TIME-SHARING COMPUTER SYSTEMS
 030 901142 XDS 940 FORTRAN II TECHNICAL NOTES
 040 ABSTRACT THIS IS A PART OF FORTRAN II 940 SYSTEM. IT CONSISTS OF RESIDENT PROGRAMMED OPERATORS AND SERVICE
 050 ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID,

B3870029 000 AA 940 OLDS3.0 CONTROL MONITOR D VM
 010 AUTHOR XEROX
 020 870029-11A00 901591 DESCRIPTION PRINTED
 030 870029-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS IS THE CONTROL MONITOR NECESSARY TO CORRECTLY RUN THE 940 OLDS SYSTEM UNITS.

B3870030 000 AA 940 UNIT 0 CPU TESTS 3.0 D VM
 010 AUTHOR XEROX
 020 870030-11A00 901591 DESCRIPTION PRINTED
 030 870030-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 870030-51A00 LISTING PRINTED
 050 ABSTRACT THIS UNIT TESTS PRELIMINARY FUNCTION OF THE 940 TO ASSURE MINIMUM OPERATIONAL EFFICIENCY.
 060 COMMENTS UNIT 0 MUST BE RUN WITH THE OLDS CONTROL MONITOR

B3870031 000 AA 940 UNIT 1 CPU EXERCISER 3.0 D VM
 010 AUTHOR XEROX
 020 870031-11A00 901591 DESCRIPTION PRINTED
 030 870031-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT TESTS ALL CPU FUNCTIONS INCLUDING ARITHMETIC, LOGICAL, AND INTERRUPTS.
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS CONTROL MONITOR

B3870032 000 AB 940 UNIT 2 FLOATING POINT TESTS 3.0 D VM
 010 AUTHOR XEROX
 020 870032-11B00 901591 DESCRIPTION PRINTED
 030 870032-35B00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNITS TESTS THE OPERATION OF THE 94400 FLOATING POINT ARITHMETIC UNIT
 050 COMMENTS THIS PROGRAM MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

B3870033 000 AA 940 UNIT3 MEMORY TESTS FOR THE 2ND 16K 3.0 D VM
 010 AUTHOR XEROX
 020 870033-11A00 901591 DESCRIPTION PRINTED
 030 870033-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS

040 ABSTRACT THIS UNIT RUNS A MEMCRY DIAGNOSTIC FOR ADDRESSES 40000 TO 77777
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS 3,0 CONTROL MONITOR

B3870034 000 AA 940 UNIT 4 MEMORY TEST FOR THE 3RD 16K 3,0 D VM
 010 AUTHOR XEROX
 020 870034-11A00 901591 DESCRIPTION PRINTED
 030 870034-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT IS A MEMORY DIAGNOSTIC FOR ADDRESSES 100000 TO 13777
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS3,0 CONTROL MONITOR

B3870035 000 AA 940 UNIT 5 MEMORY TEST FOR THE 4TH 16K 3,0 D VM
 010 AUTHOR XEROX
 020 870035-11A00 901591 DESCRIPTION PRINTED
 030 870035-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT RUNS A DIAGNOSTIC FOR ADDRESSES 140000 TO 17777
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS 3,0 CONTROL MONITOR

B3870036 000 AB 940 UNIT 12 E CHANNEL RAD TEST 3,0 D VM
 010 AUTHOR XEROX
 020 870036-11B00 901591 DESCRIPTION PRINTED
 030 870036-35B00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT RUNS A TEST FOR THE 9367 RAD ADDRESS 26,66 ON E CHANNEL
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS 3,0 CONTROL MONITOR

B3870037 000 AA 940 UNIT 15 W CHANNEL RAD TEST 3,0 D VM
 010 AUTHOR XEROX
 020 870037-11A00 901591 DESCRIPTION PRINTED
 030 870037-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT RUNS A DIAGNOSTIC ON THE 9317 RAD ADDRESS 26,66 ON W CHANNEL
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS 3,0 CONTROL MONITOR

B3870038 000 AA 940 UNIT 21 W CHANNEL DISC TEST 3,0 D VM
 010 AUTHOR XEROX
 020 870038-11A00 901591 DESCRIPTION PRINTED
 030 870038-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT RUNS A DIAGNOSTIC ON THE 9164 DISC ON W CHANNEL
 050 COMMENTS THIS UNIT MUST BE RUN WITH THE OLDS 3,0 CONTROL MONITOR

B3870039 000 AA 940 UNIT 23 CTE 10/11 COM GEAR TEST 3,0 D VM

010 AUTHOR XEROX
 020 870039-11A00 901591 DESCRIPTION PRINTED
 030 870039-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT RUNS A DIAGNOSTIC ON THE 64 CHANNELS OF THE CTE 10/11 ASYNCHRONOUS TELEPHONE INTERFACE
 050 EQUIPMENT
 060 COMMENTS THIS UNIT MU BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

B3870040 000 AB 940 UNIT 18 E CHANNEL DISC D VM
 010 AUTHOR XEROX
 020 870040-11B00 901591 DESCRIPTION PRINTED
 030 870040-35B00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT TESTS THE 940 DISC FILE CONNECTED TO CHANNEL E. IT IS SIMILAR TO UNIT 21 FOR THE 9164 DISC
 050 FILE
 060 COMMENTS THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR

B3870041 000 AA 940 UNIT 19 F CHANNEL DISC D VM
 010 AUTHOR XEROX
 020 870041-11A00 901591 DESCRIPTION PRINTED
 030 870041-35A00 870042-35 SOURCE MAG TAPE, 7 CHANNELS
 040 ABSTRACT THIS UNIT TESTS THE DISC CONNECTED TO CHANNEL E IT IS SIMILAR TO UNIT 21 FOR THE 9164 DISC
 050 COMMENTS THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR

B3870042 000 AA 940 940 OLDS DIAGNOSTIC SYSTEM (COVER) D VM
 010 AUTHOR XEROX
 020 870042-11A00 901591 DESCRIPTION PRINTED
 030 870042-35A00 * SOURCE MAG TAPE, 7 CHANNELS
 040 901591 XDS 940 OLDS DIAGNOSTIC SYSTEM REFERENCE MANUAL
 050 ABSTRACT THIS DIAGNOSTIC ANALYZES AND EXERCISES THE 940 TIME-SHARING SYSTEM.
 060 COMMENTS THIS SYSTEM TAPE INCLUDES THE PROGRAMS LISTED UNDER CATALOG NUMBERS: 870029 THRU 870040

B3890158 000 AA 9-SERIES ARCSIN AND ARCCOS FUNCTIONS P UM
 010 AUTHOR XEROX
 020 890158-11A00 DESCRIPTION PRINTED
 030 890158-34A00 * SOURCE CARDS
 040 ABSTRACT THIS FORTRAN II SUBROUTINE COMPUTES THE ARC SINE AND ARC COSINE OF A VALUE AND RETURNS THE ANGLE IN
 050 RADIANS.
 060 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NO, 890180, PROGRAM REQUIRES 234 DECIMAL MEMCRY LOCATIONS, REQUIRES
 070 THE XDS FORTRAN II SYSTEM.

B3890159 000 AA 9-SERIES FACTORIAL ROUTINE P UM
 010 AUTHOR XEROX
 020 890159-11A00 DESCRIPTION PRINTED
 030 890159-34A00 * SOURCE CARDS
 040 ABSTRACT THIS FORTRAN II SUBROUTINE CALCULATES THE FACTORIAL OF A FIXED POINT VALUE.
 050 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00B00002, PROGRAM REQUIRES 39 DECIMAL MEMORY LOCATIONS AND THE
 060 FORTRAN II SYSTEM.

B3890160 000 AA 9-SERIES HYPERBOLIC SINE, COSINE AND TANGENT P UM
 010 AUTHOR XEROX
 020 890160-11A00 DESCRIPTION PRINTED
 030 890160-34A00 * SOURCE CARDS
 040 ABSTRACT FORTRAN II ROUTINE TO CALCULATE HYPERBOLIC SINE, COSINE AND TANGENT.
 050 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00B20001, PROGRAM REQUIRES 38 DECIMAL LOCATIONS FOR HSIN AND

060 HCOS AND 40 DECIMAL LOCATIONS FOR HTAN, TOTAL OF 116 DECIMAL LOCATIONS AND FORTRAN II SYSTEM REQUIRED.

B3890161 000 AA 9-SERIES POLYNOMIAL ADDITION OR SUBTRACTION P UM
010 AUTHOR XEROX
020 890161-11A00 DESCRIPTION PRINTED
030 890161-34A00 * SOURCE CARDS
040 ABSTRACT ADDS OR SUBTRACTS TWO POLYNOMIALS, ONE POLYNOMIAL MAY BE MULTIPLIED BY A SCALAR DURING THE PROCESS.

B3890162 000 AA 9-SERIES POLYNOMIAL PRODUCT P UM
010 AUTHOR D. C. BAXTER - NATIONAL RESEARCH COUNCIL
020 890162-11A00 DESCRIPTION PRINTED
030 890162-34A00 * SOURCE CARDS
040 ABSTRACT A FORTRAN II SUBROUTINE TO FORM THE PRODUCT OF TWO POLYNOMIALS WHOSE COEFFICIENTS ARE AVAILABLE AS
050 LINEAR ARRAYS.
060 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00002, PROGRAM REQUIRES 100 DECIMAL LOCATIONS OF STORAGE,
070 RUNS UNDER THE FORTRAN II SYSTEM.

B3890163 000 AA 9-SERIES POLYNOMIAL DIVISION, POLYDIV P UM
010 AUTHOR BAXTER
020 890163-11A00 DESCRIPTION PRINTED
030 890163-34A00 * SOURCE CARDS
040 ABSTRACT CALCULATES THE QUOTIENT AND REMAINDER FORMED ON DIVIDING TWO POLYNOMIALS.
050 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00C00003.

B3890164 000 AA 9-SERIES LINEAR POLYNOMIAL SUBSTITUTION, POLYSUBS P UM
010 AUTHOR D. C. BAXTER
020 890164-11A00 DESCRIPTION PRINTED
030 890164-34A00 * SOURCE CARDS
040 ABSTRACT COMPUTES THE RATIONAL POLYNOMIAL IN Z WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR
050 THE VARIABLE S IN A POLYNOMIAL F(S).

B3890165 000 AA 9-SERIES RATIONAL POLYNOMIAL SUBSTITUTION P UM
010 AUTHOR D. C. BAXTER
020 890165-11A00 DESCRIPTION PRINTED
030 890165-34A00 * SOURCE CARDS
040 ABSTRACT COMPUTES THE RATIONAL POLYNOMIAL IN Z, $XN(Z)/XD(Z)$, WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL
050 POLYNOMIAL FOR THE VARIABLE S IN A RATIONAL POLYNOMIAL FUNCTION OF S, $P(S)/Q(S)$.

B3890166 000 AA 9-SERIES SERIES EXPANSION OF RATIONAL POLYNOMIAL P UM

010 AUTHOR R. GAGNE, D. C. BAXTER
 020 890166-11A00 DESCRIPTION PRINTED
 030 890166-34A00 * SOURCE CARDS
 040 ABSTRACT EXPANDS A RATIONAL POLYNOMIAL INTO A TAYLOR SERIES.

B3890167 000 AA 9-SERIES CLIMB1 A HILL-CLIMBING SUBROUTINE P UM
 010 AUTHOR C. M. WOODSIDE
 020 890167-11A00 DESCRIPTION PRINTED
 030 890167-34A00 * SOURCE CARDS
 040 ABSTRACT A FORTRAN II SUBROUTINE SUBPROGRAM TO FIND THE SET OF ARGUMENTS WHICH MAXIMIZES OR MINIMIZES A FUNCTION,
 050 SUBJECT TO CONSTRAINTS ON THE ARGUMENTS OR ON OTHER FUNCTIONS OF THEM.
 060 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00007, PROGRAM REQUIRES 2134 DECIMAL LOCATIONS OF MEMORY
 070 AND THE FORTRAN II SYSTEM.

B3890168 000 AA 9-SERIES PATTERN OPTIMIZER P UM
 010 AUTHOR PAUL G. FRIEDMAN
 020 890168-11A00 DESCRIPTION PRINTED
 030 890168-34A00 * SOURCE CARDS
 040 ABSTRACT A FORTRAN II PROGRAM TO MINIMIZE A FUNCTION OF UP TO 5 VARIABLES.
 050 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00008, PROGRAM REQUIRES 276 WORDS OF MEMORY. REQUIRES A
 060 SUBROUTINE LABELED EVAL, CODING INDICATED IN THE WRITE-UP.

B3890169 000 AA 9-SERIES BAIRSTOW ROOTFINDER P UM
 010 AUTHOR D. C. BAXTER
 020 890169-11A00 DESCRIPTION PRINTED
 030 890169-34A00 * SOURCE CARDS
 040 ABSTRACT A FORTRAN II SUBROUTINE SUBPROGRAM TO CALCULATE THE REAL OR COMPLEX ROOTS OF A POLYNOMIAL EQUATION.
 050 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20001 PROGRAM REQUIRES 748 DECIMAL MEMORY LOCATIONS AND
 060 SUBROUTINE SQRT.

B3890170 000 AA 9-SERIES ROOTS OF POLYNOMIALS P UM
 010 AUTHOR D. C. BAXTER - NATIONAL RESEARCH COUNCIL
 020 890170-11A00 DESCRIPTION PRINTED
 040 890170-34A00 * SOURCE CARDS
 050 ABSTRACT TO ALLOW INPUT OF THE COEFFICIENTS OF A POLYNOMIAL FROM PAPER TAPE OR TYPEWRITER, AND TO COMPUTE AND
 060 TYPE OUT ITS REAL OR COMPLEX ROOTS, THE EFFECT OF AN ACCURACY PARAMETER EPS AND OF A CONVERGENCE LIMIT
 070 CAN ALSO BE TESTED.
 080 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20002 REQUIRES BAIRSTOW ROOTFINDER PROGRAM (PREV. NO.
 090 00C20001) AND A TOTAL OF 3171 (DEC) MEMORY LOCATIONS

B3890171 000 AA 9-SERIES ROOTBIS, ROOTFINDING BY BISECTION P UM
 010 AUTHOR MISS F. T. STOCK - NATIONAL RESEARCH COUNCIL
 020 890171-11A00 DESCRIPTION PRINTED
 030 890171-34A00 * SOURCE CARDS
 040 ABSTRACT A FORTRAN II SUBROUTINE TO EVALUATE ONE REAL ROOT OF A FUNCTION IN THE VICINITY OF AN INITIAL GUESS.
 050 THIS METHOD SHOULD BE USED ONLY WHERE OTHER METHODS FAIL AS IT IS NOT TIME EFFICIENT.
 060 COMMENTS PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20003 REQUIRES SUBROUTINES (FUNCTION) F(X) AND ABS. 168
 070 (DEC) MEMORY LOCATIONS.

B3890172 000 AA 9-SERIES LEGENDRE POLYNOMIAL P UM
 010 AUTHOR MISS F. T. STOCK
 020 890172-11A00 DESCRIPTION PRINTED
 030 890172-34A00 * SOURCE CARDS
 040 ABSTRACT THE PROGRAM EVALUATES THE LEGENDRE POLYNOMIAL $P_N(X) = (1/2^{NN}) D_N/DXN(X^2-1)^N$ BY THE RECURSION FORMULA
 050 $P_{N+1} = P_N X + (N/(N+1))(X P_N - P_{N-1})$.

B3890173 000 AA 9-SERIES GAMMA FUNCTION P UM
 010 AUTHOR MISS F. T. STOCK
 020 890173-11A00 DESCRIPTION PRINTED
 030 890173-34A00 * SOURCE CARDS
 040 ABSTRACT EVALUATION OF THE FUNCTION $(I+F)$ WHERE I IS THE INTEGRAL PORTION OF A NUMBER AND F IS THE FRACTIONAL
 050 PORTION, OR ALTERNATIVELY TO COMPUTE THE FACTORIAL OF AN INTEGER.

B3890174 000 AA 9-SERIES BESSEL FUNCTION J0, J1 Y0, Y1 P UM
 010 AUTHOR MISS F. T. STOCK
 020 890174-11A00 DESCRIPTION PRINTED
 030 890174-34A00 * SOURCE CARDS
 040 ABSTRACT EVALUATION OF BESSEL FUNCTIONS OF THE FIRST AND SECOND KIND OF ORDER ZERO AND ONE.

B3890175 000 AA 9-SERIES REAL EXPONENTIAL INTEGRAL P UM
 010 AUTHOR MISS F. T. STOCK
 020 890175-11A00 DESCRIPTION PRINTED
 030 890175-34A00 * SOURCE CARDS
 040 ABSTRACT THE PROGRAM COMPUTES THE REAL EXPONENTIAL INTEGRAL $-Ei(-X) = \int_X^\infty -U/U) DU$ FOR ANY REAL ARGUMENT GREATER
 050 THAN ZERO BY EVALUATING AN APPROXIMATING POLYNOMIAL.

B3890176 000 AA 9-SERIES BESSEL FUNCTION KN(X), P UM
 010 AUTHOR MISS F. T. STOCK

020 890176-11A00 DESCRIPTION PRINTED
 030 890176-34A00 * SOURCE CARDS
 040 ABSTRACT THE PROGRAM EVALUATES THE MODIFIED BESSEL FUNCTION OF THE SECOND KIND FOR INTEGRAL AND HALF-INTEGRAL
 050 ORDER.

B3890177 000 AA 9-SERIES BESSEL FUNCTION-FIRST KIND, ORDER ZERO P UM
 010 AUTHOR XEROX
 020 890177-11A00 DESCRIPTION PRINTED
 030 890177-34A00 * SOURCE CARDS
 040 ABSTRACT TO COMPUTE THE BESSEL FUNCTION OF THE FIRST KIND, ORDER ZERO, OF A FLOATING POINT ARGUMENT, X.

B3890178 000 AA 9-SERIES BESSEL FUNCTION SUBROUTINE P UM
 010 AUTHOR G. V. CONIGLIO - BAUSCH + LOMB
 020 890178-11A00 DESCRIPTION PRINTED
 030 890178-34A00 * SOURCE CARDS
 040 ABSTRACT TO COMPUTE THE VALUES OF THE BESSEL FUNCTIONS $J_p(x)$ FOR REAL ARGUMENT x AND THE SET OF ALL INTEGER
 050 ORDERS FROM 0 TO N .

B3890179 000 AA 9-SERIES BESSEL FUNCTIONS= $J_0, J_1, Y_0, Y_1, I_0, I_1, K_0, K_1$ P UM
 010 AUTHOR P. VIEILLARD - CAE, CITEC
 020 890179-11A00 DESCRIPTION PRINTED
 030 890179-34A00 * SOURCE CARDS
 040 ABSTRACT TO COMPUTE THE FLOATING POINT BESSEL FUNCTIONS, $J_0, J_1, Y_0, Y_1, I_0, I_1, K_0, K_1$, OF A SPECIFIED
 050 FLOATING POINT ARGUMENT.

B3890180 000 AA 9-SERIES GRADIENT MINIMIZATION ROUTINE - FPMIN P UM
 010 AUTHOR C. M. WOODSIDE - NATIONAL RESEARCH COUNCIL
 020 890180-11A00 DESCRIPTION PRINTED
 030 890180-34A00 * SOURCE CARDS
 040 ABSTRACT A FORTRAN II SUBROUTINE TO FIND THE MINIMUM OF A DIFFERENTIABLE FUNCTION.

B3890181 000 AA 9-SERIES DEFINITE INTEGRAL EVALUATION P UM
 010 AUTHOR MISS F. T. STOCK
 020 890181-11A00 DESCRIPTION PRINTED
 030 890181-34A00 * SOURCE CARDS
 040 ABSTRACT THE PROGRAM CALCULATES THE INTEGRAL OF A FUNCTION BETWEEN SPECIFIED LIMITS AND WITH SPECIFIED INTERVALS.
 050 THE OPERATOR MUST PROVIDE A FUNCTION $F(x)$ WHICH EVALUATES THE INTEGRAND.

B3890182 000 AA 9-SERIES DOUBLE INTEGRATION BY SIMPSONS P UM

010 AUTHOR MISS F. T. STOCK
 020 890182-11A00 DESCRIPTION PRINTED
 030 890182-34A00 * SOURCE CARDS
 040 ABSTRACT THE PROGRAM CALCULATES THE DOUBLE INTEGRAL OF A FUNCTION GIVEN THE INNER AND OUTER LIMITS OF INTEGRATION
 050 AND THE NUMBER OF INTERVALS TO BE USED BY APPLYING SIMPSONS RULE. THE OPERATOR MUST PROVIDE A FUNCTION
 060 $V(X,Y,Z)$ WHICH EVALUATES THE INTEGRAND.

B3890183 000 AA 9-SERIES RUNGE-KUTTA INTEGRATION P UM
 010 AUTHOR XEROX
 020 890183-11A00 DESCRIPTION PRINTED
 030 890183-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE A SOLUTION FOR FIRST-ORDER, SECOND-ORDER, OR COMBINATION OF FIRST AND SECOND ORDER
 050 DIFFERENTIAL EQUATIONS.

B3890184 000 AA 9-SERIES SOLUTION OF DIFFERENTIAL EQUATIONS R-K-G P UM
 010 AUTHOR D. C. BAXTER - NATIONAL RESEARCH COUNCIL
 020 890184-11A00 DESCRIPTION PRINTED
 030 890184-34A00 * SOURCE CARDS
 040 ABSTRACT A PAIR OF FORTRAN II SUBROUTINE SUBPROGRAMS TO ALLOW THE FINITE DIFFERENCE SOLUTION OF A SET OF
 050 SIMULTANEOUS, FIRST-ORDER, ORDINARY DIFFERENTIAL EQUATIONS BY THE RUNGE-KUTTA-GILL PROCEDURE. A MAIN
 060 PROGRAM IS ALSO INCLUDED AS AN EXAMPLE, WHICH COULD BE USED TO INPUT AND SOLVE COMPLETE EQUATIONS.

B3890185 000 AA 9-SERIES LAGRANGE INTERPOLATION P UM
 010 AUTHOR MISS F. T. STOCK
 020 890185-11A00 DESCRIPTION PRINTED
 030 890185-34A00 * SOURCE CARDS
 040 ABSTRACT GIVEN $N+1$ CORRESPONDING PAIRS OF DATA POINTS, WHERE THE VALUES OF THE INDEPENDENT VARIABLE MAY OR MAY
 050 NOT BE EQUIDISTANT, THE PROGRAM EVALUATES THE FUNCTION OF ANY SPECIFIED POINT USING LAGRANGE'S FORMULA
 060 OF INTERPOLATION.

B3890186 000 AA 9-SERIES POLYNOMIAL CURVE FIT P UM
 010 AUTHOR D. C. BAXTER - NATIONAL RESEARCH COUNCIL
 020 890186-11A00 DESCRIPTION PRINTED
 030 890186-34A00 * SOURCE CARDS
 040 ABSTRACT THE PROGRAM FITS A POLYNOMIAL OF DEGREE LESS THAN 11 THROUGH A SET OF DATA POINTS USING THE METHOD OF
 050 LEAST SQUARES. PROVISION IS MADE FOR CHOOSING DEGREE, NUMBER OF POINTS, AND FIRST POINT TO BE USED.

B3890187 000 AA 9-SERIES LEAST SQUARES POLYNOMIAL P UM
 010 AUTHOR D. C. BAXTER - NATIONAL RESEARCH COUNCIL

020 890187-11A00 DESCRIPTION PRINTED
 030 890187-34A00 * SOURCE CARDS
 040 ABSTRACT PROGRAM READS IN FROM PAPER TAPE OR TYPEWRITER UP TO 200 DATA POINTS. LEAST SQUARES POLYNOMIAL IS
 050 COMPUTED AND COEFFICIENTS TYPED OUT. MAXIMUM AND ROOT-MEAN-SQUARE DEVIATION OF THIS CURVE FROM DATA
 060 POINTS IS TYPED OUT. DEGREE, NUMBER OF DATA POINTS TO BE USED, AND FIRST POINT TO BE USED ARE TYPED IN.

B3890188 000 AA 9-SERIES FOURIER COEFFICIENTS PERIODIC FUNCTIONS P UM
 010 AUTHOR W. B. LENG - TMC
 020 890188-11A00 DESCRIPTION PRINTED
 030 ABSTRACT A FORTRAN PROGRAM FOR COMPUTING THE FOURIER SERIES COEFFICIENTS OF A PERIODIC FUNCTION AND THE CURVE
 040 DERIVED FROM THEM.

B3890189 000 AA 9-SERIES FREQUENCY BY PRONY'S METHOD P UM
 010 AUTHOR K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
 020 890189-11A00 DESCRIPTION PRINTED
 030 890189-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES AN APPROXIMATE FREQUENCY COMPUTATION FOR EMPIRIC DATA REPRESENTABLE BY A SINE WAVE.

B3890190 000 AA 9-SERIES SINE WAVE MONITOR P UM
 010 AUTHOR K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
 020 890190-11A00 DESCRIPTION PRINTED
 030 890190-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES A LEAST SQUARE CURVE FIT, INCLUDING THE FREQUENCY, TO A SINE WAVE OF EMPIRIC DATA. ALSO
 050 PROVIDES A FOURIER COEFFICIENT RETRIEVAL WHEN ONE USES THE ROUTINE TO SUBTRACT OUT THE LOWER HARMONICS.

B3890191 000 AA 9-SERIES CURVE/SURFACE FIT ARBITRARY FUNCTION P UM
 010 AUTHOR K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
 020 890191-11A00 DESCRIPTION PRINTED
 030 890191-34A00 * SOURCE CARDS
 040 ABSTRACT THIS ROUTINE IS USED TO CURVE FIT EMPIRIC DATA TO ANY USER SELECTED COMPUTABLE FUNCTION. BESIDES THE
 050 USUAL POLYNOMIAL FITTING, THIS ROUTINE IS ALMOST AS EASILY USED TO CURVE FIT WITH EXPONENTIALS, FOURIER
 060 EXPANSIONS, ALSO DATA SMOOTHING, INSTRUMENT CALIBRATION CURVES, DAMPED SINE WAVES, SAWTOOTH WAVES,
 070 DOPPLER CURVES, ETC.

B3890192 000 AA 9-SERIES NON-LINEAR CURVE FIT PROGRAM P UM
 010 AUTHOR R. E. AUSTIN - NASA
 020 890192-11A00 DESCRIPTION PRINTED
 030 890192-34A00 * SOURCE CARDS
 040 ABSTRACT TO DETERMINE TYPE OF CURVE THAT IS REPRESENTATIVE OF PARTICULAR INPUT POINTS AND COMPUTE ADDITIONAL

050 POINTS.

B3890193 000 AA 9-SERIES MATRIX MULTIPLICATION P UM
010 AUTHOR D. C. BAXTER
020 890193-11A00 DESCRIPTION PRINTED
030 890193-34A00 * SOURCE CARDS
040 ABSTRACT COMPUTES THE PRODUCT OF TWO MATRIX ARRAYS.

B3890194 000 AA 9-SERIES REAL MATRIX INVERSION (RMINV) P UM
010 AUTHOR XEROX
020 890194-11A00 DESCRIPTION PRINTED
030 890194-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.

B3890195 000 AA 9-SERIES REAL MATRIX MULTIPLY (RMMLL) P UM
010 AUTHOR XEROX
020 890195-11A00 DESCRIPTION PRINTED
030 890195-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.

B3890196 000 AA 9-SERIES REAL MATRIX TRANSPOSE (RMTRA) P UM
010 AUTHOR XEROX
020 890196-11A00 DESCRIPTION PRINTED
030 890196-34A00 * SOURCE CARDS
040 ABSTRACT TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE
050 TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.

B3890197 000 AA 9-SERIES REAL MATRIX ADDITION (RMADD) P UM
010 AUTHOR XEROX
020 890197-11A00 DESCRIPTION PRINTED
030 890197-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.

B3890198 000 AA 9-SERIES REAL MATRIX SUBTRACTION (RMSUB) P UM
010 AUTHOR XEROX
020 890198-11A00 DESCRIPTION PRINTED
030 890198-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES

050 ANY SIZE AND TO FACILITATE THE MANIPULATION OF THESE ARRAYS IN STORAGE.

B3890205 000 AA 9-SERIES GAUSSIAN NORMAL PROBABILITY ORDINATE P UM
010 AUTHOR XEROX
020 890205-11A00 DESCRIPTION PRINTED
030 890205-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY FUNCTION ORDINATE OF AN ARGUMENT.

B3890206 000 AA 9-SERIES GAUSSIAN NORMAL PROBABILITY INTEGRAL P UM
010 AUTHOR XEROX
020 890206-11A00 DESCRIPTION PRINTED
030 890206-34A00 * SOURCE CARDS
040 ABSTRACT TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY INTEGRAL OF AN ARGUMENT USING AN APPROXIMATION FORMULA.

B3890207 000 AA 9-SERIES SUPERCOMPRESSIBILITY FACTORS NATURAL GAS P UM
010 AUTHOR TOM WYRICK - TEXAS GAS TRANSMISSION CORP.
020 890207-11A00 DESCRIPTION PRINTED
030 890207-34A00 * SOURCE CARDS
040 ABSTRACT A FORTRAN PROGRAM TO CALCULATE AMERICAN GAS ASSOCIATION SUPERCOMPRESSIBILITY FACTORS FOR NATURAL GAS
050 FROM 0 TO 5000 PSIG OVER A RANGE OF -40 TO 240 F.

B3890208 000 AA 9-SERIES MULTIPLE LINEAR REGRESSION P UM
010 AUTHOR P. G. FRIEDMAN
020 890208-11A00 DESCRIPTION PRINTED
030 890208-34A00 * SOURCE CARDS
040 ABSTRACT A FORTRAN II PROGRAM FOR MULTIPLE LINEAR REGRESSION. THIS PROGRAM ACCEPTS INPUT DATA AND SETS UP THE
050 NORMAL EQUATION MATRIX, WHICH IS THEN INVERTED IN THE LSG SUBROUTINE.

B3890209 000 AA 9-SERIES LEAST SQUARE SUBROUTINE, LSG P UM
010 AUTHOR XEROX
020 890209-11A00 DESCRIPTION PRINTED
030 890209-34A00 * SOURCE CARDS
040 ABSTRACT A FORTRAN II SUBPROGRAM TO INVERT THE NORMAL EQUATION MATRIX AND TYPE IN REGRESSION COEFFICIENTS AND
050 OTHER STATISTICAL DATA.

B3890210 000 AA 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (1RAND) P UM
010 AUTHOR XEROX
020 890210-11A00 DESCRIPTION PRINTED
030 890210-34A00 * SOURCE CARDS

040 ABSTRACT IRAND IS A FORTRAN FUNCTION SUBROUTINE OF ONE PARAMETER, THE SEED OF A RANDOM NUMBER SEQUENCE. THE
050 VARIABLE I IN THE FUNCTION CALL IRAND (I) IS THE SEED AND IS ORIGINALLY SET BY THE USER. EACH TIME IRAND
060 (I) IS USED, THE RANDOM NUMBER IS LEFT IN I AND IF I IS UNDISTURBED BETWEEN IRAND (I) USES, A SEQUENCE OF
070 FULL, SINGLE PRECISION INTEGERS WITH TOTAL PERIOD OF 224 IS GENERATED. THE SEQUENCE CAN BE
080 RE-INITIALIZED OR CHANGED BY SETTING I TO THE DESIRED VALUE. CALLING SEQUENCE IS IRAND (I). RESULT IS
090 THE RANDOM NUMBER IN I. RANGE OF VALUES IS -8388608 TO +8388607.

B3890211 000 AA 9-SERIES RANDOM NUMBER GENERATOR P UM
010 AUTHOR MICHAEL LINDENMEYER - NASA
020 890211-11A00 DESCRIPTION PRINTED
030 890211-34A00 * SOURCE CARDS
040 ABSTRACT A FORTRAN II FUNCTION WHICH GENERATES (A) RANDOM NUMBERS FROM THE UNIFORM DISTRIBUTION, NORMALIZED
050 BETWEEN -1.0 AND +1.0, OR (B) RANDOM NUMBERS TAKEN FROM THE NORMAL (GAUSSIAN) DISTRIBUTION WITH MEAN 0.0
060 AND VARIANCE 1.0. A FORTRAN TEST PROGRAM IS PROVIDED AS A DEMONSTRATION OF THE USE OF THE PROGRAM AND
070 TO COMPUTE RANDOM NUMBERS AS A CHECK OF THE VALIDITY OF THE ROUTINE.

B3890212 000 AA 9-SERIES RANDOM NUMBER GENERATOR, RANDU P UM
010 AUTHOR BERNARD A. SOBEL - ETHYL CORP.
020 890212-11A00 DESCRIPTION PRINTED
030 890212-34A00 * SOURCE CARDS
040 ABSTRACT INITIALLY ENTER THE FUNCTION WITH THE FOLLOWING TYPE STATEMENT: X=RANDU(1). THIS ENABLES THE PROGRAM TO
050 CYCLE SO THAT THE STARTING NUMBERS ARE INDETERMINATE. SENSE SWITCHES 4 AND 3 ARE INITIALLY RESET AND
060 MAY BE SET AT ANY TIME AFTER FIRST ENTRY (IN ORDER OF SSW4 AND THEN SSW3). ONCE USED, THE SENSE
070 SWITCHES ARE NEVER RECALLED AND MAY BE USED FOR OTHER PURPOSES. ALL SUBSEQUENT ENTRIES TO THIS FUNCTION
080 ARE AS FOLLOWS: X= RANDU(2).

B3890213 000 AA 9-SERIES UNCORRELATED RANDOM NUMBER GENERATOR P UM
010 AUTHOR WILLIAM B. KENDALL - JET PROPULSION LABS
020 890213-11A00 DESCRIPTION PRINTED
030 890213-34A00 * SOURCE CARDS
040 ABSTRACT A FAST AND SIMPLE ROUTINE FOR THE GENERATION OF UNCORRELATED PSEUDO-RANDOM NUMBERS (47-BITS), UNIFORMLY
050 DISTRIBUTED BETWEEN ZERO AND ONE. THIS ROUTINE IS SELF-LOADING, RELOCATABLE AND IS LOADED BY THE NORMAL
060 FILL PROCEDURE. THE ROUTINE IS ENTERED BY A BRM INSTRUCTION. THE CONTENTS OF THE A AND B REGISTERS ARE
070 DESTROYED AND REPLACED WITH THE NEXT POSITIVE DOUBLE PRECISION 47-BIT PSEUDO-RANDOM NUMBER, THE MOST
080 SIGNIFICANT 23 BITS IN THE A REGISTER, THE LEAST SIGNIFICANT 24 BITS IN THE B REGISTER.

B3890214 000 AA 9-SERIES PSEUDO-RANDOM NUMBER GENERATOR (RANDX) P UM
010 AUTHOR C. M. WOODSIDE - NATIONAL RESEARCH COUNCIL
020 890214-11A00 DESCRIPTION PRINTED

030 890214-34A00 * SOURCE CARDS
 040 ABSTRACT GENERATES A SINGLE FLOATING-POINT NORMAL PSEUDO-RANDOM VARIATE, WITH UNIT STANDARD DEVIATION.

B3890215 000 AA 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (RAND) P UM
 010 AUTHOR XEROX
 020 890215-11A00 DESCRIPTION PRINTED
 030 890215-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES A RANDOM NUMBER GENERATOR IN THE FORM OF A MACHINE LANGUAGE SUBROUTINE.

B3890217 000 AA 9-SERIES LINEAR REGRESSION ANALYSIS P UM
 010 AUTHOR XEROX
 020 890217-11A00 DESCRIPTION PRINTED
 030 890217-34A00 * SOURCE CARDS
 040 ABSTRACT DESIGNED AS AN AID IN LINEAR REGRESSION ANALYSIS TO DETERMINE THE BEST FIT OF COMBINATIONS OF DEPENDENT
 050 AND INDEPENDENT VARIABLES, WHERE LITTLE IS KNOWN OF THE FUNCTIONAL RELATIONSHIPS, OR OF THE VARIABLES
 060 THAT ARE IMPORTANT. A SUPPLEMENTARY PROGRAM IS PROVIDED THAT WILL COMPUTE THE REGRESSION COEFFICIENTS
 070 ASSOCIATED WITH SELECTED OUTPUT VARIABLE COMBINATIONS FROM THE ABOVE PROGRAM.

B3890219 000 AA 9-SERIES FORTRAN II MAGNETIC TAPE I/O ROUTINE P UM
 010 AUTHOR R.R. ROSE - DOUGLAS AIRCRAFT CO.
 020 890219-11A00 DESCRIPTION PRINTED
 030 890219-34A00 * SOURCE CARDS
 040 ABSTRACT A FORTRAN CALLABLE SUBROUTINE TO PROVIDE I/O CONTROL FOR A MAGNETIC TAPE UNIT, NUMBER 0 THROUGH 7, ON
 050 THE W, Y, C, OR D CHANNEL.

B3890220 000 AA 9-SERIES READ BLOCKED INPUT FROM MAG. TAPE P UM
 010 AUTHOR MARY SPENCER - UNIV. OF CHICAGO
 020 890220-11A00 DESCRIPTION PRINTED
 030 890220-34A00 * SOURCE CARDS
 040 ABSTRACT A SUBROUTINE FOR THE MODIFICATION OF THE FORTRAN SYSTEM WHICH WILL ALLOW THE SYSTEM TO ACCEPT BLOCKED
 050 LOGICAL RECORDS AS BCD INPUT.

B3890221 000 AA 9-SERIES CONVOLUTION & FILTERING UNIT I/O ROUTINE P UM
 010 AUTHOR XEROX
 020 890221-11A00 DESCRIPTION PRINTED
 030 890221-34A00 * SOURCE CARDS
 040 ABSTRACT PROGRAM TO FACILITATE INPUT/OUTPUT TO THE XDS CFE-1 UNIT TO COMPUTE (1) THE CORRELATION OF TWO TIME
 050 SERIES, (2) THE CONVOLUTION OF A TIME SERIES WITH A FILTER OPERATOR, AND (3) THE OPERATION OF A
 060 TIME-REVERSED FILTER ON A TIME SERIES.

B3890222 000 AA 9-SERIES CONVOLUTION,CORR,FILTER,, OF TIME SERIES P UM
 010 AUTHOR XEROX
 020 890222-11A00 DESCRIPTION PRINTED
 030 890222-34A00 * SOURCE CARDS
 040 ABSTRACT ROUTINE COMPUTES THE CORRELATION OF TWO TIME SERIES, THE CONVOLUTION OF A TIME SERIES WITH A FILTER, OR
 050 THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES,

B3890223 000 AA 9-SERIES BLANK PAPER TAPE LEADER GENERATOR P UM
 010 AUTHOR DR. D. GOSPODNETIC
 020 890223-11A00 DESCRIPTION PRINTED
 030 890223-34A00 * SOURCE CARDS
 040 ABSTRACT PUNCHES 12 CHARACTERS OF BLANK PAPER TAPE LEADER.

B3890224 000 AA 9-SERIES FAST FORTRAN PRINT SUBROUTINE P UM
 010 AUTHOR JOHN LOBDELL - SOUTHERN METHODIST UNIV.
 020 890224-11A00 DESCRIPTION PRINTED
 030 890224-34A00 * SOURCE CARDS
 040 ABSTRACT INCREASES THE SPEED OF THE XDS FORTRAN PRINT ROUTINE. THIS PROGRAM CHECKS FOR ZONES AND PRINTS ONLY
 050 THOSE REQUIRED.

B3890225 000 AA 9-SERIES OSCILLOSCOPE DISPLAY ROUTINE P UM
 010 AUTHOR XEROX
 020 890225-11A00 DESCRIPTION PRINTED
 030 890225-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER
 050 GENERATORS.

B3890226 000 AA 9-SERIES PLOT PACKAGE FOR XDS 9175 PLOTTER P UM
 010 AUTHOR A. SAVITZKY - PERKIN-ELMER
 020 890226-11A00 DESCRIPTION PRINTED
 030 890226-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES USERS OF XDS 900 SERIES COMPUTERS AND XDS 9175 PLOTTERS (CALCOMP) THE CAPABILITY OF
 050 COMPREHENSIVE GRAPHICAL OUTPUT DISPLAY; OR TO USE ANY PART OF THE PACKAGE AS NECESSARY

B3890227 000 AA 9-SERIES SCOOP TAPE PLOTTING ROUTINE, SCOPL-2 P UM
 010 AUTHOR G. LENTZ - UNIV. OF CHICAGO
 020 890227-11A00 DESCRIPTION PRINTED
 030 890227-34A00 * SOURCE CARDS

040 ABSTRACT PROGRAM TO PLOT TAPES PREPARED BY THE CALCOMP SCOOP PROGRAMMING PACKAGE ON THE XDS ON-LINE PLOTTER.

B3890228 000 AA 9-SERIES GENERAL GRAPHIC GENERA=PLOTTERTER P UM
010 AUTHOR R. T. MACINTYRE - BAUSCH + LOMB, INC.
020 890228-11A00 DESCRIPTION PRINTED
030 890228-34A00 * SOURCE CARDS
040 890228-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT PROVIDES GENERAL PURPOSE PRODUCTION OF MASTER COPIES OF FORMS, CHARTS, DIAGRAMS, ETC. ON THE CALCOMP
060 PLOTTER.

B3890229 000 AA 9-SERIES ON-LINE PRINT ROUTINE, PRNLN P UM
010 AUTHOR L. A. LITTLETON, UNIVERSITY OF CHICAGO
020 890229-11A00 DESCRIPTION PRINTED
030 890229-44A00 * COMPRESSED CARDS
040 ABSTRACT PRNLN PROVIDES A CONVENIENT CALLING SEQUENCE FORMAT FOR PRINTING ON THE TYPEWRITER AND/OR PRINTER.

B3890232 000 AA 9-SERIES PLOT PACKAGE WITH LABELING P UM
010 AUTHOR K. M. JAMERSON - HONEYWELL, INC.
020 890232-11A00 DESCRIPTION PRINTED
030 890232-34A00 * SOURCE CARDS
040 ABSTRACT FACILITATES CREATION OF SCALED, LABELED PLOTS. THIS FORTRAN SUBROUTINE COMPUTES NEW VALUES OF VMIN AND
050 VMAX WITH VARIABLE UNITS/IN. SELECTED FROM 1, 2, 4, 5 AND A POWER OF TEN. LONG IS THE DESIRED LENGTH OF
060 THE AXIS IN INCHES AND IVSC IS THE POWER OF TEN FOUND BY THE SUBROUTINE.

B3890233 000 AA 9-SERIES SEMI-LOG/LINEAR PLOT PACKAGE P UM
010 AUTHOR J. DARSIE - HONEYWELL, INC.
020 890233-11A00 DESCRIPTION PRINTED
030 890233-34A00 * SOURCE CARDS
040 ABSTRACT FACILITATES PROGRAMMING SEMI-LOG PLOTS IN FORTRAN. A CALL TO A211AXIS SETS UP THE AXIS, DRAWS AND
050 LABELS IT, AND SETS UP A211PLOT. A CALL THEN TO A211PLOT PLOTS THE CURVE.

B3890234 000 AA 9-SERIES PLOT PACKAGE SPECIAL CHART A03 P UM
010 AUTHOR K. M. JAMERSON - HONEYWELL, INC.
020 890234-11A00 DESCRIPTION PRINTED
030 890234-34A00 * SOURCE CARDS
040 ABSTRACT THIS PACKAGE ALLOWS USE OF THE SPECIAL CHART =A03. IT DRAWS THE AXIS, SCALES AS NECESSARY TO MAKE THE
050 DATA FIT THE PAPER, AND SETS UP A200PLOT. THEN A200PLOT SHOULD BE CALLED TO PLOT THE CURVES. THESE
060 SYMBOLS ARE .1 INCH IN SIZE. INTERRUPTS ON THE W BUFFER

B3890235 000 AA 9-SERIES PLOT PACKAGE - NON-LABELING P UM
 010 AUTHOR K. M. JAMERSON - HONEYWELL, INC.
 020 890235-11A00 DESCRIPTION PRINTED
 030 890235-34A00 * SOURCE CARDS
 040 ABSTRACT THIS IS A NONLABELING FORTRAN PLOTTING SUBROUTINE WHICH WILL SET UP FOR PLOTTING AND DO AUTOMATIC
 050 SCALING FOR USE WITH A200 PLOT, TO OBTAIN MULTIPLE CURVES ON ONE AXIS(FRAME), ENTER A201 AXIS ONCE AND
 060 A200 PLOT ONCE FOR EACH CURVE.

B3890236 000 AA 9-SERIES POLAR PLOT PACKAGE P UM
 010 AUTHOR J. DARSIE - HONEYWELL, INC.
 020 890236-11A00 DESCRIPTION PRINTED
 030 890236-34A00 * SOURCE CARDS
 040 ABSTRACT THIS PACKAGE SETS UP A FRAME FOR A POLAR PLOT BY A CALL TO A212 AXIS AND THEN PLOTS IN A POLAR FASHION
 050 BY CALLING THE A212PLOT ROUTINE, IT ALSO LABELS THE AXIS.

B3890237 000 AA 9-SERIES CALCOMP PLOTTER SUBROUTINE PACKAGE P UM
 010 AUTHOR W. G. PECK, R. T. MACINTYRE - BAUSCH AND LOMB, INC.
 020 890237-11A00 DESCRIPTION PRINTED
 030 890237-24A00 RELOCATABLE BINARY CARDS
 040 890237-34A00 * SOURCE CARDS
 050 ABSTRACT GENERAL PURPOSE PLOTTING SUBROUTINES WITH MINIMUM SPACE REQUIREMENTS AND MAXIMUM OPERATING SPEED.

B3890239 000 AA 9-SERIES CORE DUMP TO MAGNETIC TAPE PROGRAM P UM
 010 AUTHOR JOHN LOBDELL - SOUTHERN METHODIST UNIV.
 020 890239-11A00 DESCRIPTION PRINTED
 030 890239-34A00 * SOURCE CARDS
 040 ABSTRACT ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO MAGNETIC TAPE, LOAD PROGRAM BY STANDARD FILL
 050 FROM EITHER CARDS OR PAPER TAPE, BRU TO LOCATION 37675, SET A REGISTER WITH STARTING LOCATION TO BE
 060 DUMPED AND B REGISTER WITH ENDING LOCATION, CLEAR HALF AND GO.

B3890240 000 AA 9-SERIES CORE DUMP TO UNBUFFERED LINEPRINTER P UM
 010 AUTHOR JOHN LOBDELL - SOUTHERN METHODIST UNIV.
 020 890240-11A00 DESCRIPTION PRINTED
 030 890240-34A00 * SOURCE CARDS
 040 ABSTRACT ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO UNBUFFERED LINEPRINTER.

B3890241 000 AA 9-SERIES FORTRAN CALCOMP PLOTTER ROUTINE P UM
 010 AUTHOR JOHN LOBDELL - SOUTHERN METHODIST UNIVERSITY
 020 890241-11A00 DESCRIPTION PRINTED

030 890241-24A00 RELLOCATABLE BINARY CARDS
 040 ABSTRACT THIS SUBROUTINE IS CALLED FROM A FORTRAN II PROGRAM AND CAN DRAW AXES (LINEAR OR LOGARITHMIC), PLOT
 050 TITLES, LABEL AXES AND PLOT EITHER CONTINUOUS LINE PLOTS OR POINT PLOTS.

B3890242 000 AA 9300 OSCILLOSCOPE DISPLAY ROUTINE P UM
 010 AUTHOR XEROX
 020 890242-11A00 DESCRIPTION PRINTED
 030 890242-34A00 * SOURCE CARDS
 040 ABSTRACT TO PROVIDE FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER
 050 GENERATORS.
 060 COMMENTS COMPUTER CONFIGURATION: XDS 9300 WITH 21 INCH CRT DISPLAY. SOURCE LANGUAGE: META-SYMBOL. STORAGE:278 DEC

B3890243 000 AA 9-SERIES XDS 920/930 SYMBOL MNEMONIC TABLE P UM
 010 AUTHOR XDS - W.B. KENDALL - JET PROPULSION LABS
 020 890243-11A00 DESCRIPTION PRINTED
 030 890243-23A00 RELLOCATABLE BINARY PAPER TAPE, 8 LEVELS
 040 890243-24A00 RELLOCATABLE BINARY CARDS
 050 890243-34A00 * SOURCE CARDS
 060 ABSTRACT PROVIDES SYMBOL WITH THE MNEMONIC TABLE OF THE TARGET MACHINE, LOCALIZES OTHER ASSEMBLER FEATURES WHICH
 070 ARE ORIENTED SPECIFICALLY TO THE TARGET MACHINE, ESTABLISHES THE RETURN LINKAGE FOR EXIT FROM SYMBOL.

B3890244 000 AA 9-SERIES COMPUTER ASSEMBLY PROGRAM FOR 2K-910 P UM
 010 AUTHOR JOHN H. OKERLUND - UNIV. OF WASHINGTON
 020 890244-11A00 DESCRIPTION PRINTED
 030 ABSTRACT AN ABBREVIATED ASSEMBLY PROGRAM FOR THE XDS 910 WITH 2K CORE MEMORY.

B3890245 000 AA 9-SERIES AC-DC CIRCUIT ANALYSIS COMPILER P UM
 010 AUTHOR CLIFFORD J. VANDERYACHT - SPARTON ELECTRONICS
 020 890245-11A00 DESCRIPTION PRINTED
 030 ABSTRACT COMPILES STATEMENTS DESCRIBING AN ELECTRONIC CIRCUIT WRITTEN IN A BRANCH NOTATION INTO A FORTRAN PROGRAM
 040 CONTAINING MATRIX EQUATIONS.
 050 COMMENTS COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4096 WORD OF MEMORY WITH PAPER TAPE READER, AND
 060 PUNCH AND CONSOLE TYPEWRITER. PAPER TAPE COMES IN FOUR PARTS

B3890246 000 AA 9-SERIES MONITOR INPUT/OUTPUT PACKAGE-QUINOUT P UM
 010 AUTHOR XEROX
 020 890246-11A00 DESCRIPTION PRINTED
 030 890246-34A00 * SOURCE CARDS
 040 ABSTRACT DESIGNED TO HANDLE BUFFERED MAGNETIC TAPE, LINE PRINTER, CARD READER, OR TYPEWRITER I/O FOR FORTRAN IV

050 AND META-SYMBOL PROGRAMS.

83890247 000 AA 9-SERIES FORTRAN SEARCH ARRAY P UM
010 AUTHOR K. M. JAMERSON - HONEYWELL, INC.
020 890247-11A00 DESCRIPTION PRINTED
030 ABSTRACT SEARCHES A FIXED-POINT ARRAY FOR A MATCHING ITEM AND RETURNS THE LOCATION OF THE ITEM.

83890248 000 AA 9-SERIES SORT SUBROUTINE P UM
010 AUTHOR GORDON LENTZ - UNIVERSITY OF CHICAGO
020 890248-11A00 DESCRIPTION PRINTED
030 890248-34A00 * SOURCE CARDS
040 ABSTRACT ROUTINE TO SORT AN ARRAY OR ARRAYS OF NUMBERS STORED IN CORE INTO ASCENDING SEQUENCE BASED ON SORT KEY.

83890249 000 AA 9-SERIES EDIT, CHARACTER STREAM EDITING PROGRAM P UM
010 AUTHOR JACK MACHANIK
020 890249-11A00 DESCRIPTION PRINTED
030 890249-34A00 * SOURCE CARDS
040 ABSTRACT TO MAKE EASILY EDIT FORTRAN SOURCE TAPES, SYMBOL SOURCE TAPES, AND FORTRAN BCD DATA TAPES, BY CONTENT AS
050 WELL AS LOCATION.

83890250 000 AA 9-SERIES LABEL TRACE ROUTINE, L-FORTRANRAN P UM
010 AUTHOR PAUL JORGENSEN - AUTOMATIC ELECTRIC LABS
020 890250-11A00 DESCRIPTION PRINTED
030 890250-34A00 * SOURCE CARDS
040 ABSTRACT THIS PROGRAM IS A REVISION OF THE LABEL TRACE ROUTINE (SYS100) CONTAINED IN THE FORTRAN LIBRARY.
050 BREAKPOINT SWITCH 1 IS USED TO PERMIT OR SUPPRESS THE LABEL TRACE AT EXECUTION TIME.

83890251 000 AA 9-SERIES REAL TIME FORTRAN OCTAL DUMP SUBROUTINE P UM
010 AUTHOR T. H. VIND
020 890251-11A00 DESCRIPTION PRINTED
040 890251-34A00 * SOURCE CARDS
050 ABSTRACT PROVIDES AN OCTAL DUMP FOR DEBUGGING

83890252 000 AA 9-SERIES MEMORY DUMP FOR 9372 PRINTER P UM
010 AUTHOR K. JAMERSON - HONEYWELL, INC.
020 890252-11A00 DESCRIPTION PRINTED
030 890252-24A00 RELOCATABLE BINARY CARDS
040 ABSTRACT PRINTS SPECIFIED SECTIONS OF MEMORY, 8 WORDS PER LINE, ON THE 9372 LINE PRINTER. BIT PATTERNS WHICH
050 REPEAT ARE INDICATED RATHER THAN PRINTED REDUNDANTLY.

B3890253 000 AA 9-SERIES FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST P UM
 010 AUTHOR R. F. ULRICH, DOUGLAS AIRCRAFT CO.
 020 890253-11A00 DESCRIPTION PRINTED
 030 890253-34A00 * SOURCE CARDS
 040 ABSTRACT GIVES A RUN-TIME SYMBOLIC LISTING OF ANY FORTRAN ROUTINE IN SYMBOL 8 LANGUAGE.

B3890254 000 AA 9-SERIES SHIFT ROUTINE FOR A AND B REGISTERS P UM
 010 AUTHOR L. A. LITTLETON - UNIV. OF CHICAGO
 020 890254-11A00 DESCRIPTION PRINTED
 040 890254-34A00 * SOURCE CARDS
 050 ABSTRACT SHF POP CONSISTS OF ALS, ARS, BLS AND BRs. THE PACKAGE PROVIDES SINGLE-REGISTER SHIFT INSTRUCTIONS IN
 060 EACH DIRECTION FOR BOTH THE A AND B REGISTERS.

B3890255 000 AA 9-SERIES HALT AND TRANSFER SIMULATION ROUTINE P UM
 010 AUTHOR L. A. LITTLETON - UNIV. OF CHICAGO
 020 890255-11A00 DESCRIPTION PRINTED
 030 890255-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES A POP TO SIMULATE AN INTERRUPT-PROTECTED 'HALT AND TRANSFER' INSTRUCTION.

B3890256 000 AA 9-SERIES SIMULATION OF SKIP ON COMPARISON INST. P UM
 010 AUTHOR L. A. LITTLETON - UNIV. OF CHICAGO, LASR
 020 890256-11A00 DESCRIPTION PRINTED
 030 890256-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES A POP TO SIMULATE A SINGLE INSTRUCTION 'SKIP IF A LESS THAN OR EQUAL TO M.'

B3890257 000 AA 9-SERIES SINGLE INSTRUCTION FLAG OPERATION, FLGPO P UM
 010 AUTHOR L. A. LITTLETON - UNIV. OF CHICAGO
 020 890257-11A00 DESCRIPTION PRINTED
 030 890257-34A00 * SOURCE CARDS
 040 ABSTRACT CONSISTS OF 5 POPs WHICH PROVIDE SINGLE INSTRUCTION FLAG SETTING, RESETTNG, AND TESTING FOR WHICH THE
 050 FLAG DOES NOT REQUIRE EXTRA STORAGE.

B3890258 000 AA 9-SERIES LINE PRINTER PLOTTING PACKAGE P UM
 010 AUTHOR MRS. PATRICIA GRASSLER, THE MITRE CORP.
 020 890258-11A00 DESCRIPTION PRINTED
 030 890258-34A00 * SOURCE CARDS
 040 ABSTRACT ROUTINES FOR PLOTTING DATA ON A LINE PRINTER.

B3890259 000 AA 9-SERIES GRAPH ROUT FOR THE LINEPRINTER-PLOTTING P UM
 010 AUTHOR B. BUND, PERKIN-ELMER AND R.K. BOSE, DOUGLAS AIRCRAFT CO.
 020 890259-11A00 DESCRIPTION PRINTED
 030 890259-34A00 * SOURCE CARDS
 040 ABSTRACT EIGHT SUBROUTINES PROVIDE CAPABILITY FOR ON-LINE GRAPHING USING THE LINE PRINTER. THESE ROUTINES ALLOW
 050 THREE METHODS OF PLOTTING POINTS WITH VERTICAL AND HORIZONTAL AXES WHICH ARE SCALED AND TITLED. THE
 060 AXES ARE ALONG THE LEFTHAND AND BOTTOM EDGES OF THE PAGE.

B3890260 000 AA 9-SERIES GRAPH ROUTINES FOR LINE PRINTER-PLOTTING P UM
 010 AUTHCR BARBARA BUND - PERKIN-ELMER CORP.
 020 890260-11A00 DESCRIPTION PRINTED
 030 890260-34A00 * SOURCE CARDS
 040 ABSTRACT PROVIDES CAPABILITY FOR ON-LINE PLOTTING USING THE LINE PRINTER

B3890261 000 AA 9-SERIES TAPE HANDLING ROUTINE - TAPE P UM
 010 AUTHCR C. A. BURNS - UNIV. OF CHICAGO
 020 890261-11A00 DESCRIPTION PRINTED
 030 890261-34A00 * SOURCE CARDS
 040 ABSTRACT A ROUTINE TO PROVIDE CONVENIENT MAGNETIC TAPE HANDLING.

B3890262 000 AA 9-SERIES TYPEWRITER (STD) LISTING OUTPUT SUBR P UM
 010 AUTHCR W. B. KENDALL - JET PROPULSION LABS
 020 890262-11A00 DESCRIPTION PRINTED
 030 890262-34A00 * SOURCE CARDS
 040 ABSTRACT TO OUTPUT ON THE TYPEWRITER (STANDARD SELECTRIC) THE SYMBOL OUTPUT LISTING, EITHER UNCONDITIONALLY OR IN
 050 A DIAGNOSTIC MODE, UNDER BPT4 CONTROL.

B3890263 000 AA 9-SERIES TYPEWRITER (15' CARRIAGE) LISTING OUTPUT P UM
 010 AUTHCR W. B. KENDALL - JPL SUBROUTINE.
 020 890263-11A00 DESCRIPTION PRINTED
 030 ABSTRACT TO OUTPUT ON A 15' WIDE CARRIAGE SELECTRIC, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER
 040 BREAKPOINT 4 CONTROL.

B3890264 000 AA 9-SERIES SET OR DETECT ITH BIT OF A WORD P UM
 010 AUTHCR MISS G. P. GREEN - NATIONAL RESEARCH COUNCIL
 020 890264-11A00 DESCRIPTION PRINTED
 030 ABSTRACT A SUBPROGRAM TO SET OR DETECT THE ITH BIT OF A WORD.

B3890265 000 AA 9-SERIES CARD READER END OF FILE TEST P UM

	010	AUTHOR	P. J. WELLENSTEIN		
	020		890265-11A00	DESCRIPTION PRINTED	
	030		890265-34A00 *	SOURCE CARDS	
	040	ABSTRACT FORTRAN SUBROUTINE TO TEST FOR EOF CONDITION ON CARD READER.			
B3890266	000	AA 9-SERIES	LINE PRINTER LISTING SUBROUTINE		P UM
	010	AUTHOR	W. B. KENDALL - JET PROPELLSION LABS		
	020		890266-11A00	DESCRIPTION PRINTED	
	030		890266-34A00 *	SOURCE CARDS	
	040	ABSTRACT PERMITS OUTPUT LISTING ON A LINE PRINTER, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER			
	050	BREAKPOINT CONTROL.			
B3890267	000	AA 900-SERIES	FORTRAN FLOWCHART PROGRAM		P UM
	010	AUTHOR	D. PIXLEY, BAUSCH & LOMB, INC.		
	020		890267-11A00	DESCRIPTION PRINTED	
	030		890267-34A00 *	SOURCE CARDS	
	040	ABSTRACT PRODUCES A FLOWCHART FROM ANY GIVEN FORTRAN II PROGRAM.			
	050	COMMENTS COMPUTER CONFIGURATION: ANY 900 SERIES COMPUTER WITH CARD READER AND LINE PRINTER. 3179 DECIMAL MEMORY			
	060	SOURCE LANGUAGE: FORTRAN II			
B3890268	000	AA 9-SERIES	PRINTER UTILITY PROGRAM		P UM
	010	AUTHOR	D. PIXLEY - BAUSCH + LOMB		
	020		890268-11A00	DESCRIPTION PRINTED	
	030		890268-24A00	RELUCATABLE BINARY CARDS	
	040		890268-34A00 *	SOURCE CARDS	
	050	ABSTRACT PROVIDES A GENERAL MEANS FOR LISTING CARDS ON A HIGH-SPEED PRINTER WITH A VARIETY OF SPECIAL-PURPOSE			
	060	OPTIONS WHICH WOULD OTHERWISE HAVE TO BE PROGRAMMED SPECIFICALLY FOR A GIVEN TYPE LISTING.			
B3890269	000	AA 9-SERIES	CARD RESEQUENCE - DUPLICATOR (REPRO)		P UM
	010	AUTHOR	K. P. AMBROSE - DOUGLAS AIRCRAFT CO.		
	020		890269-11A00	DESCRIPTION PRINTED	
	030		890269-34A00 *	SOURCE CARDS	
	040	ABSTRACT PROVIDES A CONVENIENT IN-HOUSE METHOD OF RESEQUENCING A SYMBOLIC PROGRAM CARD DECK, AND TO PRODUCE A			
	050	FINAL RESEQUENCED VERSION OF A CARD DECK WITHOUT RELEASING THE DECK TO EAM.			
B3890270	000	AA 9-SERIES	LIBRARY UPDATE EXAMPLE		P UM
	010	AUTHOR	K. P. AMBROSE, DOUGLAS AIRCRAFT CO.		
	020		890270-11A00	DESCRIPTION PRINTED	
	030		890270-34A00 *	SOURCE CARDS	

040 ABSTRACT TO PROVIDE A SKELETON FORM, FOR REFERENCE, OF A COMPLETE USERS' FORTRAN LIBRARY PACKAGE INCLUDING ALL
050 CONTROL CARDS NECESSARY TO COMPILE-ASSEMBLE AND INSERT THE BINARY OUTPUT AS THE FIRST ROUTINES IN THE
060 FORTRAN LIBRARY.

B3890271 000 AA 9-SERIES PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG. P UM
010 AUTHOR W. B. KENDALL - JPL TAPE INTERM. OUTPUT SUBROUTINE
020 890271-11A00 DESCRIPTION PRINTED
030 890271-34A00 * SOURCE CARDS
040 ABSTRACT TO READ SYMBOLIC INPUT RECCRDS FOR SYMBOL. DURING PASS 1 THESE RECCRDS MAY BE COPIED, IF BPT 3 IS SET,
050 FROM PAPER TAPE (OR TYPEWRITER) TO MAGNETIC TAPE UNIT 1, FROM WHICH THEY ARE READ DURING PASS 2.

B3890272 000 AA 9-SERIES CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE P UM
010 AUTHOR W. B. KENDALL - JPL INTERM. OUTPUT SUBROUTINE (CSI)
020 890272-11A00 DESCRIPTION PRINTED
030 890272-34A00 * SOURCE CARDS
040 ABSTRACT TO READ SYMBOLIC INPUT RECCRDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED FROM CARDS TO
050 MAGNETIC TAPE UNIT 1 (BPT 3 SET), FROM WHICH THEY ARE READ DURING PASS 2.

B3890273 000 AA 9-SERIES BINARY TO DECIMAL CONVERSION P UM
010 AUTHOR H.P. BRIAR - AERJET-GENERAL CORP.
020 890273-11A00 DESCRIPTION PRINTED
030 ABSTRACT BID A BINARY TO DECIMAL SUBROUTINE WILL CONVERT THE CONTENTS OF A AND B INTO 7 DECIMAL DIGITS AND
040 DECIMAL POINT OR A - SIGN, DECIMAL POINT AND 6 DIGITS. THE CONVERTED BID WILL BE PACKED 2 CH/WD READY
050 FOR OUTPUT WITH LEADING ZEROS SUPPRESSED.

B3890274 000 AA 9-SERIES XDS 92 PAPER TAPE EDITOR P UM
010 AUTHOR H. P. BRIAR - AERJET-GENERAL CORP
020 890274-11A00 DESCRIPTION PRINTED
030 ABSTRACT PROPER SETTING OF THE BREAKPOINT SWITCHES WITH AUXILIARY TYPING OF THE NUMBER OF RECORDS TO BE PROCESSED
040 ALLOWS REPRODUCTION, LISTING, INSERTION OR DELETION OF SYMBOL SOURCE OR FORTRAN SOURCE STATEMENTS.

B3890275 000 AA 9-SERIES FREQUENCY RESPONSE OF DIGITAL TRANSFER P UM
010 AUTHOR D. C. BAXTER FUNCTION
020 890275-11A00 DESCRIPTION PRINTED
030 890275-34A00 * SOURCE CARDS
040 ABSTRACT COMPUTATION OF AMPLITUDE AND PHASE OF THE RESPONSE OF A LINEAR SAMPLED-DATA SYSTEM TO AN INPUT SINUSOID
050 OF FREQUENCY ω .

B3890276 000 AA 9-SERIES INVERSE Z-TRANSFORM P UM

010 AUTHOR R. E. GAGNE
 020 890276-11A00 DESCRIPTION PRINTED
 030 890276-34A00 * SOURCE CARDS
 040 ABSTRACT CALCULATION OF THE FIRST $M+1$ TERMS OF THE POWER SERIES INVERSION OF A Z TRANSFORM.

B3890277 000 AA 9-SERIES D-T-L CIRCUIT DESIGN P UM
 010 AUTHOR W. B. LENG AND G. ROGOFF
 020 890277-11A00 DESCRIPTION PRINTED
 030 ABSTRACT CALCULATES R_1 , R_2 , R_3 , FAN-OUT AND DISSIPATED POWER FOR THE FAMILIAR D-T-L NAND GATE CIRCUIT, GIVING
 040 ANSWERS IN EXACT CALCULATED VALUES OR IN COMMERCIALY AVAILABLE STANDARD RESISTANCES FOR WORST-CASE
 050 CONDITIONS.

B3890278 000 AB 9-SERIES BASIC CRITICAL PATH PROGRAM P UM
 010 AUTHOR R. BOWMAN - XDS
 020 890278-11A00 DESCRIPTION PRINTED
 030 890278-34B00 * SOURCE CARDS
 040 ABSTRACT A BASIC PROGRAM THAT CALCULATES THE CRITICAL PATH OF A SPECIFIC PROJECT ON A MINIMUM XDS 900 SERIES
 050 COMPUTER; ALSO, SLACK TIMES ARE COMPUTED FOR ALL TASKS WITHIN THE PROJECT.

B3890279 000 AA 9-SERIES U.S. STANDARD EARTH MODEL ATMOSPHERE P UM
 010 AUTHOR XEROX
 020 890279-11A00 DESCRIPTION PRINTED
 030 890279-34A00 * SOURCE CARDS
 040 ABSTRACT CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE AND SPEED OF SOUND AT ANY GIVEN EARTH ALTITUDE,
 050 AT A LATITUDE OF 45.

B3890280 000 AA 9-SERIES U.S. STANDARD EARTH ATMOSPHERE ROUTINE P UM
 010 AUTHOR XEROX
 020 890280-11A00 DESCRIPTION PRINTED
 030 890280-34A00 * SOURCE CARDS
 040 ABSTRACT ROUTINE TO CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN
 050 ALTITUDE AND AT ANY GIVEN LATITUDE.

B3890281 000 AA 9-SERIES U.S. STANDARD MARS ATMOSPHERE ROUTINE(196 P UM
 010 AUTHOR XEROX
 020 890281-11A00 DESCRIPTION PRINTED
 030 890281-34A00 * SOURCE CARDS
 040 ABSTRACT CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE
 050 WITHIN THE SPHERE OF INFLUENCE OF MARS.

B3890282 000 AA 9-SERIES U.S. STANDARD VENUS ATMOSPHERE ROUTINE P UM
 010 AUTHOR XEROX
 020 890282-11A00 DESCRIPTION PRINTED
 040 890282-34A00 * SOURCE CARDS
 050 ABSTRACT CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND AT ANY GIVEN ALTITUDE OF
 060 VENUS' SPHERE-OF-INFLUENCE.

B3890283 000 AA 9-SERIES CIRCUIT DESIGN ANALYSIS CIRC DC P UM
 010 AUTHOR XEROX
 020 890283-11A00 DESCRIPTION PRINTED
 030 890283-25A00 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
 040 890283-35A00 890283-25 SOURCE MAG TAPE, 7 CHANNELS
 050 ABSTRACT A FORTRAN II BASED SOFTWARE PACKAGE TO PERFORM DC CIRCUIT DESIGN ANALYSIS

B3890284 000 AA 9-SERIES AIRPLANE LAT-DIR TIME HISTORY P UM
 010 AUTHOR JAMES L. SAMUELS
 020 890284-11A00 DESCRIPTION PRINTED
 030 ABSTRACT SOLVES THE THREE DEGREE-OF-FREEDOM LATERAL-DIRECTIONAL AIRPLANE EQUATIONS OF MOTION, USING FOURTH ORDER
 040 RUNGE-KUTTA INTEGRATION AND TYPES A TIME HISTORY. USEFUL FOR CHECKING LAT-DIR PORTION OF ANALOG
 050 SIMULATIONS.

B3890285 000 AA 9-SERIES UTILITIES INDUSTRY PACKAGE P UM
 010 AUTHOR C. PASTEL AND V. WRAY - SOUTHERN CALIFORNIA EDISON
 020 890285-11A00 DESCRIPTION PRINTED
 030 890285-34A00 * SOURCE CARDS
 040 ABSTRACT PACKAGE OF SEVEN ROUTINES TO PROVIDE THE FOLLOWING: (1) GENERALIZED METHOD FOR SOLVING POWER SYSTEM LOAD
 050 FLOWS; (2) RATE AND REVENUE EVALUATION; (3) LINE PROFILE SURVEY; (4) VOLTAGE DROP AND LOSS EVALUATION,
 060 (5) RULING SPAN CALCULATION; (6) PROBABILITY OF LOSS OF LOAD COMPUTATION; (7) TRANSFORMER HEAT RUN.

B3890286 000 AA 9-SERIES RPL, A DATA REDUCTION LANG. PRECOMPILER P UM
 010 AUTHOR FRANK C. BEGUAERT - MITRE CORP.
 020 890286-11A00 DESCRIPTION PRINTED
 030 890286-25A00 890286-35 RELOCATABLE BINARY MAG TAPE, 7 CHANNELS
 040 890286-35A00 * SOURCE MAG TAPE, 7 CHANNELS
 050 ABSTRACT RPL IS A PRECOMPILER WRITTEN IN FORTRAN II THAT GENERATES FORTRAN II OUTPUT STATEMENTS ON MAGNETIC TAPE.
 060 THE PROGRAM ALLOWS THE USE OF A DATA BASE DICTIONARY THAT MAKES IT UNNECESSARY FOR THE USER TO KNOW
 070 WHERE WITHIN A MAGNETIC TAPE RECORD PIECES OF DATA ARE RECORDED, RPL PROVIDES A NUMBER OF PROGRAM
 080 GENERATION FUNCTIONS WHICH GENERATE AS OUTPUT FORTRAN PROGRAM SEGMENTS THAT PERFORM DATA REDUCTION

090 OPERATIONS.

B3890287 000 AA 9-SERIES ON-LINE MATHEMATICAL COMPILER P UM
010 AUTHOR R. L. SCHWARTZ * XDS
020 890287-11A00 DESCRIPTION PRINTED
030 890287-34A00 * SOURCE CARDS
040 ABSTRACT PROVIDES THE USER WITH THE CAPABILITY OF USING HIS XDS 900 SERIES COMPUTER AS A SOPHISTICATED DESK
050 CALCULATOR.

B3890288 000 AA 9-SERIES LOGICAL, BIT, AND CHARACTER MANIPULATION P UM
010 AUTHOR H. PACHON - AUTOMATIC ELECTRIC LABS
020 890288-11A00 DESCRIPTION PRINTED
030 890288-34A00 * SOURCE CARDS
040 ABSTRACT A PACKAGE OF ROUTINES TO EXTEND THE FLEXIBILITY OF THE XDS FORTRAN II PROGRAMMING SYSTEM TO INCLUDE THE
050 ENCODING OF NON-NUMERICAL PROGRAMS.

B3890289 000 AA 9-SERIES LINE PRINTER PLOTTING ROUTINE P UM
010 AUTHOR P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
020 890289-11A00 DESCRIPTION PRINTED
030 890289-34A00 * SOURCE CARDS
040 ABSTRACT PROVIDES A PLOT OF A SET OF POINTS WHOSE COORDINATES ARE STORED IN X AND Y ARRAYS.

B3890290 000 AA 9-SERIES HISTOGRAPH PLOT LINE PRINTER-HSTPLOT P UM
010 AUTHOR P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
020 890290-11A00 DESCRIPTION PRINTED
030 890290-34A00 * SOURCE CARDS
040 ABSTRACT THIS SUBROUTINE PLOTS A HISTOGRAPH AND COMPUTES STATISTICAL PARAMETERS OF AN ARBITRARY ARRAY OF FLOATING
050 POINT NUMBERS.

B3890291 000 AA 9-SERIES WINNIM - PROGRAM TO PLAY NIM P UM
010 AUTHOR P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
020 890291-11A00 DESCRIPTION PRINTED
030 890291-34A00 * SOURCE CARDS
040 ABSTRACT THIS IS A DEMONSTRATION PROGRAM THAT ALLOWS THE USER TO PLAY NIM WITH THE COMPUTER.

B3890292 000 AA 9-SERIES SAMPLE DATA FROM ANALOG INPUT AND STORE P UM
010 AUTHOR I. RAUDZIN - NATIONAL RESEARCH COUNCIL.
020 890292-11A00 DESCRIPTION PRINTED
030 890292-34A00 * SOURCE CARDS

040 ABSTRACT A FORTRAN II SUBROUTINE TO SAMPLE DATA FROM A SPECIFIED ANALOG INPUT UNDER EXTERNAL CLOCK CONTROL AND
050 STORE IN MEMORY, TWO SAMPLES/WORD. CALCULATES THE SUMS OF THE FIRST FOUR POWERS.

B3890293 000 AA 9-SERIES BCD CONVERSION, XDS - UNIVAC - XDS P UM
010 AUTHOR K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
020 890293-11A00 DESCRIPTION PRINTED
030 ABSTRACT PROVIDES BCD CONVERSION BETWEEN THE UNIVAC CHARACTER SET AND THE IBM COMPATIBLE CHARACTER SET USED BY XDS

B3890294 000 AA 9-SERIES MAG TAPE POSITION ROUTINE P UM
010 AUTHOR MISS I. RAUDZINS - NATIONAL RESEARCH COUNCIL
020 890294-11A00 DESCRIPTION PRINTED
030 ABSTRACT POSITIONS THE MAG TAPE ON UNIT 0 AT THE NTH FILE, AND OPTIONALLY TO SIMULATE A MAG TAPE FILE TO LOAD
040 THAT FILE.

B3890295 000 AA 9-SERIES INTERPOLATION OR EXTRAPOLATION ROUTINE P UM
010 AUTHOR R. M. WELCH - DOUGLAS AIRCRAFT CO.
020 890295-11A00 DESCRIPTION PRINTED
030 ABSTRACT ROUTINE TO INTERPOLATE OR EXTRAPOLATE. TO RETURN EITHER X AS A FUNCTION OF Y OR Y AS A FUNCTION OF X,
040 AND A ROUTINE TO READ DATA CARDS IN AND SET UP NECESSARY TABLES.

B3890296 000 AA 9-SERIES PAPER TAPE DUPLICATOR P UM
010 AUTHOR H. P. BRIAR - AEROJET GENERAL CORP.
020 890296-11A00 DESCRIPTION PRINTED
030 ABSTRACT WHEN THE XDS 92 IS EQUIPPED WITH 60 CS PUNCH AND 300 CS READER, THE PROGRAM FURNISHES A HEAD TAPE/PUNCH
040 TAPE OPERATING MODE FOR THE 300 CS READER TO THE 60 CS PUNCH. THIS PROVIDES A DUPLICATE PAPER TAPE.

B3890297 000 AA 9-SERIES UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING P UM
010 AUTHOR K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
020 890297-11A00 DESCRIPTION PRINTED
030 890297-34A00 * SOURCE CARDS
040 890297-35A00 SOURCE MAG TAPE, 7 CHANNELS
050 ABSTRACT PROVIDES A CONVENIENT SOFTWARE GRAPHIC PACKAGE (USING THE XDS 9185 GRAPHIC LANGUAGE) FOR PLOTTING ON THE
060 FOLLOWING FIVE DEVICES: XDS 9185 CATHODE RAY TUBE DISPLAY UNIT, LINE PRINTER, TYPEWRITER, CALCUMP, AND
070 SC4020.

B3890298 000 AA 9-SERIES FORTRAN II RAD LINKING PROCESSOR-RADLNK P UM
010 AUTHOR D. PIXLEY - XDS
020 890298-11A00 DESCRIPTION PRINTED
030 890298-34A00 * SOURCE CARDS

040 890298-44A00 * COMPRESSED CARDS
050 ABSTRACT THE ENTIRE SYSTEM ALLOWS THE USER TO CREATE A LINK TAPE PROCESSOR WHICH WHEN FILLED FROM TAPE 0, ACCEPTS
060 A STANDARD FORTRAN II LINK TAPE FROM TAPE UNIT 2, PLACES EACH LINK ON THE RAD AND ACCEPTS A TWO DIGIT
070 DECIMAL NUMBER FROM A CARD TO DETERMINE WHICH LINK TO EXECUTE FIRST. SUCCESSIVE LINKS ARE EXECUTED BY
080 THE CALL LINK(N) OR CALL NEXTLINK FORTRAN II STATEMENTS.

B3890299 000 AA 9-SERIES SC4020 SUBROUTINES FOR XDS 920/930 P UM
010 AUTHOR GENERAL DYNAMICS-CONVAIR DIVISION
020 890299-11A00 DESCRIPTION PRINTED
030 890299-34A00 * SOURCE CARDS
040 ABSTRACT THE SUBROUTINE PACKAGE IS A SUBSET OF THE STANDARD SC SCORS PACKAGE. MOST OF THE CAPABILITIES AS
050 DESCRIBED IN THE SC DOC. 9500056 ARE PRESENT IN THE XDS PACKAGE. A MINIMUM OF 16K MEMORY WITH A MONARCH
060 CONFIGURATION IS NEEDED TO COMPILE AND EXECUTE USING THE PACKAGE. OUTPUT IS A FORMATED SC4020 TAPE
070 READY FOR PLOTTING.

B3890300 000 AA 9-SERIES DISK (RAD) HANDLER P UM
010 AUTHOR R. MADDEN - CHEVRON
020 890300-11A00 DESCRIPTION PRINTED
030 890300-34A00 * SOURCE CARDS
040 ABSTRACT TO PROVIDE INPUT AND OUTPUT TO A DISK ON CHANNEL E (DACC)

B3890301 000 AA 9-SERIES LABEL TRACE, MODIFIED 160 SYS P UM
010 AUTHOR E. A. SEAMAN - PRINCE ALBERT RADAR LAB
020 890301-11A00 DESCRIPTION PRINTED
030 890301-34A00 * SOURCE CARDS
040 ABSTRACT A PROGRAM THAT INITIALIZES THE OPERATION OF A MODIFIED VERSION OF 160SYS TO PROVIDE: 1. A SELECTIVE
050 TRACE OF UP TO 10 LABELS AS SPECIFIED BY THE OPERATOR AT RUN TIME. 2. A TRACE OF NO LABELS. 3. A TRACE
060 OF ALL LABELS.
070 COMMENTS USED BY PROGRAM PACKAGE (160SYS,SELTRA,ALLTRA,NOTRA)

B3890302 000 AA 9-SERIES SELECTIVE LABEL TRACE, 160SYS P UM
010 AUTHOR E. A. SEAMAN - PRINCE ALBERT RADAR LAB
020 890302-11A00 DESCRIPTION PRINTED
030 890302-34A00 * SOURCE CARDS
040 ABSTRACT A MODIFICATION OF THE STANDARD XDS VERSION OF 160SYS PLUS THREE ASSOCIATED ROUTINES TO PROVIDE A
050 SELECTIVE TRACE OF STATEMENT LABELS IN A FORTRAN PROGRAM.
060 COMMENTS REQUIRES SUBROUTINE TRACE.

B3890303 000 AA 9-SERIES INSPECTION/CORRECTION BY TYPEWRITER P UM

010 AUTHOR D. DUNN, S. SKLAR
 020 890303-11A00 DESCRIPTION PRINTED
 030 ABSTRACT THE PROGRAM ALLOWS INSPECTION AND/OR CORRECTIONS OF MEMORY LOCATIONS BASED ON TYPEWRITER INPUT.

B3890304 000 AA 9-SERIES FORTRAN MEMORY SAVE ON MAG TAPE P UM
 010 AUTHOR DR. K. DAWSON - UNIV. OF ALBERTA
 020 890304-11A00 DESCRIPTION PRINTED
 030 ABSTRACT DUMP FORTRAN L OR REAL TIME FORTRAN MEMORY ON A MAG TAPE WITH OPTIONS FOR DUMPING COMMON AND RUN TIME.
 040 COMMENTS SEPARATE TAPES ARE PROVIDED FOR FORTRAN L AND REAL TIME FORTRAN

B3890305 000 AA 9-SERIES B>SORT-BUSINESS LANGUAGE SORT ROUTINE P UM
 010 AUTHOR L.R. BRENTON - DOUGLAS SPACE CENTER
 020 890305-11A00 DESCRIPTION PRINTED
 030 ABSTRACT XDS B>SORT WAS MODIFIED TO PRESERVE THE ORIGINAL SORT SEQUENCE, THUS PROVIDING FOR MORE THAN ONE LEVEL
 040 OF SORTING, I.E. MAJOR, INTERMEDIATE, MINOR.

B3890306 000 AA 9-SERIES FORTRAN CARD READ SUBROUTINE (216 SYS) P UM
 010 AUTHOR B.E. ANDREWS
 020 890306-11A00 DESCRIPTION PRINTED
 030 890306-34A00 * SOURCE CARDS
 040 ABSTRACT UPON READING A CARD CONTAINING A ↑ IN THE FIRST COLUMN, PROGRAM CONTROL IS RETURNED TO MONAROP.
 050 COMMENTS REVISION OF XDS 216 SYS

B3890307 000 AA 9-SERIES MUSIC BOX P UM
 010 AUTHOR E.A. SEAMAN - PRINCE ALBERT RADAR LAB
 020 890307-11A00 DESCRIPTION PRINTED
 030 ABSTRACT A DEMONSTRATION PROGRAM WHICH ENABLES THE COMPUTER TO READ MUSIC IN CODED FORM FROM PUNCHED TAPE AND
 040 THEN TO PLAY IT.
 050 COMMENTS REQUIRES SOME HARDWARE MODIFICATION.

B3890308 000 AA 9-SERIES FORTRAN LABEL TRACE POP (160 SYS) P UM
 010 AUTHOR B.E. ANDREWS
 020 890308-11A00 DESCRIPTION PRINTED
 030 890308-34A00 * SOURCE CARDS
 040 ABSTRACT THIS PROGRAM IS USED TO GIVE A CONDITIONAL LABEL TRACE OF A FORTRAN PROGRAM AND PACKS THE LABELS AT
 050 20/LINE.
 060 COMMENTS REVISION OF XDS 160 SYS POP.

B3890309 000 AA 9-SERIES TIC-TAC-TOE ROUTINE P UM

010 AUTHOR A. SEAMAN - PRINCE ALBERT RADAR LAB
 020 890309-11A00 DESCRIPTION PRINTED
 030 ABSTRACT A DEMONSTRATION PROGRAM FOR PLAYING TIC-TAC-TOE WITH THE COMPUTER.

B3890310 000 AA 9300 FORTRAN EXTENDER LIB.-BIT HANDLING & I/O P UM
 010 AUTHOR UNIVERSITY OF DELAWARE
 020 890310-11A00 DESCRIPTION PRINTED
 030 890310-44A00 * COMPRESSED CARDS
 040 ABSTRACT THIS PACKAGE OF LIBRARY ROUTINES PROVIDE ADDITIONAL CAPABILITY TO THE FORTRAN USER. THEY INCLUDE CHARACT
 050 ER MANIPULATION, BIT MANIPULATION, INPUT/OUTPUT, AND TIMING.

~~B3890312~~ 000 AA SIGMA 5/7 FOCAL, FORTRAN-CALCULATOR, DESK CALC, P UC
 010 AUTHOR J.D. LARSON, BROOKHAVEN NATIONAL LABORATORIES
 020 890312-11A00 DESCRIPTION PRINTED
 030 890312-34A00 * SOURCE CARDS
 040 890312-51A00 890312-11 LISTING PRINTED
 050 ABSTRACT PERFORMS ARITHMETIC COMPUTATIONS USING FORTRAN STATEMENTS ENTERED DIRECTLY FROM A KEYBOARD DEVICE. IN
 060 ADDITION, FOCAL ASSIMULATES AND STORES CONTROL, BRANCHING, AND ARITHMETIC

B3890313 000 AB 9-SERIES FAST FOURIER TRANSFORM--FCURT P UM
 010 AUTHOR N. BRENNER, MIT DEPARTMENT OF GEOPHYSICS
 020 890313-11A00 DESCRIPTION PRINTED
 030 890313-34A01 * SOURCE CARDS
 040 ABSTRACT SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS ARBITRARY. RUNNING
 050 TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .

B3890314 000 AA 9-SERIES FAST FOURIER TRANSFORM--FCURG P UM
 010 AUTHOR NORMAN BRENNER MIT DEPARTMENT OF GEOPHYSICS
 020 890314-11A00 DESCRIPTION PRINTED
 030 890314-34A00 * SOURCE CARDS
 040 ABSTRACT VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY WHOSE LENGTH IS ARBITRARY. RUNNING TIME
 050 IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .

B3890315 000 AB 9-SERIES FAST FOURIER TRANSFORM--FCUR2 P UM
 010 ALTHOR NORMAN BRENNER - MIT
 020 890315-11B00 DESCRIPTION PRINTED
 030 890315-34B00 * SOURCE CARDS
 040 ABSTRACT SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY I N CORE WHOSE LENGTH IS A POWER OF TWO.
 050 RUNNING TIME IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT

060 N**2.

B3890316 000 AA 9-SERIES FAST FOURIER TRANSFORM--FCUR1 P UM
010 AUTHOR NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
020 890316-11A00 DESCRIPTION PRINTED
030 890316-34A00 * SOURCE CARDS
040 ABSTRACT VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY IN CORE WHOSE LENGTH IS A POWER OF TWO,
050 RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .

B3890317 000 AA 9-SERIES FAST FOURIER TRANSFORM--FCR2D P UM
010 AUTHOR NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
020 890317-11A00 DESCRIPTION PRINTED
030 890317-34A00 * SOURCE CARDS
040 ABSTRACT SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX ARRAY ON DISK OR DRUM WHOSE LENGTH IS A POWER OF TWO,
050 RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .

B3890318 000 AA 900-SERIES CIRCUIT DESIGN ANALYSIS - CIRC-AC P UM
010 AUTHOR XEROX
020 890318-11A00 DESCRIPTION PRINTED
030 890318-24A00 RELOCATABLE BINARY CARDS
040 890318-34A00 * SOURCE CARDS
050 890318-35A00 * SOURCE MAG TAPE, 7 CHANNELS
060 901651 CIRC-AC USERS MANUAL-900 SERIES CIRC AC
070 ABSTRACT A GENERAL PURPOSE PACKAGE FOR CIRCUIT DESIGN ANALYSIS. CIRC-AC ALLOWS QUICK AND ACCURATE ANALYSIS OF THE
080 AC (SMALL SIGNAL, SINUSOIDAL DRIVE) PERFORMANCE OF CIRCUITS CONTAINING MANY PASSIVE OR ACTIVE COMPONENTS.
090 CIRC-AC HAS A STORED MODEL FOR TRANSISTORS THAT IMPLEMENTS TWO POLE CURRENT DEPENDENCE UPON FREQUENCY.
100 CIRC-AC DOES NOMINAL SOLUTIONS, FREQUENCY ITERATION SOLUTIONS, AND AUTOMATIC OPEN LOOP SOLUTIONS. CIRC-
110 AC HANDLES LARGE CIRCUITS (OVER 50 MODES) AND PLOTS PERFORMANCE CURVES ON THE LINE-PRINTER. CIRC-AC HAS
120 DEPENDENT CURRENT SOURCE MODELS AND VOLTAGE SOURCE MODELS AND EASILY IMPLEMENTS Y AND H EQUIVALENT
130 CIRCUITS.
140 COMMENTS CIRC-AC IS A FORTRAN + SYMBOL PROGRAM THAT OPERATES AS A LINKED PROGRAM. CIRC WORKS EFFECTIVELY ON A 16K
150 MEMORY MACHINE (ASSUMED IN THE RELEASE). A SMALL VERSION CAN OPERATE ON 12K. FOUR MAG TAPES ARE IDEAL,
160 THREE MAG TAPES ARE GOOD, AND TWO MAG TAPES COULD SUPPORT A MEAK VERSION WITH ANKWARD OR NO PLOTTING. A
170 CARD READER AND LINE PRINTER ARE IDEAL. CIRC-AC OPERATES ON ANY 900-SERIES COMPUTER.

130 COMMENTS PROGRAM TYPE:PROCESSOR LANGUAGE:BASIC FIV SYSTEM:RBM STORAGE:16K MIN SYSTEM DOC.PAGES:104

B3890329 000 AA 900-SERIES SEMILOG PLOTTING ROUTINES P UM
010 AUTHOR BRETT VALIQUET - MOTOROLA INC.
020 890329-11A00 DESCRIPTION PRINTED
030 890329-34A00 * SOURCE CARDS
040 890329-51A00 890329-11 LISTING PRINTED
050 ABSTRACT SEMIMULT-DRAWS A LINEAR Y-AXIS AND LOGARITHMIC X-AXIS AND PLOTS UP TO 8 CURVES ON THE SAME GRAPH.
060 SEMIAXI - DRAWS A LINEAR Y-AXIS AND A LOGARITHMIC X-AXIS, REPLOTZ - THIS SUBROUTINE PLOTS UP TO 10
070 CURVES ON THE AXES PREVIOUSLY DRAWN BY SEMIAXI.

B3890330 000 AA 900-SERIES PLOT '8 VECTOR' PLOTTING PACKAGE P UM
010 AUTHOR MOTOROLA INC.
020 890330-11A00 DESCRIPTION PRINTED
030 890330-34A00 * SOURCE CARDS
040 890330-51A00 890330-11 LISTING PRINTED
050 ABSTRACT USED FOR TAPE WRITING FOR OFF LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PACKAGE FOR 8 VECTOR PLOTS
060 COMMENTS LANGUAGE:SYMBOL ADDITIONAL INFORMATION:INCLUDES SUBROUTINES: PLOTS,WHERE, FACTOR, OFFSET, CLRPLT,
070 EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.

B3890331 000 AA 900-SERIES PLOT (24 VECTOR) PLOTTING PACKAGE P UM
010 AUTHOR MOTOROLA INC.
020 890331-11A00 DESCRIPTION PRINTED
030 890331-34A00 * SOURCE CARDS
040 890331-51A00 890331-11 LISTING PRINTED
050 ABSTRACT USED FOR TAPE WRITING FOR OFF-LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PLOTTING PACKAGE FOR 24 VECTOR
060 PLOTS.
070 COMMENTS PROGRAM TYPE: PACKAGE LANGUAGE:SYMBOL SYSTEM:MONARCH. ADDITIONAL INFORMATION:INCLUDES SUBROUTINES
080 PLOT, PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.

B3890332 000 AA 900-SERIES WORD/BIT ORIENTED FUNCTION & SUBROUTINE P UM
010 AUTHOR JOHN DOLS, MOTOROLA, INC.
020 890332-11A00 DESCRIPTION PRINTED
030 890332-34A00 * SOURCE CARDS
040 890332-51A00 890332-11 LISTING PRINTED
050 ABSTRACT WORD ORIENTED FUNCTIONS AND SUBROUTINES SUBROUTINE FORM WHICH CALLS FUNCTION MULT, FUNCTION IPART, AND
060 FUNCTION IPARTA, ALLOWS MULTIPLE VARIABLE STORAGE IN INTEGER WORD FORMAT. THE BIT CONFIGURATION TO BE
070 USED BY THE VARIABLES MUST BE SPECIFIED
080 BIT ORIENTED FUNCTIONS AND SUBROUTINES, FUNCTION AIF, SUBROUTINES EXC, FILL, MUW, AND MUT ALL ARE CALLED

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090 USING SEQUENCE: NAME (ARG1,ARG2,ARG3)
100 COMMENTS PROGRAM TYPE:PACKAGE LANGUAGE:FORT/SYMB SYSTEM:MONARCH

B3890333 000 AA 900-SERIES SUBROUTINE SLZDEL P UM
010 AUTHOR J. HERRELL - MOTOROLA
020 890333-11A00 DESCRIPTION PRINTED
030 890333-34A00 * SOURCE CARDS
040 890333-51A00 890333-11 LISTING PRINTED
050 ABSTRACT THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS COMPLEX EQUATIONS.
060 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH

B3890334 000 AA 900-SERIES NCPRI, READ AND REREAD PACKAGE (IO) P UM
010 AUTHOR JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
020 890334-11A00 DESCRIPTION PRINTED
030 890334-34A00 * SOURCE CARDS
040 890334-51A00 890334-11 LISTING PRINTED
050 ABSTRACT THE NCPRI, READ, AND REREAD PACKAGE ALLOWS MANIPULATION AND ING THE PREVIOUS DATA TO BE MANIPULATED.
060 (AS IN 'DECODE'). NCPRI INHIBITS THE NEXT PRINT STATEMENT, ALLOWING REFORMATTING (AS IN 'ENCODE').
070 STATEMENT, ALLOWING REFORMATSUBROUTINE READ UTILIZES INTERLACE DURING I/O, ALLOWING COMPUTATION
080 DURING I/O.
090 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:56WORDS DOC. PAGES:13 DATE:11/26/69

B3890335 000 AA 900-SERIES FORTRAN READ AND WRITE TAPE ROUTINES, P UM
010 AUTHOR JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
020 890335-11A00 DESCRIPTION PRINTED
030 890335-34A00 * SOURCE CARDS
040 890335-51A00 890335-11 LISTING PRINTED
050 ABSTRACT ALLOW FORTRAN TO READ OR WRITE RECORD BLOCKS OF ANY LENGTH IN BCD OR BINARY ON MAGNETIC TAPE.
060 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE: DOC.PAGES:12 DATE:11/26/69

B3890336 000 AA 900-SERIES SCRT-MODIFIED SHELL MERGE-EXCHANGE P UM
010 AUTHOR JOHN DOLS - MOTOROLA
020 890336-11A00 DESCRIPTION PRINTED
030 890336-34A00 * SOURCE CARDS
040 890336-51A00 890336-11 LISTING PRINTED
050 ABSTRACT PERFORMS DESCENDING OR ASCENDING SORTS ON BCD, INTEGER, OR REAL ARRAYS. PROGRAM TYPE:FORT SUB LANG:
060 SYMBOL SYSTEM:MONARCH STORAGE:202 DOC.PAGES:12 DATE:11/26/69.

B3890337 000 AA 900-SERIES PACKING AND UNPACKING OF FLOATING POINT P UM

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010 AUTHOR BOB STEPHENS / JOHN DOLS - MOTOROLA
 020 890337-11A00 DESCRIPTION PRINTED
 030 890337-34A00 * SOURCE CARDS
 040 890337-51A00 890337-11 LISTING PRINTED
 050 ABSTRACT A CONVERSION MEDIA BETWEEN DOUBLE AND SINGLE PRECISION FLOATING POINT NUMBERS - CONSERVES STORAGE.
 060 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:24 DOC,PAGES:3 DATE:11/26/69

B3890338 000 AA 900-SERIES END-OF-FILE TEST P UM
 010 AUTHOR JOHN DOLS - MOTOROLA INC.
 020 890338-11A00 DESCRIPTION PRINTED
 030 890338-34A00 * SOURCE CARDS
 040 890338-51A00 890338-11 LISTING PRINTED
 050 ABSTRACT TESTS FOR END-OF-FILE ON TAPE WRITTEN IN EITHER MODE AND BRANCHES TO SOME SPECIFIED STATEMENT WHEN EOF
 060 FOUND:
 070 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTRAN SYSTEM:MONARCH STORAGE:21 DOC,PAGES:2 DATE:11/26/69

B3890339 000 AA 900-SERIES END-OF-PAGE TEST ROUTINE P UM
 010 AUTHOR BOB STEPHENS / JOHN DOLS - MOTOROLA
 020 890339-11A00 DESCRIPTION PRINTED
 030 890339-34A00 * SOURCE CARDS
 040 890339-51A00 890339-11 LISTING PRINTED
 050 ABSTRACT TESTS LOCATION OF PRINTER TO DETERMINE IF PRINTER IS READY TO GO TO A NEW PAGE
 060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:9 DOC,PAGES:2 DATE:11/26/69.

B3890340 000 AA 900-SERIES MAGNETIC TAPE POSITIONING ROUTINES P UM
 010 AUTHOR BOB STEPHENS - MOTOROLA INC.
 020 890340-11A00 DESCRIPTION PRINTED
 030 890340-34A00 * SOURCE CARDS
 040 890340-51A00 890340-11 LISTING PRINTED
 050 ABSTRACT FORTRAN SUBROUTINES ALLOWING THE USER TO SKIP A SPECIFIED NUMBER OF FILES OR RECORDS EITHER FORWARD OR
 060 BACKWARD
 070 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH STORAGE:126 DOC, PAGES:6 DATE:11/26/69

B3890341 000 AA 900-SERIES COUNT FILES/RECORDS ON MAGNETIC TAPE P UM
 010 AUTHOR BOB STEPHENS - MOTOROLA INC.
 020 890341-11A00 DESCRIPTION PRINTED
 030 890341-34A00 * SOURCE CARDS
 040 890341-51A00 890341-11 LISTING PRINTED
 050 ABSTRACT ALLOWS THE USER TO COUNT THE RECURDS IN A FILE, OR THE FILES ON A MAGNETIC TAPE.

060 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:SYMBCL SYSTEM: STORAGE:85 DOC,PAGES:4 DATE:11/26/69

B3890342 000 AA 900-SERIES TAPE LABEL AND POSITIONING P UM
010 AUTHOR BOB STEPHENS - MOTOROLA INC.
020 890342-11A00 DESCRIPTION PRINTED
030 890342-34A00 * SOURCE CARDS
040 890342-51A00 890342-11 LISTING PRINTED
050 ABSTRACT SUBROUTINES CONSTRUCT AND RECOGNIZE LEVEL 1 MONARCH LABELS.
060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:28 WORDS DOC,PAGES:7 DATE:11/26/69

B3890343 000 AA 900-SERIES ERROR P UM
010 AUTHOR JOHN DOLS - MOTOROLA INC.
020 890343-11A00 DESCRIPTION PRINTED
030 890343-34A00 * SOURCE CARDS
040 890343-51A00 890343-11 LISTING PRINTED
050 ABSTRACT A FORTRAN SUBROUTINE WHICH ALLOWS PROGRAMMED INTERVENTION ON ANY FORTRAN II RUNTIME ERROR NORMALLY CAUS-
060 ING AN ERROR NOTIFICATION.
070 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:71WORDS DOC,PAGES:6 DATE:11/26/69

B3890344 000 AA 900-SERIES PLOTTER SUBROUTING BLOWUP P UM
010 AUTHOR RON KULE - MOTOROLA INC.
020 890344-11A00 DESCRIPTION PRINTED
030 890344-34A00 * SOURCE CARDS
040 890344-51A00 890344-11 LISTING PRINTED
050 ABSTRACT ENLARGES A PORTION OF A CURVE THAT IS DIFFICULT TO READ WHEN PLOTTED BY 'CALPLOT' (CAT NO 890350)
060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTAN II SYSTEM:MONARCH DOC. PAGES:4 DATE:11/26/69
070 ADDITIONAL INFORMATION: REQUIRES CALPLOT -890350

B3890345 000 AA 900-SERIES HISTPRINT AND HISTPLOT P UM
010 AUTHOR MOTOROLA, INC.
020 890345-11A00 DESCRIPTION PRINTED
030 890345-34A00 * SOURCE CARDS
040 890345-51A00 890345-11 LISTING PRINTED
050 ABSTRACT PROCESS RAN DATA INTO HISTOGRAM REPRESENTATIONS OF FREQUENCY VERSUS INTERVAL ACCORDING TO SPECIFICATION,
060 HISTPRINT OUTPUTS ON THE LINE PRINTER WHILE HISTPLOT OUTPUTS ON THE CALCOMP PLOTTER. PLOTTING REQUIRES
070 THREE TIMES AS MUCH COMPUTER TIME AS PRINTING.
080 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTAN II SYSTEM:MONARCH DOC,PAGES:12 DATE:11/26/69.
090 REQUIRES PLOT-CAT NO 890330 SYMBOL CALCOMP SCOOP PACKAGE SORT 890336

B3890346 000 AA 900-SERIES PLOTTER ROUTINE FOR ON-LINE PRINTER P UM
 010 AUTHOR JOHN DOLS - MOTOROLA INC.
 020 890346-11A00 DESCRIPTION PRINTED
 030 890346-34A00 * SOURCE CARDS
 040 890346-51A00 890346-11 LISTING PRINTED
 050 ABSTRACT WILL PLOT ONE OR TWO CURVES ON LINE-PRINTER USING 8-1/2" X 11" PAPER. IT LABELS ALL AXES AND PRINTS A
 060 TITLE.
 070 COMMENTS PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:9 DATE:11/26/69

B3890347 000 AA 900-SERIES PROBABILITY FUNCTIONS - ERFF, ZGAUSSF, P P UM
 010 AUTHOR JIM HERKELL - MOTOROLA INC.
 020 890347-11A00 DESCRIPTION PRINTED
 030 890347-34A00 * SOURCE CARDS
 040 890347-51A00 890347-11 LISTING PRINTED
 050 ABSTRACT ERFF-RETURNS VALUE OF ERROR FUNCTION FOR POSITIVE VALUES OF X. PROBFUNC-RETURNS VALUE OF NORMAL
 060 PROBABILITY INTEGRAL. ZGAUSS-INVERSE OF PROBFUNC.
 070 COMMENTS PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:76,83,96 DOC.PAGES:7 DATE:11/26/69

B3890348 000 AA 900-SERIES REVERSE SEMILOG PLOTTING PACKAGE P UM
 010 AUTHOR RUN KOLE - MOTOROLA INC.
 020 890348-11A00 DESCRIPTION PRINTED
 030 890348-34A00 * SOURCE CARDS
 040 890348-51A00 890348-11 LISTING PRINTED
 050 ABSTRACT SEMIREV DRAWS THE AXES FOR A SEMILOG PLOT THAT HAS THE Y-AXIS LOGARITHMIC. THE REPLOT4 PLOTS UP TO 10
 060 CURVES ON AXES GENERATED BY SEMIREV.
 070 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:7 DATE:11/26/69
 080 ADDITIONAL INFORMATION: REQUIRES SUBROUTINES: PLOT 890330, LOGA 89035L, LOGSCALE 890353, PLUS CACCOMP
 090 ROUTINES:SCALE, CLRPLT, LINE, SYMBOL, AXIS

B3890349 000 AA 900-SERIES STATPAK-STATISTICAL PACKAGE P UM
 010 AUTHOR BRETT VALIQUET - MOTOROLA INC.
 020 890349-11A00 DESCRIPTION PRINTED
 030 890349-34A00 * SOURCE CARDS
 040 890349-51A00 890349-11 LISTING PRINTED
 050 ABSTRACT STATPAK IS A PACKAGE DESIGNED TO ANALYZE, SUMMARIZE AND STANDARDIZE RELIABILITY DATA. PROGRAMS INCLUDED:
 060 LINK 1 THRU LINK 10 NISTPRINT INPLOT
 070 COMMENTS PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN II SYSTEM:MONARCH
 080 ADDITIONAL INFORMATION:SUBROUTINES REQUIRED: AIF(890332) COMPARE, NOPRINT(890333), HISTPRINT (890345),
 090 REREAD (890334), ALOG10, LINK, NEXTLINK, SORT, INPLOT, ALOG, COS, SIN, IBCZ, CALPLOT, SEMILOG, AMIN,

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100          AMAX, ABS, FLOAT.

B3890350 000 AA 900-SERIES      GENERAL PLOTTING PACKAGE          P UM
010      AUTHOR  RON KOLE - MOTOROLA INC.
020          890350-11A00      DESCRIPTION PRINTED
030          890350-34A00 *    SOURCE CARDS
040          890350-51A00 890350-11 LISTING PRINTED
050      ABSTRACT PLOTS ONE OR TWO CURVES ON 10" X 7" AXES WITH TITLE AND AXIS LABELS.
060      COMMENTS PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:6 DATE:11/26/69
070          REQUIRES CALCOMP ROUTINES: SCALE, PLOT, AXIS, SYMBOL, LINE.

B3890351 000 AA 900-SERIES      SEMILOG PLOTTING PACKAGE          P UM
010      AUTHOR  RON KOLE - MOTOROLA INC.
020          890351-11A00      DESCRIPTION PRINTED
030          890351-34A00 *    SOURCE CARDS
040          890351-51A00 890351-11 LISTING PRINTED
050      ABSTRACT WILL PLOT ONE OR TWO CURVES ON 10' X 7' AXIS, WITH X-AXIS LOGARITHMIC.
060      COMMENTS PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:5 DATE:11/26/69
070          ADDITIONAL INFORMATION: REQUIRES PROGRAM CAT NO 890353 - LOGSCALE, 890352 - LOGAXIS PLUS CALCOMP
080          PLOTTING ROUTINES,- LOGSCALE, 890352 - LOGAXIS

B3890352 000 AA 900-SERIES      LOGAXIS PLOTTING SUBROUTINE      P UM
010      AUTHOR  R. KOLE, MOTOROLA
020          890352-11A00      DESCRIPTION PRINTED
030          890352-34A00 *    SOURCE CARDS
040          890352-51A00 890352-11 LISTING PRINTED
050      ABSTRACT DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER OF 10
060          INCREMENTS AT THE BEGINNING OF EACH DECADE.
070          PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
080          ADDITIONAL INFORMATION: 11/26/69 REQUIRES: PROGRAMS FROM CALCOMP PACKAGE - PLOT, TIC, WHERE,
090      COMMENTS SYMBOL, WHERE, NUMBER.
100          DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90 , 'TICS\ OFF THE INCREMENTS, AND WRITES THE POWER 10
110          INCREMENTS AT THE BEGINNING OF EACH DECADE.
120          PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
130          STORAGE: DOC.PAGES:4 DATE:11/26/69
140          REQUIRES: PROGRAMS FROM CALCOMP PACKAGE PLOT, TIC, WHERE, SYMBOL, WHERE, NUMBER

B3890353 000 AA 900-SERIES      PLOTTING SUBROUTINE LOGSCALE          P UM
010      AUTHOR  RON KOLE - MOTOROLA INC.

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020 890353-11A00 DESCRIPTION PRINTED
 030 890353-34A00 * SOURCE CARDS
 040 890353-51A00 890353-11 LISTING PRINTED
 050 ABSTRACT CONVERTS VALUES OF A DATA ARRAY TO LOG FORM, USED IN PLOTTING ON LOG PAPER.
 060 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69

B3890354 000 AA 900-SERIES COMPLEX ARITHMETIC FUNCTIONS P UM
 010 AUTHOR BOB STEPHENS - MOTOROLA INC.
 020 890354-11A00 DESCRIPTION PRINTED
 030 890354-34A00 * SOURCE CARDS
 040 890354-51A00 890354-11 LISTING PRINTED
 050 ABSTRACT FUNCTIONS USED FOR COMPLEX ARITHMETIC MAGNITUDE AND ANGLE; REAL AND IMAGINARY CONVERSIONS;
 060 MULTIPLICATION, DIVISION, ADDING AND SUBTRACTING.
 070 COMMENTS PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:8 DOC.PAGES:15 DATE:11/28/69

B3890355 000 AA 900-SERIES BCD CONVERSION OF NUMERIC DATA P UM
 010 AUTHOR BOB STEPHENS / JOHN DOLS - MOTOROLA
 020 890355-11A00 DESCRIPTION PRINTED
 030 890355-34A00 * SOURCE CARDS
 040 890355-51A00 890355-11 LISTING PRINTED
 050 ABSTRACT CONVERSION OF FIXED OR FLOATING POINT NUMERIC DATA TO A4 OR A8 FORMATS AS REQUIRED.
 060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:197 DOC.PAGES:10 DATE:11/26/69

B3890356 000 AA 900-SERIES ERASE MAGNETIC TAPE IN FORTRAN P UM
 010 AUTHOR BOB STEPHENS - MOTOROLA INC.
 020 890356-11A00 DESCRIPTION PRINTED
 030 890356-34A00 * SOURCE CARDS
 040 890356-51A00 890356-11 LISTING PRINTED
 050 ABSTRACT SUBROUTINES USED TO ERASE MAGNETIC TAPE TO A SPECIFIED LENGTH.
 060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:133 DOC.PAGES:5 DATE:11/26/69

~~B3890363~~ 000 AE SIGMA 5-9 SOL-SIMULATION-ORIENTED LANGUAGE P UC
 010 AUTHOR R.B. COOK, G.J. HANSEN, G.E. HAYNAM - VANDERBILT UNIVERSITY
 020 890363-11E00 DESCRIPTION PRINTED
 030 890363-26E00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
 040 ABSTRACT SOL IS A GENERAL PURPOSE LANGUAGE PROCESSOR USEFUL FOR DESCRIBING AND SIMULATING COMPLEX SYSTEMS.
 050 INCLUDED ARE CAPABILITIES FOR EXPRESSING PARALLEL COMPUTATION, NOTATIONS FOR EMBEDDING RANDOM QUANTITIES
 060 WITHIN ARITHMETIC EXPRESSIONS AND AUTOMATIC MEANS FOR GATHERING STATISTICS ABOUT THE ELEMENTS INVOLVED.
 070 SOL IS CAPABLE OF DESCRIBING MODELS WITHOUT INCLUDING COMPUTER-ORIENTED CHARACTERISTICS.

080 NECESSARY TO FORM THE SOL COMPILER, DCBS AND LIBRARIES IS ELEMENT (=26).
090 COMMENTS PROGRAM TYPE:PROCESSOR LANGUAGE:METASYMBOL SYSTEM:BPM/BTM/CP=V STORAGE: DOCU,PAGES:26

~~B3890366~~

000 AB SIGMA 5/7 LISP 1.5-LANGUAGE FOR LIST PROCESSING P UC
010 AUTHOR G. ROBERTSON, VANDERBILT UNIVERSITY
020 890366-11800 DESCRIPTION PRINTED
030 890366-26800 890366-46 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
040 890366-46800 * COMPRESSED MAG TAPE, 9 CHANNELS
050 890366-86800 890366-46 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
060 ABSTRACT LISP 1.5 IS A PROGRAMMING LANGUAGE SUITABLE FOR LIST PROCESSING BASED ON LISP-A MATHEMATICAL LANGUAGE
070 DESIGNED FOR MEANINGFUL MANIPULATION OF LIST STRUCTURES. THE EXTENSIONS WHICH HAVE BEEN MADE, MAKE IT A
080 PROGRAMMING LANGUAGE, ALSO 1.5 IS AN INTERPRETIVE SYSTEM, THERE ARE NO RESTRICTIONS IN THIS VERSION,
090 THE PRIMARY USE HAS BEEN IN THE FIELD OF ARTIFICIAL INTELLIGENCE RESEARCH. IT IS USED FOR SYMBOLIC
100 CALCULATIONS IN CALCULUS, MATHEMATICAL LOGIC, GAME PLAYING, AND OTHER FIELDS. THE LISP TAPE (=46)
110 CONTAINS THE COMPLETE COMPRESSED SOURCE, THE ENTIRE SET OF RELOCATABLE OBJECT MODULES (=26) NECESSARY TO
120 FORM THE LISP COMPILER AS WELL AS THE COMPLETE LISP BINARY SYSTEM (=86).
130 COMMENTS MEMORY REQUIREMENT FOR LISP 1.5 MAY BE ADJUSTED, UP OR DOWN, BY REASSEMBLING LISP WITH A CHANGE TO THE
140 VALUE OF LISPSYS. ELEMENT 86 PRESENT OF LISP-BIAS 4A00. NOTE: FILE 1-DIRECTORY ELEMENT 16- CONTAINS
150 DIRECTORY OF THE USES DCBROM TO GENERATE ITS DATA CONTROL BLOCKS. INCLUDED IS INTERACTIVE LISP 1.5 (14K
160 BTM LISP). ELEMENT 86 PRESENT OF LISP: BIAS 10800.

B3890377

000 AA 900-SERIES SUBROUTINE RE20EG P UM
010 AUTHOR J. HERRELL, MOTOROLA INC.
020 890377-11A00 DESCRIPTION PRINTED
030 890377-34A00 * SOURCE CARDS
040 890377-51A00 890377-11 LISTING PRINTED
050 ABSTRACT THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS EQUATIONS WITH REAL COEFFICIENTS AND 20 UNKNOWNNS.
060 COMMENTS PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
070 STORAGE: DOC.PAGES:6 DATE:12/04/69

B3890378

000 AA 900-SERIES SUBROUTINE DASHPLOT PLOTTER P UM
010 AUTHOR RON KULE - MOTOROLA INC.
020 890378-11A00 DESCRIPTION PRINTED
030 890378-34A00 * SOURCE CARDS
040 890378-51A00 890378-11 LISTING PRINTED
050 ABSTRACT DRAWS A DASHED LINE FROM LOCATION OF PEN AT THE TIME OF CALL TO THE POINT(X,Y).
060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC, PAGES:2 DATE:11/26/69.
070 REQUIRES CATALOG NUMBER 890330 PLOT

B3890379 000 AA 900-SERIES LINEAR PLOTTING PACKAGE P UM
010 AUTHOR BRETT VALIQUET - MOTOROLA INC.
020 890379-11A00 DESCRIPTION PRINTED
030 890379-34A00 * SOURCE CARDS
040 890379-51A00 890379-11 LISTING PRINTED
050 ABSTRACT PLOTS UP TO 10 CURVES ON LINEAR, LABELED AXIS, CONSISTS OF THREE SUBROUTINES-LINEAR, REPLOT 1, LINAXI,
060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC,PAGES:11 DATE:11/26/69
070 ADDITIONAL INFORMATION: REQUIRE PLOTTING PACKAGE FROM CALCOMP AND CATNO 890331 OR EQUIVALENT.

B3890380 000 AA 900-SERIES ALPHAXIS PLOTTING ROUTINE P UM
010 AUTHOR RON KULE - MOTOROLA INC.
020 890380-11A00 DESCRIPTION PRINTED
030 890380-34A00 * SOURCE CARDS
040 890380-51A00 890380-11 LISTING PRINTED
050 ABSTRACT DRAWS AXIS OF SPECIFIED LENGTH AND ANNOTE WITH LABELS INSTEAD OF NUMBERS.
060 COMMENTS PROGRAM TYPE:FORT SUB, LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC,PAGES:4 DATE:11/26/69
070 ADDITIONAL INFORMATION: USES CATALOG NO 890331 AND CALCOMP ROUTINE SYMBOL

~~B3890383~~ 000 AA SIGMA 5/7 MESSAGE WRITER FOR PRINTER OR TYPEWRITER P UC
010 AUTHOR XEROX
020 890383-11A00 DESCRIPTION PRINTED
030 890383-34A00 * SOURCE CARDS
040 ABSTRACT PRINTS ANY MESSAGE ENTERED IN LARGE LENGTHWISE LETTERS ON THE LO DEVICE. IF A LINE PRINTER IS USED THE
050 CARRIAGE CONTROL TAPE SHOULD BE REMOVED. THE MESSAGE WILL BE FORMED BY ASTERISK CHARACTERS.
060 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:SYMBOL SYSTEM:BPM STORAGE: DOC,PAGES:10 DATE:12/13/69.

B3890384 000 AA 900-SERIES FORTRAN PRECOMPILER FORT II-FORT IVH P UM
010 AUTHOR G. SAGER, HONEYWELL, INC.
020 890384-11A00 DESCRIPTION PRINTED
030 890384-34A00 * SOURCE CARDS
040 ABSTRACT THE PRECOMPILER CONVERTS FORTRAN II PROGRAMS TO BASIC FORTRAN IVH, ANNOTATES, GENERATES STATEMENTS
050 CONVERTING FORTRAN II NEGATIVE DO LOOPS TO AN EQUIVALENT POSITIVE DO, AND FLAGS IRREGULARITIES WHICH ARE
060 NOT CONVERTIBLE.
070 COMMENTS PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:7537 DOCU,PAGES:2 DATE:
080 10/10/70 THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES.

B3890525 000 AA 900-SERIES NODE OPTIMIZATION ROUTINE P UM
 010 AUTHOR D. MACNAK, MOTOROLA, INC.
 020 890525-11A00 DESCRIPTION PRINTED
 030 890525-34A00 * SOURCE CARDS
 040 890525-51A00 890525-11 LISTING PRINTED
 050 890525-74A00 DATA CARDS
 060 ABSTRACT DECREASES THE SIZE OF THE MATRIX AS GENERATED BY CIRC. THIS IS DONE RENUMBERING THE NODES AND PRINTING A
 070 CONNECTION LIST.

B3890526 000 AA 920 REAL-TIME FORTRAN RUN-TIME DEBUG P UM
 010 AUTHOR J.W. SCHWARTZENBERG, LEEDS AND NORTHRUP
 020 890526-11A00 DESCRIPTION PRINTED
 030 890526-34A00 * SOURCE CARDS
 040 890526-51A00 890526-11 LISTING PRINTED
 050 ABSTRACT A RUN-TIME DEBUG SUBROUTINE FOR USE WITH REAL-TIME FORTRAN II.

B3890527 000 AA 92 DDT-92 DEBUGGING ROUTINE P UM
 010 AUTHOR MARC OBERLY - CAMBRIDGE ELECTRON
 020 890527-11A00 DESCRIPTION PRINTED
 030 890527-34A00 * SOURCE CARDS
 040 ABSTRACT AN IN-CORE DEBUGGING PROGRAM OFFERING A COMPUTE-AND-HALT ROUTINE, DIRECT OCTAL OR SYMBOLIC I/O TO AND
 050 FROM CORE VIA TYPEWRITER, SYMBOLIC REFERENCING OF STORAGE, PAPER-TAPE SAVE OF THE LABEL TABLE AND PRO-
 060 Duction OF A SELF-FILLING, SELF-STARTING PAPER-TAPE OF THE PROGRAM IN CORE.

B3890528 000 AA 910 CONVERSATIONAL FUNCTIONAL ASSEMBLER P UM
 010 AUTHCR GERALD CAHILL, RPFTP, EDWARDS, CALIFORNIA
 020 890528-11A00 DESCRIPTION PRINTED
 030 890528-34A00 * SOURCE CARDS
 040 890528-51A00 890528-11 LISTING PRINTED
 050 ABSTRACT THIS PROGRAM WAS WRITTEN TO ALLOW ENGINEERS AND MATHEMATICANS TO USE THE XDS 910 (OR WHAT YOU) AS THEY
 060 WOULD A MEMORY TYPE OF DESK CALCULATOR WITH THE ADDITIONAL CAPABILITY OF BUILT IN FUNCTIONS AND AN IN-
 070 CREASE OF PRECISION, THIS PROGRAM ALSO SERVES TO INTRODUCE ASSEMBLY LANGUAGE PROGRAMMING TO THOSE INTER-
 080 ESTED IN GETTING CLOSER TO THE MACHINE.
 090 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:FURTRAN II STORAGE:8K DOC.PAGES:45

B3890529 000 AA 900-SERIES PRINTX-PRINTER SUBROUTINE P UM
 010 AUTHCR D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY
 020 890529-11A00 DESCRIPTION PRINTED
 030 890529-51A00 890529-11 LISTING PRINTED
 040 ABSTRACT PRINT VARIABLE LENGTH RECORDS (120 CHARACTERS MAXIMUM OUTPUT) ON 9372 UNBUFFERED LINE PRINTERFROM
 050 VARIABLE-LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE
 060 END-OF-FILES.

B3890530 000 AA 900-SERIES PUNCHX PUNCH SUBROUTINE P UM
 010 AUTHCR D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY
 020 890530-11A00 DESCRIPTION PRINTED
 030 890530-51A00 890530-11 LISTING PRINTED
 040 ABSTRACT TO PUNCH VARIABLE LENGTH (80 CHARACTERS MAXIMUM) PAPER TAPE RECORDS FROM VARIABLE LENGTH BCD MAG TAPE
 050 RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.

~~B3890531~~ 000 AA SIGMA 5/7 FILE EDITOR (METAMEDIA) P UC
 010 AUTHCR XEROX
 020 890531-11A00 DESCRIPTION PRINTED
 030 890531-24A01 RELOCATABLE BINARY CARDS
 040 890531-44A00 * COMPRESSED CARDS
 050 890531-51A00 890531-11 LISTING PRINTED
 060 ABSTRACT TO ALLOW THE USER TO PERFORM A VARIETY OF FILE-EDITING TASKS CONVERTING DATA TYPES OF SOURCE, COMPRESSED
 070 AND BINARY. IT ALLOWS BLOCKING AND DEBLOCKING, COMPRESSION AND DECOMPRESSION, UPDATING BY FILE, RECORD,
 080 AND/OR CONTENT OF RECORDS, AND VERIFICATION OF COPIES.
 090 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:META-SYMBOL SYSTEM:BCM
 100 STORAGE:3800 WORDS DOC.PAGES:89 DATE:11/26/69
 110 ADDITIONAL INFORMATION:THIS PROGRAM WILL RUN UNDER BCM, RBM2 AND BPM.

~~B3890532~~ 000 AA SIGMA 5/7 JANUS TIMESHARING SYSTEM P UC
010 AUTHOR MICHIGAN STATE
020 890532-11A00 DESCRIPTION PRINTED
030 890532-36A00 SOURCE MAG TAPE, 9 CHANNELS
040 890532-86A00 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
050 ABSTRACT JANUS IS A TIMESHARED OPERATING SYSTEM, PERMITS SIMULTANEOUS EXECUTION OF TASKS, INVOKED BY THE OPERATOR
060 FROM A LIBRARY OF TASKS ON THE DISC, TASKS CONSIST OF JBCM (JANUS BASIC CONTROL MONITOR), JFCM (JANUS
070 FILE CONTROL MONITOR), AND JPCM (JANUS PROCESS CONTROL MONITOR).
080 COMMENTS PROGRAM TYPE:SYSTEM LANGUAGE:SYMBOL* SYSTEM:BPM DOCU,PAGES:36 DATE:12/29/69, ADDITIONAL
090 INFORMATION:*JANUS MUST BE ASSEMBLED USING MODIFIED SYMBOL FILE 5 JANUS SOURCE MAG. TAPE, THIS IS DUE TO
100 THE IMPL. OF THE LIST/NOLIST OPTIONS IN JANUS SYMBOL AND THE USE OF THEM IN THE JANUS SOURCE ELEMENTS.

B3890538 000 AA 92 TABLCON P UM
010 AUTHOR MARC OBERLY - CAMBRIDGE ELETRON
020 890538-11A00 DESCRIPTION PRINTED
030 890538-34A00 * SOURCE CARDS
040 ABSTRACT A PROGRAM FOR CONVERTING THE PUNCHED MEMORY MAP FROM *GUBLDR-DD* TO A PUNCHED SYMBOL TABLE ACCEPTABLE
050 FOR READING INTO *DDT-92*. IT WILL ADDITIONALLY LIST THE MAP ON THE CONSOLE TYPEWRITER IN BOTH ALPHABET-
060 IC AND ADDRESS VALUE SEQUENCE FLAGGING ANY UNDEFINED REF ITEMS FOUND DURING READ-IN OF THE MAP.
070 COMMENTS LANGUAGE: SYMBOL STORAGE: 017341

B3890539 000 AA 92 GUBLDR DD=OPT PUNCH FOR INPUT TABLCON P UM
010 AUTHOR MARC OBERLY - CAMBRIDGE ELECTRON
020 890539-11A00 DESCRIPTION PRINTED
030 890539-34A00 * SOURCE CARDS
040 ABSTRACT A MODIFIED VERSION OF GUBLDR (XDS PROGRAM NO. 720004) OFFERING: OPTIONAL PUNCHING OF THE MAP FOR INPUT
050 TO THE PROGRAM *TABLCON*, NO LOADING OF PROGRAMS FROM CARDS, THE AUTOMATIC INITIALIZATION OF SCRATCHPAD
060 FOR ITSELF AFTER FILLING OR USER CALL.
070 COMMENTS LANGUAGE: SYMBOL STORAGE:00844

B3890540 000 AA 930 MONARCH SYSTEM UPDATE P UM
010 AUTHOR SALLY BRECKENRIDGE UNIV. OF MICHIGAN
020 890540-11A00 DESCRIPTION PRINTED
030 890540-24A00 RELOCATABLE BINARY CARDS
040 890540-34A00 * SOURCE CARDS
050 890540-51A00 890540-11 LISTING PRINTED
060 ABSTRACT UPDATE (850032) AND BOOTSTRAP (890031) COMPRISE THE SYSTEM UPDATE PROGRAM TO CREATE NEW MONARCH SYSTEM T
070 APES AND TO UPDATE EXISTING SYSTEM TAPES, UPDATED FROM A PROGRAM DEVELOPED BY BARRY MACRAE.

B3890541 000 AA 930 A GENERAL MAG TAPE ROUTINE P UM
010 AUTHOR SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
020 890541-11A00 DESCRIPTION PRINTED
030 890541-24A00 RELOCATABLE BINARY CARDS
040 890541-34A00 * SOURCE CARDS
050 890541-51A00 890542-11 LISTING PRINTED
060 ABSTRACT A GENERAL EASY-TO-USE MAGNETIC TAPE ROUTINE FOR THE 930, DEVELOPED FROM A PROGRAM BY DONALD WYCHE.

B3890542 000 AA 930 EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE P UM
010 AUTHOR SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
020 890542-11A00 DESCRIPTION PRINTED
030 890542-24A00 RELOCATABLE BINARY CARDS
040 890542-34A00 * SOURCE CARDS
050 890542-51A00 890542-11 LISTING PRINTED
060 ABSTRACT PROVIDES A METHOD FOR UPDATING SOURCE PROGRAMS ON MAGNETIC TAPE, UPDATED FROM A PROGRAM DEVELOPED BY
070 DONALD WYCHE AND BARRY MACKAE.

~~B3890543~~ 000 AA SIGMA 5/7 TIC TAC TOE -3D P UC
010 AUTHOR XEROX
020 890543-11A00 DESCRIPTION PRINTED
030 890543-33A00 * SOURCE PAPER TAPE, 8 LEVELS
040 890543-34A00 * SOURCE CARDS
050 890543-51A00 890543-11 LISTING PRINTED
060 ABSTRACT THE PROGRAM PLAYS 3-D TIC TAC TOE WITH A HUMAN OPPONENT. IT WILL OPERATE UNDER ANY SYSTEM SUPPORTING
070 FORTRAN IVH, INCLUDING BTM.
080 COMMENTS PROGRAM TYPE:GAME LANGUAGE:FORTRAN IV SYSTEM:BCM,RBM,BTM DOCU,PAGES:10 DATE:01/23/70 ADDITIONAL
090 INFORMATION:MODIFIED FROM 1620 PROGRAM.

~~B3890544~~ 000 AA SIGMA 5/7 UTILITY PACKAGE 'HELP' P UC
010 AUTHOR XEROX
020 890544-11A00 DESCRIPTION PRINTED
030 890544-24A00 RELOCATABLE BINARY CARDS
040 ABSTRACT PROVIDES AN EASILY EXPANDED COLLECTION OF UTILITY ROUTINES, SHARING A COMMON EXECUTIVE ROUTINE AND MANY
050 SUBROUTINES. THE ROUTINES INCLUDED IN THE BASIC PACKAGE ARE DESIGNED TO FACILITATE THE PREPARATION,
060 LOADING, DEBUGGING AND DUMPING OF MACHINE LANGUAGE PROGRAMS. THIS IS A STAND-ALONE PACKAGE.

~~B3890545~~ 000 AB SIGMA 5-9 FORTRAN CROSS REFERENCE PROGRAM P UC
010 AUTHOR P. SHERROD, VANDERBILT UNIVERSITY
020 890545-11C00 DESCRIPTION PRINTED

030 890545-44C00 * COMPRESSED CARDS
 040 ABSTRACT CROSS IS A UTILITY PROCESSOR WHICH WILL PRODUCE A CROSS REFERENCE LISTING OF A FORTRAN SOURCE PROGRAM,
 050 ALL VARIABLES AND STATEMENT NUMBERS ARE LISTED IN ALPHA-NUMERIC ORDER WITH THE NUMBERS OF THE LINES ON
 060 WHICH THEY APPEAR. THE MAIN PROGRAM AND ANY SUBPROGRAMS ARE CROSS REFERENCED SEPARATELY. CROSS WILL
 070 ACCEPT THE EXTENDED FORTRAN LANGUAGE WHICH IS LEGAL TO XEROX EXTENDED FORTRAN-IV.
 080 COMMENTS THIS PROGRAM WILL RUN UNDER BPM/BTM AND UTS OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY.
 090 BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN META-SYMBOL.
 100 THE B00 VERSION OF THIS PROGRAM CORRECTS A NUMBER OF BUGS WHICH CAUSED THE FIRST VERSION TO MISS SYMBOLS
 110 IN THE SOURCE PROGRAM. IT ALSO IMPLEMENTS AN OPTION WHICH ALLOWS THE CROSS REFERENCE TO BE PERFORMED
 120 WITH RESPECT TO EDIT KEYS IF THE FORTRAN SOURCE PROGRAM IS IN AN EDIT KEYED FILE. THE SIGMA 5 MUST HAVE
 130 MBS AND CVS SIMULATION.
 140 THE C00 VERSION OF CROSS CORRECTS A FEW MINOR PROBLEMS WHICH EXISTED IN THE
 150 EARLIER VERSION AND ADDS CROSS REFERENCING FOR DEFINE FILE, FIND, AND DIRECT
 160 READ/WRITE STATEMENTS.

~~B3890546~~

000 AC SIGMA 5-9 GETFILE P UC
 010 AUTHOR SHERRUD, NASHVILLE TENNESSEE - LIPFORD, XEROX
 020 890546-11C00 DESCRIPTION PRINTED
 030 890546-44C00 * COMPRESSED CARDS
 040 ABSTRACT GETFILE IS A UTILITY PROCESSOR WHICH MAY BE USED TO MOVE GROUPS OF FILES FROM LABELED TAPE TO DISC,
 050 FROM DISC TO LABELED TAPE, OR FROM ONE LABELED TAPE TO ANOTHER LABELED TAPE.

B3890548

000 AB 930 REGEN-A BINARY TO SYMBOLIC TRANSLATOR P UM
 010 AUTHOR J.W. LAYLAND, JET PROPELLSION LABORATORY
 020 890548-11B00 DESCRIPTION PRINTED
 030 890548-24B00 RELOCATABLE BINARY CARDS
 040 890548-34B00 * SOURCE CARDS
 050 890548-44B00 * COMPRESSED CARDS
 060 ABSTRACT REGEN IS A PROGRAM FOR TRANSLATING BETWEEN THE XDS 900 SERIES UNIVERSAL BINARY LANGUAGE AND A SYMBOLIC
 070 EQUIVALANT. THE PROGRAM OPERATES UNDER A BASIC MONARCH SYSTEM WITH ONE SCRATCH TAPE AND USES THE SYSTEM
 080 INPUT/OUTPUT ASSIGNMENTS. BREAKPOINTS 3 AND 4 SELECT THE PRODUCTION OF EITHER A LIST OUTPUT OR AN
 090 ASSEMBLABLE SYMBOLIC DECK OUTPUT. EXTERNAL REFERENCE AND DEFINITION ITEMS IN THE BINARY TEXT PROVIDE
 100 NAMES AND MAKE THE REGENERATED TEXT AS CLOSE AS POSSIBLE TO THE ORIGINAL SOURCE.
 110 COMMENTS ADDITIONAL INFORMATION:NEEDS 1 SCRATCH TAPE.

~~B3890558~~

000 AB SIGMA 5/7 BUSINESS POLICY GAME P UC
 010 AUTHOR DR. R.V. COTTER, UNIV. OF NEVADA
 020 890558-11B00 DESCRIPTION PRINTED
 030 890558-36B00 * SOURCE MAG TAPE, 9 CHANNELS

~~B3890660~~ 000 AB SIGMA 5-9 CALS FOR FORTRAN USERS-MONITOR CAL1'S P UC
010 AUTHOR P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
020 890660-11B00 DESCRIPTION PRINTED
030 890660-34B00 * SOURCE CARDS
040 ABSTRACT SIGMA MONITOR FUNCTION ROUTINE FOR CAL1 FUNCTIONS, FORMS FPI'S FOR AND EXECUTES THE SPECIFIED
050 MONITOR CAL, INCLUDED ARE: CAL1,1, CAL1,2, CAL1,3, CAL1,4, CAL1,5, CAL1,6, CAL1,8, CAL1,9, CAL1,10.
060 THIS ROUTINE IS UPDATED THROUGH THE F01 VERSION OF BPM.
070 COMMENTS THIS PROGRAM WILL RUN UNDER BPM/BTM OPERATING SYSTEMS, PROGRAM TYPE IS ASSEMBLER OR UTILITY.
080 BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL,

~~B3890661~~ 000 AB SIGMA 5-9 SUBROUTINE DATETIME P UC
010 AUTHOR P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
020 890661-11B00 DESCRIPTION PRINTED
030 890661-34B00 * SOURCE CARDS
040 ABSTRACT SUBROUTINE TO GET DATE AND TIME IN FOUR CONTIGUOUS WORDS IN A4 FORMAT.
050 COMMENTS PROGRAM TYPE:SUBROUTINE LANGUAGE:META-SYMBOL DOCU,PAGES:1

~~B3890662~~ 000 AB SIGMA 5-9 PARTIAL WORD MANIPULATION OR TEST P UC
010 AUTHOR P. C. ROGERS, BROOKHAVEN NATIONAL LABORATORY
020 890662-11B00 DESCRIPTION PRINTED
030 890662-34B00 * SOURCE CARDS
040 ABSTRACT THIS PACKAGE CONTAINS FUNCTIONS AND SUBROUTINES CALLABLE FROM FORTRAN WHICH ALLOW THE USER TO: LOAD BYTE
050 (LDBYTE), LOAD HALFWORD (LDHWD), MOVE BYTES (MBYTES), TRANSLATE BYTES (TBYTES), COMPARE BYTE COUNT
060 (CBYTES), CONVERT BCD-BIN(CONVA), CONVERT BIN TO BCD (CONVS), FINDS # OF BYTES LAST TRANSFERRED THROUGH
070 DCB (RECLGT)
080 COMMENTS PROGRAM TYPE:PACKAGE LANGUAGE:META-SYMBOL SYSTEM:BPM DOCU,PAGES:4

B3890663 000 AB 920 SHORT RELOCATING LOADER FOR 920/930 P UM
010 AUTHOR A. MOFFET, CALTECH
020 890663-11A01 DESCRIPTION PRINTED
030 890663-82A00 ABSOLUTE BINARY PAPER TAPE, 7 LEVELS
040 890663-34A00 * SOURCE CARDS
050 ABSTRACT TO LOAD ABSOLUTE OR RELOCATABLE OBJECT PAPER TAPES IN STANDARD BINARY FORMAT. THIS LOADER REPLACES
060 000019 AND IS SHORTENED TO USE LOCATIONS 000 THROUGH 077 ONLY. THIS IT DOES NOT DESTROY THE FUP LINKAGE
070 TABLE AS DOES 000019. THE "STANDARD CONSTANTS" ARE OMITTED.
080 COMMENTS LANGUAGE:SYMBOL DOCU,PAGES:1

B3890664 000 AA 920 SATFIX-SATELLITE ANGLE & RANGE COMPUTE P UM

010 AUTHOR R.W. GREAVES, RAYTHEON SERVICE CO.
020 890664-11A00 DESCRIPTION PRINTED
030 890664-34A00 * SOURCE CARDS
040 ABSTRACT PROGRAM TO COMPUTE ANGLE AND RANGE OF A SATELLITE TO DIRECT A TRACKING SENSOR FOR ACQUISITION PURPOSES.
050 REQUIRES BO/BI DEVICE, FORTRAN RUNTIME AND KEYBOARD PRINTER. COMMUNICATION WITH PROGRAM IS WRITTEN TO
060 BE SELF-EXPLANATORY. PROGRAM CAN BE MODIFIED TO WRITE INFORMATION COMPUTED TO AN INPUT FILE TO BE READ
070 INTO THE SENSOR DRIVE PROGRAM
080 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:FORTHAN II STORAGE:948 DOCU,PAGES:2

~~B3890666~~

000 AA SIGMA 5/7 BTM DEMO - GAMES PROGRAMS P UC
010 AUTHOR XEROX
020 890666-11A00 DESCRIPTION PRINTED
030 890666-36A00 * SOURCE MAG TAPE, 9 CHANNELS
040 ABSTRACT THIS IS A PACKAGE OF DEMO OR GAME PROGRAMS WHICH MAY BE RUN FROM A BTM USER TERMINAL. A FEW OF THE
050 PROGRAMS ARE: CRAPS, BANDIT, BLAKJ--BLACKJACK, TICTAC--TIC-TAC-TOE.
060 COMMENTS PROGRAM TYPE:PACKAGE LANGUAGE:BASIC SYSTEM:BTM DOCU,PAGES:2 DATE:09/24/70.

~~B3890667~~

000 AC SIGMA 5-9 1620 ELECTRONIC CIRCUIT ANALYSIS PROGRAM P UC
010 AUTHOR G. WEBER, BUCKNELL UNIVERSITY
020 890667-11C00 DESCRIPTION PRINTED
030 890667-36C00 * SOURCE MAG TAPE, 9 CHANNELS
040 ABSTRACT ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF
050 ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETWORKS FROM A
060 DESCRIPTION OF THE CONNECTIONS OF THE NETWORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A
070 SELECTION OF THE TYPE OF ANALYSIS DESIRED, A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OF OUTPUT
080 DESIRED.
090 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:FORTHAN IV SYSTEM:BPM DOCU,PAGES:1

B3890668

000 AA 900-SERIES MUSIC - FOR 910/920 P UM UPDATED LAST RUN
010 AUTHOR C. KENDALL, XDS
020 890668-11A00 DESCRIPTION PRINTED
030 ABSTRACT PAPER TAPE (PLUS AN FM RECEIVER) COMBINE WITH THE 910/920 TO PRODUCE A MEDLEY OF OVER 25 SONGS. ALSO
040 ALLOWS YOU TO ADD TO REPERTOIRE.
050 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE: MACHINE SYSTEM: S/A STORAGE:2000

B3890669

000 AB 900-SERIES 360 ELECTRONIC CIRCUIT ANALYSIS (ECAP) P UM
010 AUTHOR J. HERRELL, MOTOROLA
020 890669-11B00 DESCRIPTION PRINTED
030 890669-35B00 * SOURCE MAG TAPE, 7 CHANNELS

040 890669-74800 CONTROL DECK
050 ABSTRACT ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF
060 ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETWORKS FROM A
070 DESCRIPTION OF THE CONNECTIONS OF THE NETWORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A
080 SELECTION OF THE TYPE OF ANALYSIS DESIRED, A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST ON
090 OUTPUT DESIRED.
100 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:7116 DOCU,PAGES:4
110 COMMENTS: 900 SERIES MCNARCH WITH 12K CORE.

~~B3890670~~ 000 AB SIGMA 2/3 SIGMAS=XDS SIGMA 2/3 ASSEMBLER CDC-6400 P UH
010 AUTHOR J. RENNO, AURA KITT PEAK NATIONAL OBSERVATORY
020 890670-11B00 DESCRIPTION PRINTED
030 890670-34B00 * SOURCE CARDS
040 890670-64B00 UPDATE ON CARDS
050 ABSTRACT SIGMAS IS A FORTRAN EXTENDED PROGRAM WHICH ACCEPTS AS INPUT A PROGRAM FOR AN 8K XDS SIGMA 2/3 COMPUTER.
060 SIGMAS RUNS ON THE CDC 6400 COMPUTER, PRODUCES AS OUTPUT A NON-SELF-LOADING PUNCHED PAPER TAPE BEARING
070 IN ABSOLUTE OR RELOCATABLE FORM THE PROGRAM IN BINARY SIGMA 2/3 MACHINE-CODE AND A LISTING CONTAINING
080 THE PROGRAM IN ITS ORIGINAL SYMBOLIC FORM AND ITS TRANSLATED HEXIDECIMAL REPRESENTATION.
090 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV EXT. DOCU,PAGES:42. A RIPARTITE LOADER IS PROVIDED
100 WHEREWITH THE SIGMA 2/3 PROGRAM IS LOADED FOR EXECUTION. EXTENDED FORTRAN IS REQUIRED.

~~B3890671~~ 000 AA SIGMA 2/3 RBM/3 GASP II SIMULATION PROGRAM P UH
010 AUTHOR XEROX
020 890671-11A00 DESCRIPTION PRINTED
030 890671-34A00 * SOURCE CARDS
040 ABSTRACT RBM/3 GASP II IS AN EVENT ORIENTED GENERALIZED ACTIVITY SIMULATION PROGRAM. IT IS USED FOR DISCRETE
050 SIMULATION; THE USER WRITES, IN FORTRAN, THE EVENTS TO BE SIMULATED. APPLICATIONS INCLUDE INVENTORY
060 MODELS, COMPUTER SYSTEMS AND AREAS WHERE SIMULATION IS EVENT VERSUS QUEUING ORIENTED.
070 COMMENTS PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN IV SYSTEM:RBM STORAGE:5000 DOCU,PAGES:8 DATE:09/17/70.
080 DUE TO THE LARGE STORAGE REQUIREMENTS, THE USER MAY WISH TO SEGMENT THE PROGRAMS, CALLS TO M:SEGLD VIA
090 THE SEGLD SUBROUTINE WILL NEED TO BE INSERTED IN THE SOURCE DECK AS REQUIRED.

~~B3890673~~ 000 AA SIGMA 5/7 INTERACTIVE SNOBOL4 P UC
010 AUTHCR E. SMITH, HARVARD UNIVERSITY
020 890673-11A00 DESCRIPTION PRINTED
030 890673-46A00 * COMPRESSED MAG TAPE, 9 CHANNELS
040 ABSTRACT INTERACTIVE SNOBOL4 WAS DEVELOPED FOR USE UNDER BTM, CONVERSATIONAL DEBUGGING FACILITIES INCLUDE BREAK-
050 POINTS AND DIRECT STATEMENTS. THE LANGUAGE IS A NEARLY COMPLETE SUBSET OF BELL LABS SNOBOL4, AND THE
060 SUBSYSTEM RUNS WELL IN A SMALL (18K) BTM USER AREA.

080 HANDLING TO SUPPORT HASP MULTI-LEAVING TRANSMISSION IN A MANNER IDENTICAL TO 360/20 WORKSTATION
090 PROCEDURES. THIS PROGRAM SUPPORTS SINGLE PRINTER, PUNCH AND CARD-READER DEVICE STREAMS AND UTILIZES THE
100 BINARY =SYNCHRONOUS=COMMUNICATIONS TRANSPARENT TEXT MODE.
110 ENCODE PROGRAM = PROVIDES MESSAGE COMPRESSIONS AND CONTROL CHARACTER INSERTIONS
120 FOR THE HASP SYSTEM INPUT.
130 DECODE PROGRAM = EXPANDS THE RECORDS RECEIVED FROM 360 HASP AND ROUTES THEM TO
140 THE APPROPRIATE DEVICE.
150 COMMENTS THIS PROGRAM WILL RUN UNDER BPM/BTM. PROGRAM TYPE = ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM
160 IS WRITTEN IN METASYMBOL.

~~B3890767~~

000 AA SIGMA 2/3 DISK PACK BOOTSTRAP SIMULATOR P UM
010 AUTHOR XEROX
020 890767-11A00 DESCRIPTION PRINTED
030 890767-34A00 * SOURCE CARDS
040 890767-84A00 ABSOLUTE BINARY CARDS
050 ABSTRACT A SINGLE CARD BOOTSTRAP TO RESTORE THE DISK UNIT TO THE HOME POSITION AND BOOT FROM THE DISK PACK. THIS
060 ALLEVIATES THE NEED TO POWER THE UNIT DOWN AND UP AGAIN.
070 COMMENTS THIS PROGRAM WILL RUN UNDER THE IBM OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY.
080 BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN XSYMBOL.

B3890772

000 AA 910 910 TRACE MODIFICATION P UM
010 AUTHOR T. FINERAN, CHRYSLER CORPORATION
020 890772-11A00 DESCRIPTION PRINTED
030 890772-24A00 RELOCATABLE BINARY CARDS
040 890772-44A00 * COMPRESSED CARDS
050 ABSTRACT TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL
060 TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
070 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE
080 LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

B3890773

000 AA 920 920 TRACE MODIFICATION P UM
010 AUTHOR T. FINERAN, CHRYSLER CORPORATION
020 890773-11A00 DESCRIPTION PRINTED
030 890773-24A00 RELOCATABLE BINARY CARDS
040 890773-44A00 * COMPRESSED CARDS
050 ABSTRACT TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL
060 TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
070 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE
080 LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

B3890774 000 AA 925 925 TRACE MODIFICATION P UM
010 AUTHOR T. FINERAN, CHRYSLER CORPORATION
020 890774-11A00 DESCRIPTION PRINTED
030 890774-24A00 RELOCATABLE BINARY CARDS
040 890774-44A00 * COMPRESSED CARDS
050 ABSTRACT TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL
060 TRACE. THE OUTPUT FORMAT HAS BEEN CLEARED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
070 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE
080 LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

B3890775 000 AA 930 930 TRACE MODIFICATION P UM
010 AUTHOR T. FINERAN, CHRYSLER CORPORATION
020 890775-11A00 DESCRIPTION PRINTED
030 890775-24A00 RELOCATABLE BINARY CARDS
040 890775-44A00 * COMPRESSED CARDS
050 ABSTRACT TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL
060 TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
070 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE
080 LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

B3890776 000 AA 9-SERIES FORTRAN FLOWCHARTER P UM
010 AUTHOR P. CLAAR, MCDONALD DOUGLAS
020 890776-11A00 DESCRIPTION PRINTED
030 890776-34A00 * SOURCE CARDS
040 ABSTRACT THIS PROGRAM CREATES FLOWCHARTS OF FORTRAN PROGRAMS ON THE LINE PRINTER. A MAG TAPE UNIT MUST BE
050 AVAILABLE FOR A SCRATCH TAPE DURING PROGRAM EXECUTION.
060 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE
070 LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

~~B3890778~~ 000 AA SIGMA 5-9 INTERACTIVE DMS DEBUG PACKAGE P UC
010 AUTHOR S. OHAYON, XEROX
020 890778-11A00 DESCRIPTION PRINTED
030 890778-36A00 * SOURCE MAG TAPE, 9 CHANNELS
040 890778-86A00 890778-36 ABSOLUTE BINARY MAG TAPE, 9 CHANNELS
050 ABSTRACT IDDP ALLOWS THE USER TO CALL AND EXECUTE ANY DBM ROUTINE INTERACTIVELY FROM AN ON-LINE TERMINAL BY USING
060 COMMANDS SIMILAR TO DMS PROCEDURES. IT IS ANALOGOUS TO SUCH SYSTEMS AS FORTRAN DEBUG PACKAGE ICR DELTA
070 EXCEPT THAT IT IS RUN INDEPENDENTLY; I.E. IT CAN BE USED ON ANY DMS DATABASE WITHOUT REGARD TO THE
080 USER'S PROGRAM.

060 ABSTRACT AN INTERACTIVE CROSS TABULATION PROGRAM, MINITAB, WHICH IS CAPABLE OF HANDLING FILES INVOLVING AS MANY
070 AS 48 VARIABLES. MINITAB HAS FACILITIES TO LIST, EDIT, RECODE, STORE AND RETRIEVE FILES AS WELL AS
080 FACILITIES TO PRODUCE TABLES OF BOTH COUNTS AND PERCENTAGES.
090 COMMENTS THIS PROGRAM WILL RUN UNDER UTS OPERATING SYSTEM. PROGRAM TYPE IS STATISTICAL APPLICATION. BASE
100 LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

B3890842 000 AA 9-SERIES SYSGEN 2 - 800 MONARCH P UM
010 AUTHOR XEROX
020 890842-11A00 DESCRIPTION PRINTED
030 890842-74A00 BINARY SYSGEN DECK
040 ABSTRACT THIS MODIFICATION OF SYSGEN 2 PROVIDES THE CAPABILITY OF PUTTING FORTRAN SUBROUTINES INTO THE FORTRAN
050 LIBRARY (FORTLIB).
060 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE
070 MAIN PROGRAM IS WRITTEN IN METASYMBOL.
080 THIS CHANGE IS BASED ON THE 800 VERSION OF RAD MONARCH. THE -74 CARD DECK CONTAINS BOTH THE SYSGEN 1
090 AND SYSGEN 2 BINARY DECKS AND LABEL CARDS.

B3890843 000 AB SIGMA 5-9 CONTROL CARD FILE P UC
010 AUTHOR XEROX
020 890843-11A01 DESCRIPTION PRINTED
030 890843-26A01 RELUCATABLE BINARY MAG TAPE, 9 CHANNELS
040 890843-36A01 890843-26 SOURCE MAG TAPE, 9 CHANNELS
050 890843-46A01 890843-26 COMPRESSED MAG TAPE, 9 CHANNELS
060 ABSTRACT A PROCESSOR WHICH READS CARDS, INCLUDING MONITOR CONTROL CARDS. OUTPUT CAN BE A FORMATTED PRINTER
070 LISTING AND/OR A CONSECUTIVE FILE OF CARD-IMAGES AND/OR A READY-TO-EDIT KEYED FILE. PERFORMS AUTOMATIC
080 LINE-NUMBERING, KEY GENERATION, AND CAN CONVERT ALL OR SELECTED PARTS OF THE INPUT DECK FROM FBCD TO
090 BCD. CARDS ARE PLACED IN THE READER UPSIDE DOWN AND READ IN THE BINARY MODE.
100 COMMENTS THIS PROGRAM WILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
110 PROGRAM IS WRITTEN IN METASYMBOL.

B3890850 000 AA SIGMA 5-9 UCLA BIOMEDICAL STATISTICAL PACKAGE=BMD P UC
010 AUTHOR XEROX CORPORATION
020 890850-11A00 DESCRIPTION PRINTED
030 890850-36A00 * SOURCE MAG TAPE, 9 CHANNELS
040 890850-76A00 890850-36 LOAD AND TEST FILES ON TAPE
050 ABSTRACT THE BMD PACKAGE IS A GROUP OF 63 GENERAL STATISTICAL PROGRAMS. THERE ARE SEVEN CLASSES OF PROGRAMS;
060 DESCRIPTION AND TABULATION OF DATA, MULTIVARIANT ANALYSIS, REGRESSION ANALYSIS, TIME SERIES ANALYSIS,
070 VARIANCE ANALYSIS, GUTMAN SCALE ANALYSIS, AND FACTOR ANALYSIS.
080 COMMENTS THIS PROGRAM WILL RUN UNDER ALL OPERATING SYSTEMS. PROGRAM TYPE IS STATISTICAL PROGRAMS. BASE LANGUAGE

040 890881-36A00 890881-26 SOURCE MAG TAPE, 9 CHANNELS
050 890881-76A00 890881-26 TEST CASE ON TAPE
060 ABSTRACT PROVIDES A RELATIVELY SIMPLE METHOD FOR FORTRAN PROGRAMMERS TO HANDLE ARRAYS THAT DO NOT FIT IN UTS
070 VIRTUAL CORE. A DEMAND PAGING SCHEME ATTEMPTS TO MAINTAIN IN CORE THOSE PAGES THAT ARE USED MOST
080 FREQUENTLY WHILE LESS FREQUENTLY USED PAGES ARE MAINTAINED IN A DISC FILE.
090 COMMENTS THIS PROGRAM WILL RUN UNDER BPM/BTM/UTS OPERATING SYSTEM. PROGRAM TYPE IS LIBRARY ROUTINES. BASE
100 LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

B3890882 000 AA 9300 SAM9300-SELECTIVE AUTO MONITOR PROGRAM P UM
010 AUTHOR G. KOSSUTH, DRAPER LABORATORY
020 890882-11A00 DESCRIPTION PRINTED
030 890882-44A01 * COMPRESSED CARDS
040 890882-74A01 890882-44 LOAD DECK
050 ABSTRACT SELECTED REGIONS OF CORE CAN BE TRACED AND OCTAL CORE DUMPS TAKEN PROVIDING DEBUG INFORMATION TO THE
060 METASYMBOL USER. TRACE WILL LIST EITHER OCTAL, FIXED POINT FRACTIONAL OR FLOATING POINT FORMAT.
070 COMMENTS THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE
080 LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.

B3890884 000 AA 9300 CARD READER/PUNCH DIAGNOSTIC PROGRAM P UM
010 AUTHOR C. OGREN, C.S. DRAPER LABORATORY
020 890884-11A00 DESCRIPTION PRINTED
030 890884-34A00 * SOURCE CARDS
040 890884-44A00 890884-34 COMPRESSED CARDS
050 ABSTRACT THIS PROGRAM PUNCHES A BINARY CARD DECK IN A KNOWN PATTERN (FOUR POSSIBILITIES) WHICH CAN BE READ BACK
060 AND CHECKED FOR ERRORS. THE ERRORS ON THE READ PASS ARE OUTPUT WHEN THEY OCCUR, INDICATING THE CARD
070 NUMBER, ROW, COLUMN, AND ERROR TYPE (DROPPED OR PICKED). ADDITIONALLY, THE ERRORS ARE SUMMARIZED AT THE
080 END OF THE READ PASS INDICATING THE NUMBER OF ERRORS IN EACH ROW AND EACH COLUMN. THE READER AND PUNCH
090 MAY BE OPERATED IN EITHER A CONTINUOUS OR START/STOP MODE, WITH A 250 MS DELAY BETWEEN I/O OPERATIONS.
100 COMMENTS THIS PROGRAM WILL RUN UNDER 800 TAPE MONITOR. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM
110 IS WRITTEN IN FORTRAN.

B3890885 000 AA 9300 MAGNETIC TAPE TEST PROGRAM P UM
010 AUTHOR C. OGREN & E. HARTNETT, C.S. DRAPER LABORATORY
020 890885-11A00 DESCRIPTION PRINTED
030 890885-34A00 * SOURCE CARDS
040 890885-44A00 890885-34 COMPRESSED CARDS
050 ABSTRACT THE PROGRAM PROVIDES FASTER MULTI-TESTING OF MAGNETIC TAPES WITH A MORE CONVENIENT USER-COMPUTER
060 INTERFACE. THE TAPE TEST RESULTS ARE OUTPUT ON THE LINE-PRINTER. THE INFORMATION PROVIDED IS THE NAME
070 OF THE TAPE, THE DATE TESTED, THE LENGTH OF THE TAPE IN FEET, THE NUMBER OF ERRORS, AND A LIST OF THE

080 POSITIONS OF THE ERRORS IN FEET. THE PROGRAM HAS THE FACILITY TO TEST UP TO SEVEN TAPES WITH A MINIMUM
090 OF USER ATTENTION.
100 COMMENTS THIS PROGRAM WILL RUN UNDER B00 TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE
110 LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

B3890886 000 AA 9300 16K DGC NOVA SIMULATOR P UM
010 AUTHOR J. GARMIL, A. VIRET, G. KOSSUTH
020 890886-11A00 DESCRIPTION PRINTED
030 890886-34A00 * SOURCE CARDS
040 890886-44A00 890886-34 COMPRESSED CARDS
050 890886-74A00 890886-34 TEST PROGRAM
060 ABSTRACT A BIT BY BIT DIGITAL SIMULATION OF A DATA GENERAL NOVA LINE COMPUTER WITH EXTENSIVE DEBUG CAPABILITY HAS
070 BEEN DEVELOPED FOR PROGRAM CHECKOUT. FEATURES INCLUDE ADDRESS STOP, EFFECTIVE ADDRESS STOP, TRACE AND
080 MEMORY DUMP WITH 16K SIMULATED MEMORY AND TTI, TTO, PIK, PIF, PIP, RTC, LPT, DEVICES SIMULATED. THE CPU
090 RUNS APPROXIMATELY 100 TIMES SLOWER THAN REAL-TIME.
100 COMMENTS THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE
110 MAIN PROGRAM IS WRITTEN IN FORTRAN AND METASYMBOL.

~~B3890890~~ 000 AB SIGMA 5-9 UCLA BIOMEDICAL PROG.-REGULAR & X SERIES P UC
010 AUTHOR D. PALMER, VANDERBILT UNIVERSITY
020 890890-11B00 DESCRIPTION PRINTED
030 890890-36B00 * SOURCE MAG TAPE, 9 CHANNELS
040 890890-46B00 890890-36 COMPRESSED MAG TAPE, 9 CHANNELS
050 ABSTRACT THE UCLA BMD BIOMEDICAL SERIES CONSISTS OF OVER 50 STATISTICAL ANALYSIS PROGRAMS. THESE ROUTINES ARE AS
060 DESCRIBED IN THE UCLA BMD MANUAL, 3RD EDITION (DATED JANUARY 1, 1973), AS PUBLISHED BY THE UNIVERSITY OF
070 CALIFORNIA PRESS. AN EFFORT WAS MADE TO RETAIN ALL OF THE FEATURES OF THE UCLA PROGRAMS. AS A RESULT,
080 SOME METASYMBOL ROUTINES WERE WRITTEN TO HANDLE CHARACTER (BYTE) MANIPULATION, AND THE FORTRAN LIBRARY
090 ROUTINE 91EDIT WAS MODIFIED SO AS TO DISTINGUISH ZEROS FROM BLANKS ON INPUT.
100 COMMENTS THIS PROGRAM WILL RUN UNDER BPM/CP-V/UTS OPERATING SYSTEMS. PROGRAM TYPE IS STATISTICAL ANALYSIS
110 PROGRAMS. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
120 THIS VERSION REPLACES THE BMD REGULAR AND X-SERIES PROGRAMS AS DESCRIBED IN THE 2ND EDITION OF THE BMD
130 MANUAL AND THE BMDX MANUAL. THESE PROGRAMS WILL RUN UNDER BPM, UTS, AND CP-V OPERATING SYSTEMS.

B3890894 000 AA SIGMA 5-9 APEXTCLP P UC
010 AUTHOR XEROX
020 890894-11A00 DESCRIPTION PRINTED
030 890894-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
040 890894-36A00 890894-26 SOURCE MAG TAPE, 9 CHANNELS
050 890894-46A00 890894-26 COMPRESSED MAG TAPE, 9 CHANNELS

060 890894-74A00 DATA AND TEST PROGRAM ON CARDS
 070 ABSTRACT APEXTCLP USES AP CONCORDANCE LISTINGS (GENERATED BY THE AP DC OPTION) OF MULTI-MODULE PROGRAMS AS INPUT
 080 AND GENERATES A GLOBAL CONCORDANCE LIST OF ALL EXTERNAL LINKAGES AS INDICATED BY THE DIRECTIVES DEF,
 090 REF, SREF OR DSECT. EVEN THOUGH APEXTCLP ACCEPTS ONLY CONCORDANCE LISTINGS GENERATED BY AP, IT MAY BE
 100 USED TO PRODUCE GLOBAL CONCORDANCE LISTINGS OF MULTI-MODULE PROGRAMS CONSISTING OF ASSEMBLY PROGRAMS, OR
 110 FORTRAN PROGRAMS, OR BOTH. IN CASE OF FORTRAN PROGRAM MODULES THE PROGRAM LOINTOSI RECONSTRUCTS AN AP
 120 PROGRAM FROM THE FORTRAN LO LISTING.
 130 COMMENTS THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS SERVICE ROUTINE. BASE LANGUAGE MAIN
 140 PROGRAM IS WRITTEN IN XEROX AP.
 150 APEXTCLP IS AN EXTREMELY USEFUL DEBUGGING TOOL FOR LARGE MULTI-MODULE PROGRAMS WITH MANY EXTERNAL
 160 LINKAGES.

B3890896 000 AB 900-SERIES 9-SERIES MAG TAPE DIAGNOSTICS P UM
 010 AUTHOR XEROX
 020 890896-11A00 DESCRIPTION PRINTED
 030 890896-85A01 ABSOLUTE BINARY MAG TAPE, 7 CHANNELS
 040 ABSTRACT A TAPE WHICH CONTAINS ALL EXISTING 9-SERIES DIAGNOSTICS WITH AN EASY-TO-USE INDEXING AND LOADING SCHEME.
 050 FEATURES INCLUDE, 'W' AND 'Y' CHANNEL UNIVERSAL LOADERS, LISTABLE CATALOG NUMBERS ON LINE PRINTER OR
 060 TELETYPE, LISTABLE OPERATING INSTRUCTIONS FOR ALL DIAGNOSTICS, AND MANY C.E. ORIENTED SERVICE ROUTINES.
 070 COMMENTS THIS PROGRAM WILL RUN UNDER DCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN
 080 PROGRAM IS WRITTEN IN METASYMBOL.
 090 OPERATES UNDER MINIMUM CONFIGURATION OF 8K MEMORY FOR 900/9300 SYSTEMS, AND 4K MEMORY FOR 92
 100 SYSTEMS WITH ONE MAG TAPE UNIT AND TELETYPE. THIS UPDATE IS FOR PROGRAM CORRECTIONS
 110 AND ADDITIONS. TAPE VERSION IS NOW A01.

~~B3890897~~ 000 AA SIGMA 3 DECIPHER SUBROUTINE P UH
 010 AUTHOR XEROX
 020 890897-11A00 DESCRIPTION PRINTED
 030 890897-34A00 * SOURCE CARDS
 040 ABSTRACT THIS SUBROUTINE ALLOWS A USER TO ENTER OPTIONS ON THE CONTROL CARD; THE PROGRAM SORTS AND RETURNS THESE
 050 OPTIONS TO THE MAIN PROGRAM ENCODED IN A USER-SUPPLIED ARRAY.
 060 THESE OPTIONS RETURNED TO THE CALLING PROGRAM MAY THEN BE USED TO CONTROL THE MAIN PROGRAM.
 070 COMMENTS THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
 080 IS WRITTEN IN FORTRAN.
 090 THE SUBROUTINE IS A FORTRAN PROGRAM WHICH USES IN-LINE ASSEMBLY CODES TO RETURN OPTIONS FROM THE CONTROL
 100 CARD IMAGE. THE CONTROL CARD IMAGE IS READ FROM THE ADDRESS IN K:CCBUFF GIVEN IN THE MONITOR CONSTANT
 110 TABLE (I.E. X'F7') AND THE OPTIONS ARE RETURNED IN A USER-SUPPLIED ARRAY THAT IS 80 WORDS LONG. THE
 120 SUBROUTINE MUST BE CALLED BEFORE ANY CALLS TO BLOCKED FILES; OR RBM WILL DESTROY THE CONTROL CARD IMAGE.

090 EM VERSION, THE THREE SYMBOLS RBM, BPM, AND CP-V ARE DEFINED TO ALLOW THE DETERMINATION OF OPERATING SYST
100 EM ENVIRONMENT, ONE SYMBOL MUST BE SET TO 1, THE OTHERS SET TO 0. SYSTEM XPL/S REQUESTS EITHER SYSTEM RB
110 M OR SYSTEM BPM, DEPENDING UPON THE ENVIRONMENT.

~~B3890961~~ 000 AA SIGMA 3 XGP - VAR P UH
010 AUTHOR XEROX
020 890961-11A00 DESCRIPTION PRINTED
030 890961-26A00 RELOCATABLE BINARY MAG TAPE, 9 CHANNELS
040 ABSTRACT THIS PROGRAM ALLOWS THE XEROX GRAPHICS PRINTER (XGP) TO BE USED AS A VARIABLE WIDTH CHARACTER LINE
050 PRINTER UNDER CONTROL OF RBM. THE PROGRAM READS EBCDIC DATA A LINE AT A TIME AND FORMATS ON-THE-FLY TO
060 THE XGP. OPTIONS INSERTED ON THE CONTROL CARD CAN SELECT FOUR MODES OF OPERATION PLUS AN OUTPUTTING
070 MODE TO ONE OF TWO XGP'S RUNNING AT DIFFERENT RATES (192 OR 128 BITS PER INCH). THE SOFTWARE CHANGEABLE
080 FONT HAS A 256 CHARACTER SET OF VARIOUS WIDTH CHARACTERS.
090 COMMENTS THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEMS. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
100 IS WRITTEN IN XSMBCL. THE PROGRAM IS ONLY 725 WORDS BUT REQUIRES 2 BUFFERS AND SPACE FOR THE FONT; EACH
110 FONT CONTAINS A CONTROL SECTION OF 540 WORDS, WHICH DESCRIBE THE FONT, AND THE REMAINING FONT RECORDS
120 CONTAIN THE ACTUAL FONT BROKEN INTO 5760 BYTE BLOCK SIZES. THE PROGRAM ACCEPTS ANY WIDTH CHARACTERS UP
130 TO MAXIMUM DETERMINED BY THE XGP AND ANY HEIGHT BUFFER AS LONG AS THE PROGRAM, FONT, AND BUFFERS WILL
140 FIT IN CORE. THE PROGRAMS ASSUME THAT OPLABELS TO THE XGPs WERE INCLUDED AT SYSGEN AND THAT THE XGPs
150 WERE DECLARED AS XX DEVICES. THE BASIC CONTROL FUNCTIONS OF THE PROGRAM ARE SIMILAR TO XGP-OUT.

~~B3890962~~ 000 AA SIGMA 5-9 ROMLIB P UC
010 AUTHOR D. TERRY, UNIVERSITY OF WASHINGTON
020 890962-11A00 DESCRIPTION PRINTED
030 890962-36A00 * SOURCE MAG TAPE, 9 CHANNELS
040 ABSTRACT ROMLIB ALLOWS ANY SEQUENTIAL DISK FILE OF OBJECT MODULES TO BE USED AS A LIBRARY, AND PROVIDES A
050 COMPLETE SEARCH AND UPDATE CAPABILITY. IT WILL CREATE AND MAINTAIN ANY SEQUENTIAL FILE AS A LIBRARY OF
060 OBJECT MODULES, AND ALSO SEARCH AND EXTRACT FROM SUCH FILES THE MODULES REQUIRED TO SATISFY THE
070 REFERENCES ON THE GC FILE, THUS PROVIDING AN AUXILIARY LIBRARY FACILITY. ANY SEQUENTIAL DISK FILE OF
080 ROMS (CREATED BY ANY PROCESSOR) MAY BE USED AS A LIBRARY. GROUPS OF FILES MAY BE SEARCHED AS A UNIT
090 WITH ALL REFS (BOTH FORWARD AND BACKWARD) BEING SATISFIED; THE ROMS NEED NOT BE IN ANY PARTICULAR ORDER.
110 COMMENTS THIS PROGRAM WILL RUN UNDER RBM OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM
120 IS WRITTEN IN AP AND XPL/S.
130 THE PROGRAM IS WRITTEN IN XPL/S (CN890923) AND USES A SMALL AP PROGRAM FOR INTERFACE TO THE OPERATING
140 SYSTEM. THE EFFORT TO CONVERT TO OTHER OPERATING SYSTEMS SHOULD BE MINIMAL. SYSTEM XPLS (CN890959) AND
150 THEREFORE SYSTEM RBM (CN890958) ARE REQUIRED FOR THE ASSEMBLY. TABLE SIZES ARE COMPILE-TIME PARAMETERS
160 AND MAY BE ADJUSTED IF NECESSARY.

B3890963 000 AA 9-SERIES MAGTP P UM

010 AUTHOR A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
020 890963-11A00 DESCRIPTION PRINTED
030 890963-34A00 * SOURCE CARDS
040 ABSTRACT MAGTP IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING
050 THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS, IT DOES NOT DISCONNECT THE TAPE UNIT AFTER
060 EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME
070 REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
080 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
090 PROGRAM IS WRITTEN IN SYMBOL.

B3890964 000 AA 9-SERIES MTAPE P UM
010 AUTHOR A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
020 890964-11A00 DESCRIPTION PRINTED
030 890964-34A00 * SOURCE CARDS
040 ABSTRACT MTAPE IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING
050 THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS, IT DOES NOT DISCONNECT THE TAPE UNIT AFTER
060 EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME
070 REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
080 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN
090 PROGRAM IS WRITTEN IN SYMBOL.

B3890965 000 AA 9-SERIES SYMBOL P UM
010 AUTHOR A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
020 890965-11A00 DESCRIPTION PRINTED
030 890965-34A00 * SOURCE CARDS
040 ABSTRACT SYMBOL IS A MODIFICATION THAT IMPROVES THE SYMBOL ASSEMBLER IN MANY WAYS. OPTIONS ADDED INCLUDE A
050 SECOND PASS FROM SI DEVICE, LIST-ONLY ERROR LINES, AND MULTIPLE ASSEMBLIES WITHOUT GOING BACK TO
060 MONARCH. IMPROVEMENTS INCLUDE EDITING CARRIAGE RETURNS, TABS, AND BACKSPACES OUT OF BCD AND IEXI
070 STATEMENTS, SEQUENCE NUMBERS ON CARDS FOR BO, AND FIVE INCHES OF BLANK TAPE ON PAPER TAPE BO.
080 COMMENTS THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN
090 PROGRAM IS WRITTEN IN SYMBOL.

~~B3890967~~ 000 AA SIGMA 5-9 BLOCKED AND OVERLAPPED I/O PACKAGE P UC
010 AUTHOR S. WHITE, GODDARD COMPUTER SCIENCE INSTITUTE
020 890967-11A00 DESCRIPTION PRINTED
030 890967-36A00 * SOURCE MAG TAPE, 9 CHANNELS
040 890967-76A00 890967-36 TEST ON MAG TAPE
050 ABSTRACT BOIOP IS A ROUTINE THAT PROVIDES FOR AUTOMATIC DOUBLE BUFFERING OF I/O. THE ROUTINE ALSO PROVIDES FOR
060 BLOCKING AND DEBLOCKING OF FIXED LENGTH RECORDS. THE ROUTINES CAN BE CALLED FROM METASYMBOL OR FORTRAN.