

HONEYWELL PROPRIETARY

**9-SERIES
KNIC INDEX**

PROGRAM AVAILABILITY LIST

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4K	SYSTEM...910/925 ALGOL 60 BASIC	850816	B3	9185	CATHODE RAY TUBE DISPLAY UNIT/S RE1..	850727	B3
4TH 16K	3.0...UNIT 5 MEMORY TEST FOR THE	870035	B3	9267	DISC FILE DIAGNOSTIC-(OFD)...	860785	B3
42KC	MAG TAPE SYS EXERCISER, Y BUF...	850682	B3	9333	7 OR 8 LEVEL PAPER TAPE TEST...MODEL	850728	B3
42KC	MAGNETIC TAPE EXERCISER, W BUFFER...	850696	B3	9367	RAD...930 RAD DIAGNOSTIC FOR	851083	B3
42KC	MAGNETIC TAPE TEST PROGRAM Y BUFFER..	850681	B3	9367-A	925/...TEST PROGRAM DISC FILE MODEL	851130	B3
42KC	MAGNETIC TAPE TEST PROGRAM,W BUFFER..	850695	B3	9367-A...	TEST PROGRAM FOR DISC FILE	851185	B3
6D	SIMULATOR SYSTEM DIAGNOSTIC...DEE-	851136	B3	9372	PRINTER...MEMORY DUMP FOR	890252	B3
6D	SIMULATOR SYSTEM HANDLERS...DEE-	850742	B3	9372	UNBUF. LINE PRINTER.SUBR.(PRIN...MOD.	851178	B3
8K	VERSION...DES-1	860779	B3	9372	UNBUF.LINE PRINTER DIAGNOSTIC...MOD.	851179	B3
9RDDISC,9WRDISC...	FORTRAN IV LIBRARY	861085	B3	9372	UNBUFFERED LINE PRINTER SUBR...MODEL	860749	B3
9TK	EXTEND MODE MULTI-MAG TAPE EXERCISER..	850755	B3	9372	UNBUFFERED LINE PRINTER TEST 925/93..	851124	B3
9TK	EXTEND MODE MULTI-MAG TAPE EXERCISER..	860794	B3	9372	UNBUFFERED LINE PRINTER TEST...MODEL	860755	B3
9TRACK	MAGNETIC TAPE TEST PROGRAM...	860793	B3	9372	UNBUFFERED PRINT OUTPUT SUBR...SYMBOL	860751	B3
9WRDISC...	FORTRAN IV LIBRARY 9RDDISC,	861085	B3	9379	PRINTER DIAGNOSTIC 925/930...	851123	B3
900	PAPER TAPE PUNCH TEST...	851623	B3	9379	PRINTER DIAGNOSTIC...	860782	B3
900	SERIES CARD READER TEST PROGRAM...	850656	B3	9379/9171	BUFFERED LINE PRINTER DIAG...	860754	B3
900	SERIES FORTRAN II COMPILER DUMP...	850662	B3	9379/9171...	BUFFERED LINE PRT. DIAGNOSTIC	851180	B3

- 850000 900-SERIES MONARCH COMMON SOFTWARE PACKAGE
AUTHOR: XEROX
ABSTRACT:
ROUTINES THAT PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT
REQUIRING OPERATOR INTERVENTION.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS 850001 THRU 850011, 850013 THRU 850023, 850031 THRU 850033, 850669,
851012, 851290 THRU 851298
- 850001 9-SERIES MONARCH TAPE LOADER (LOAD)
AUTHOR: XEROX
ABSTRACT:
THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH TAPE SYSTEM.
COMMENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL
- 850004 9-SERIES MONARCH RAD LOADER (LOAD)
AUTHOR: XEROX
ABSTRACT:
THIS LOAD PROGRAM PROVIDES THE LOADING CAPABILITY FOR THE 900'S MONARCH RAD SYSTEM.
COMMENTS:
PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 850022 9-SERIES PURGE FOR RAD MONARCH
AUTHOR: XEROX DATA SYSTEMS
ABSTRACT:
THIS ROUTINE IS ON RAD MONARCH SYSOEN TAPE. IT IS USED TO REMOVE USER-ADDED LABELS FROM THE FILE
DIRECTORY, AT USERS DISCRETION.
COMMENTS:
- 850023 900-SERIES BOOTSTRAP GENERATOR FOR RAD MONARCH
AUTHOR: XEROX
ABSTRACT:
PUNCHES A BOOTSTRAP FOR RAD MONARCH (WITH CURRENT POINTERS) ON PAPER TAPE OR CARDS. USE OUTPUT TO RELOAD
SYSTEM.
- 850035 910 910/925 TAPE MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOC-
IATED LIBRARIES.
COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF CORE STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES.
- 850036 9-SERIES 925 RAD MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
A SYSTEM TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT
REQUIRING OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND
R.T. FORTRAN-II PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE MAG TAPE, AND A 9367 DISC FILE
- 850037 9-SERIES 920/930 TAPE MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
OPERATOR INTERVENTION. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II PROCESSORS AND ASSOC-
IATED LIBRARIES.
COMMENTS:
ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, AND ONE OR MORE MAGNETIC TAPES.
- 850038 9-SERIES 930 RAD MONARCH SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING
OPERATOR INTERVENTION USING A 9367 DISC FILE. INCLUDES SYMBOL, METASYMBOL, FORTRAN-II AND R.T. FORTRAN-II
PROCESSORS AND ASSOCIATED LIBRARIES.
COMMENTS:
ANY XDS 930 WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND A 9367 DISC FILE.

850040 900-SERIES SYMBOL ASSEMBLER COMMON SOFTWARE PACKAGE

AUTHOR: XEROX

ABSTRACT:

TO ASSEMBLE SOURCE PROGRAMS WRITTEN IN THE SYMBOL ASSEMBLY LANGUAGE.

COMMENTS:

THIS PROGRAM COVERS CATALOG NUMBERS: 850041 THRU 850059.

850065 900-SERIES META-SYMBOL ASSEMB. COMMON SOFTWARE PKG

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE IS THE COVER FOR THE 900-SERIES META-SYMBOL ASSEMBLER. THE SYSTEM IS ONLY AVAILABLE UNDER MONARCH.

COMMENTS:

RELOCATABLE BINARY ON MONARCH SYSTEM TAPES: 850035-85 850036-85, 850037-85, 850038-85. THIS PROGRAM INCLUDES CATALOG NUMBERS 850066 THRU 850090, 851262 THRU 851270, AND 851273 THRU 851281

850090 9-SERIES META-SYMBOL PROC93CP

AUTHOR: XEROX

ABSTRACT:

CONVERTS 900 CODE TO 9300 CODE

850095 900-SERIES MONARCH LIBRARY COMMON SOFTWARE PACKAGE

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE CONTAINS THOSE ROUTINES COMMON TO ALL 900 SERIES MONARCH SYSTEMS.

COMMENTS:

900 SERIES RELOCATABLE BINARY ON MONARCH SYSTEM TAPES. THIS PROGRAM COVERS CATALOG NUMBERS 850101 THRU 850160, 850171 THRU 850202, 850204, 850642, 850647 PART OF CATALOG NO. 850095, MONARCH LIBRARY COMMON SOFTWARE PACKAGE. RELOCATABLE BINARY AVAILABLE AS PART OF 850035-85 FOR TAPE MONARCH AND 850038-85 FOR RAD MONARCH.

850161 910 PROJECT MANAGEMENT SYSTEM (CPM) COVER

AUTHOR: XEROX

ABSTRACT:

THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, WHICH CONSISTS OF THE FOLLOWING PROGRAMS SCHEDULE SPECTRUM PROGRAM (SSP), DETAIL SCHEDULE REPORT PROGRAM (DSRP) PROGRESS EVALUATION PROGRAM (PEP) PROGRESS EVALUATION SORT PROGRAM (PEPSORT) RESOURCE ALLOCATION PROGRAM (RAP) BARCHART

COMMENTS:

COMPUTER CONFIGURATION: 910/925 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND A BUFFERED PRINTER. THIS PROGRAM COVERS CATALOG NUMBERS 850162 THRU 850187, 850362 THRU 850368 TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE

850210 910/925 FORTRAN II COMMON SOFTWARE PACKAGE

AUTHOR: XEROX

ABSTRACT:

THE FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING, LOADING, AND EXECUTING FORTRAN II PROGRAMS.

COMMENTS:

SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS MANUAL. RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. RELOCATABLE BINARY AVAILABLE ON 850808-85 FOR STAND-ALONE (S/A) THIS PROGRAM COVERS CATALOG NUMBERS 850211, 850212, 850215 THRU 850251, 850256 THRU 850277, 850279 THRU 850294, 851138 THRU 851141, 851282, 851283

850211 9-SERIES 910/925 F-II COMPILER (FC-1)

AUTHOR: XEROX

ABSTRACT:

THE FORTRAN II COMPILER IS A ONE-PASS ROUTINE; THAT IS IT READS THE SOURCE PROGRAM ONLY ONCE AND SIMULTANEOUSLY GENERATES THE OBJECT PROGRAM IN A FORM ACCEPTABLE TO THE FORTRAN LOADER.

850315 9-SERIES 920/930 FORTRAN-II COMMON SOFTWARE PKG.

AUTHOR: XEROX

ABSTRACT:

THIS PACKAGE CONTAINS 920/930 FORTRAN II COMPILER, AND LOADER ROUTINES SEE COMPARABLE 910/925 ROUTINES FOR ABSTRACTS.

COMMENTS:

SEE MANUALS 900003, FORTRAN II REFERENCE MANUAL, AND 900587, XDS 900 SERIES FORTRAN II OPERATIONS MANUAL. RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH. RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR RAD MONARCH. THIS COVER NUMBER INCLUDES CATALOG NUMBERS 850212, 850316, 850318 THRU 850322, 850325 THRU 850329, 850558 THRU 850623, 851140, 851125, 851126, 851141, 851284, 851285

850330 9-SERIES ALGOL COMMON SOFTWARE PACKAGE (COVER)

AUTHOR: XEROX

ABSTRACT:

THE 900 SERIES ALGOL 60-8 SYSTEM IS A COMPLETE SYSTEM FOR COMPILING, LOADING, AND EXECUTING ALGOL 60-8

850330 CONTINUED ON FOLLOWING PAGE

- 850330 ALGOL COMMON SOFTWARE PACKAGE (COVER) (CONTINUED)
PROGRAMS.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.S: 850818 THRU 850823, 850825, 850826, 850827, 850844 THRU 850846, 850972
THRU 850977, 850979 THRU 850981, 851000 THRU 851002, 850331, 850332, 850335 THRU 850355, 850360, 850361,
850370 THRU 850372.
- 850362 920 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM, SEE COMPARABLE 910/925 ROUTINES FOR
ABSTRACTS.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900S WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE
WRITER, PAPER TAPE OF PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. TWO 2400 FT. TAPES ARE
NEEDED FOR SOURCE MAG TAPE
- 850400 910 REAL-TIME FORTRAN COMMON SOFTWARE PKG
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. SEE COMPARABLE 910/925 ROUTINES
FOR ABSTRACTS.
COMMENTS:
RELOCATABLE BINARY AVAILABLE ON 850035-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850036-85 FOR
RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850401, 850403 THRU 850406, 850408 THRU 850478, 850478,
851286, 851287
- 850480 9-SERIES 920/930 R/T FORTRAN COMMON SOFTWARE PKG.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE BATCH PROCESSING CAPABILITY FOR REAL-TIME FORTRAN II UNDER MONARCH. FOR ABSTRACTS, SEE
COMPARABLE ROUTINES IN EITHER 910/925 FORTRAN II OR 910/925 R.T. FORTRAN II.
COMMENTS:
RELOCATABLE BINARY AVAILABLE ON 850037-85 FOR TAPE MONARCH RELOCATABLE BINARY AVAILABLE ON 850038-85 FOR
RAD MONARCH. THIS PROGRAM COVERS CATALOG NUMBERS 850481 THRU 850483, 850485 THRU 850557, 851288, 851289
- 850624 9-SERIES ZERO MEMORY
AUTHOR: XEROX
ABSTRACT:
TO SET ALL OF MEMORY EXCEPT WORD 0007 TO 000000.
COMMENTS:
SIZE: 8 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.
- 850625 9-SERIES SELECTIVE MEMORY CLEAR - BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO AID THE USER IN CLEARING SELECTED PORTIONS OF MEMORY, BY SELECTIVELY CLEARING MEMORY, THE ROUTINE
SAVES PROGRAMS WHICH THE USER MAY WANT TO USE AGAIN.
COMMENTS:
SIZE: 22 DECIMAL. CONFIGURATION: ALL 910 AND 920
- 850626 9-SERIES PAPER TAPE REPRODUCER PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO REPRODUCE BINARY PAPER TAPE. ONLY THOSE TAPES WHICH HAVE AN INTEGRAL MULTIPLE OF FOUR CHARACTERS PER
BLOCK CAN BE PRODUCED BY THIS PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 355 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH PUNCH,
READER AND TYPEWRITER.
- 850627 9-SERIES BINARY VERIFY - BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE METHOD OF ASCERTAINING THE VALIDITY OF INFORMATION LOADED INTO MEMORY FROM TAPE OR
OF INFORMATION PUNCHED ON TAPE. THE ROUTINE WILL VERIFY ANY ABSOLUTE BINARY TAPE WHICH HAS A STARTING
ADDRESS IN BITS 10-23 OF THE SECOND CONTROL WORD OF EACH BLOCK.
COMMENTS:
SIZE 30 DECIMAL. CONFIGURATION: ALL 910 AND 920 SYSTEMS.
- 850628 9-SERIES MEMORY TYPE-OUT, REDUNDANCY ELIMINATION
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TYPES SPECIFIED SECTIONS OF MEMORY, FOUR WORDS PER LINE, IN EITHER OCTAL OR INSTRUCTION
FORMAT. BIT PATTERNS WHICH REPEAT ARE INDICATED, RATHER THAN REDUNDANTLY TYPED.
COMMENTS:
SIZE 129 DECIMAL. CONFIGURATION: 910 OR 920 COMPUTER WITH TYPEWRITER.

- 850629 9-SERIES DEBUO
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN DEBUGGING. FUNCTIONS WHICH MAY BE PERFORMED BY THIS ROUTINE ARE 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:
SIZE 477 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 COMPUTER.
- 850634 9-SERIES BINARY PAPER TAPE BOOTSTRAP + GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON PAPER TAPE IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/ META-SYMBOL. SIZE 55 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEMORY AND PAPER TAPE PUNCH.
- 850637 9-SERIES BINARY PAPER TAPE LIST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A METHOD OF LISTING A BINARY PAPER TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE 140 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS MODEL 9173 LINE PRINTER OR TYPEWRITER.
- 850638 9-SERIES FORTRAN II MEMORY SAVE
AUTHOR: XEROX
ABSTRACT:
TO PUNCH A SELF-LOADING PAPER TAPE REPRESENTING THE FORTRAN PROGRAM WHICH IS IN CORE AND OPTIONALLY TO PUNCH ANY OF THE FOLLOWING: 1. THE FORTRAN VARIABLES 2. COMMON 3. RUN-TIME .
COMMENTS:
SOURCE LANGUAGE: SYMBOL-B. SIZE 355 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER, PAPER TAPE PUNCH, AND CONSOLE TYPEWRITER. CARD READER OPTIONAL.
- 850641 9-SERIES FORTRAN SOURCE CARDS TO P.T.COPY ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY FORTRAN SOURCE CARD IMAGES (COLUMNS 1-72, OR LESS) ONTO PAPER TAPE AND CONVERT ALL CARD BLANKS (60) TO SPACES (12).
COMMENTS:
SIZE 70 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER AND PAPER TAPE PUNCH.
- 850642 900-SERIES MEDIA CONVERSION ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY VARIABLE LENGTH RECORDS ON BINARY OR BCD CARDS, PAPER OR MAGNETIC TAPE, OR TYPED INPUT, TO CARDS, PAPER OR MAGNETIC TAPE, TYPEWRITER OR LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1181 DECIMAL. CONFIGURATION: ANY 4K XDS 910, 920, 925 OR 930 WITH ONE OR MORE PERIPHERAL DEVICES ATTACHED TO ANY OR CHANNEL AND A CONSOLE TYPEWRITER ON THE W BUFFER. BINARY IS ALSO AVAILABLE ON MONARCH SYSTEM TAPES. THIS PROGRAM IS PART OF CATALOG NO. 850095.
PROGRAM IS PART OF CATALOG
- 850643 9-SERIES BINARY DUMP, PAPER TAPE OR CARDS
AUTHOR: XEROX
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT OR PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 252 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE AND/OR CARD I/O.
- 850644 9-SERIES BINARY INPUT-BASIC PAPER TAPE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD RELOCATABLE OR ABSOLUTE OBJECT PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL ON PAPER TAPE, AND TO LOAD THE 'STANDARD CONSTANTS.'
COMMENTS:
SIZE 79 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER.

- 850645 9-SERIES UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SIZE 664 DECIMAL. ASSEMBLY LANGUAGE USED: SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.
- 850646 9-SERIES XDS 900 TO 92 BINARY LANGUAGE TRANSLATOR
AUTHOR: XEROX
ABSTRACT:
TO TRANSLATE XDS 92 BINARY OBJECT PROGRAMS PRODUCED BY META-SYMBOL FROM THE STANDARD XDS 900 SERIES BINARY OBJECT LANGUAGE INTO THE STANDARD XDS 92 BINARY OBJECT PROGRAM LANGUAGE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 622 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH PAPER TAPE READER OR CARD READER, PAPER TAPE PUNCH OR CARD PUNCH.
- 850647 900-SERIES ENCODED TO SYMBOLIC RECONSTRUCTOR(RECON)
AUTHOR: XEROX
ABSTRACT:
TO RECONSTRUCT FROM AN ENCODED REPRESENTATION OF A PROGRAM ON PAPER TAPE, CARDS OR MAGNETIC TAPE A SYMBOLIC REPRESENTATION OF THE PROGRAM ON CARDS, PAPER TAPE OR MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1019 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT LEAST 4K WORDS OF MEMORY AND A CARD READER, OR PAPER TAPE READER, OR MAGNETIC TAPE UNIT AND CARD PUNCH OR PAPER TAPE PUNCH OR MAGNETIC TAPE UNIT. BINARY ALSO AVAILABLE ON MONARCH SYSTEM TAPES.
- 850648 9-SERIES BINARY INPUT ONE CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.
COMMENTS:
SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.
- 850649 9-SERIES BINARY INPUT-TWO CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD RELOCATABLE OR ABSOLUTE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON PUNCHED CARDS.
COMMENTS:
SIZE 78 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD READER.
- 850650 9-SERIES ABSOLUTE BINARY LOADER WITH CONSTANTS
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON CARDS IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 83 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH CARD READER.
- 850651 9-SERIES CARD FILL SIMULATOR (910/920)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE USERS OF THE XDS 910/920 SERIES COMPUTERS WITH A PAPER TAPE ROUTINE THAT SIMULATES THE CARD FILL SWITCH ON THE XDS 925/930 SERIES COMPUTERS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE 12 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE READER AND A BINARY CARD READER.
- 850652 9-SERIES THREE CARD RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ABSOLUTE OR RELOCATABLE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER IN XDS STANDARD BINARY PUNCHED CARD FORMAT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 135 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARDS READER.

- 850653 9-SERIES OCTAL INPUT-ONE CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
COMMENTS:
SIZE 32 DECIMAL. ANY XDS 900 SERIES COMPUTER.
- 850662 9-SERIES 900 SERIES FORTRAN II COMPILER DUMP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF DUMPING THE FORTRAN II COMPILER, PRECEDED BY AN ABSOLUTE BINARY LOADER, EITHER ON PAPER TAPE OR CARDS. THIS ALLOWS THE USER TO GENERATE AN EXTENDED COMPILER INCORPORATING ANY OF THE AVAILABLE COMPILER MODIFICATIONS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:391 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A PAPER TAPE PUNCH OR CARD PUNCH.
- 850663 9-SERIES BASIC SYMBOLIC MAGNETIC TAPE EDITOR
AUTHOR: XEROX
ABSTRACT:
TO COPY AND UPDATE MAGNETIC TAPES CONTAINING VARIABLE LENGTH RECORDS (1-33 WORDS) OF BCD INFORMATION.
COMMENTS:
SOURCE LANGUAGE: FORTRAN, SYMBOL. SIZE:8000 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, AND TWO MAGNETIC TAPES. A CARD READER IS DESIRABLE.
- 850664 9-SERIES PAPER TAPE AND MAGNETIC TAPE COPIER
AUTHOR: XEROX
ABSTRACT:
TO COPY PAPER TAPE TO MAGNETIC TAPE AND MAGNETIC TAPE TO PAPER TAPE.
COMMENTS:
SIZE 347 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 4K MEMORY AND ONE MAGNETIC TAPE UNIT.
- 850666 9-SERIES MAG TAPE STANDARD FILL SIMULATOR(910/920)
AUTHOR: XEROX
ABSTRACT:
TO LOAD PROGRAMS FROM MAGNETIC TAPE 0 VIA THE STANDARD FILL PROCEDURE.
COMMENTS:
SIZE 20 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH ONE MAGNETIC TAPE UNIT (SET TO ZERO).
- 850667 9-SERIES BINARY INPUT-MAGNETIC TAPE ABSOLUTE LDR
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT BY SYMBOL OR META-SYMBOL ON LOW DENSITY MAGNETIC TAPE IN STANDARD BINARY FORMAT.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:38 DECIMAL. ANY XDS 900 SERIES COMPUTER WITH MAGNETIC TAPE.
- 850669 9-SERIES MONARCH - LIBPACK
AUTHOR: XEROX DATA SYSTEMS
ABSTRACT:
TO PROVIDE A GENERALIZED GET/PUT PROGRAM DESIGNED TO CREATE BLOCKED LIBRARY MAG TAPES WRITTEN BCD OR BINARY (ENCODED) TO FACILITATE TAPE STORAGE. THE PROGRAM ALSO PROVIDES THE ABILITY TO RECREATE HARD COPY, PRINTED LISTS AND GENERATE MULTIPLE MASTER COPIES FOR BACK UP AND GENERAL DISTRIBUTION.
COMMENTS:
THIS PROGRAM IS PART OF 850000, MONARCH COMMON SOFTWARE PACKAGE. RELOCATABLE BINARY ARE PART OF THE APPROPRIATE SYSTEM TAPE.
- 850677 9-SERIES 92 PROCEDURE DECK
AUTHOR: XEROX
ABSTRACT:
META-SYMBOL WITH THIS PROC DECK SERVES AS IN INTERIM ASSEMBLER IN PLACE OF 92 SYMBOL.
COMMENTS:
PROGRAMS ASSEMBLED WITH THIS PROC DECK SHOULD BE PRECEDED BY AORG N, N> 32. THE FOLLOWING SHOULD NOT BE USED: TEXT, BCE, REG, REF, DEF, OPD, LOCAL SYMBOLS. SOURCE LANGUAGE: META-SYMBOL.
- 850678 9-SERIES DEMONSTRATION OF LINKING UNDER MONARCH
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE - COMPILING OF THREE LINKS, WRITING THE LINKS ON THE LINKING TAPE AND EXECUTING THE PROGRAM.
COMMENTS:
SOURCE LANGUAGE: FORTRAN. CONFIGURATION: 900 SERIES WITH AT LEAST TWO MAGNETIC TAPES AND CARD READER.

- 850680 9-SERIES FORTRAN II RUN-TIME DEBUG SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW THE USER TO EXAMINE THE VALUES OF VARIABLES DURING THE EXECUTION OF A FORTRAN PROGRAM AND TO CHANGE THESE VALUES CONVENIENTLY.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:319 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH TYPEWRITER.
- 850683 9-SERIES BUFFERED LINE PRINTER MEMORY DUMP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A METHOD OF PRINTING THE CONTENTS OF MEMORY VIA THE LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 248 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER.
- 850684 9-SERIES CARD OR MAG TAPE TO BUFFERED LINE PRINTR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A METHOD OF PRINTING CARD IMAGES FROM EITHER A CARD READER OR A MAGNETIC TAPE UNIT WITH OR WITHOUT FORMAT CONTROL ON THE LINE PRINTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 808 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER AND EITHER AN XDS MODEL 9151 CARD READER OR XDS MODEL (9145 OR 9240) MAGNETIC TAPE UNIT.
- 850686 9-SERIES FORTRAN FREE INTERRUPTS SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW THE USER TO USE LOCATIONS 200-247 FOR INTERRUPTS DURING THE EXECUTION OF A FORTRAN OBJECT PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:136 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER.
- 850687 9-SERIES SEQ. NUMBER ASGNT.+P.T.UPDATING ROUTINES
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SOURCE STATEMENT WITH SEQUENCE NUMBERS TO FACILITATE USE OF THE UPDATING PORTIONS OF THE PROGRAM AND TO PUNCH AN UPDATED VERSION OF THE SOURCE PROGRAM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 4009 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4K MEMORY, PAPER TAPE I/O AND TYPEWRITER.
- 850688 9-SERIES UTILITY AND DEBUG PACKAGE (AID)
AUTHOR: XEROX
ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINE AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:2584 DECIMAL. CONFIGURATION: ANY 900 SERIES XDS COMPUTER WITH A CONSOLE TYPEWRITER.
- 850690 900-SERIES ALGOL 60 EXT'D UNBUF LINE PRN. LIB ROUT.
AUTHOR: XEROX
ABSTRACT:
TO ALLOW USE OF UNBUFFERED LINE PRINTER IN ALGOL SYSTEM. THIS LIBRARY PROGRAM IS LOADED WHEN OUTPUT TO THE LINE PRINTER IS CALLED FOR IN AN ALGOL PROGRAM. OUTPUT TO THE LINE PRINTER IS
COMMENTS:
SOURCE LANGUAGE: METASYMBOL COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).
- 850697 9-SERIES R.T.FORTRAN LOADER PATCH FOR UNBUF.PRINT
AUTHOR: XEROX
ABSTRACT:
TO ALLOW USE OF THE UNBUFFERED LINE PRINTER WITH THE STANDARD REAL-TIME FORTRAN II LOADER.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL. SIZE:3420 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AT LEAST 8K MEMORY AND AN UNBUFFERED LINE PRINTER (XDS MODEL NO. 9372).
- 850698 9-SERIES XDS FORTRAN DEMONSTRATION PROGRAM
AUTHOR: XEROX
ABSTRACT:
INVERTS A 10X10 MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN. SIZE 4000 DECIMAL. CONFIGURATION: ANY XDS COMPUTER WITH A 4K OR GREATER MEMORY.

- 850701 9-SERIES PROGRAM CORRECTION TAPE GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO AUTOMATE MODIFICATION OF OBJECT PROGRAMS.
COMMENTS:
SIZE:447 DECIMAL. CONFIGURATION: ANY XDS 920 OR XDS 910 WITH PAPER TAPE PUNCH AND TYPEWRITER.
- 850704 9-SERIES DRUM, P.T. MEMORY BINARY COPY ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO COPY BINARY INFORMATION FROM MEMORY OR PAPER TAPE TO DRUM AND FROM DRUM TO PAPER TAPE.
COMMENTS:
SIZE:802 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 2K MEMORY AND A DRUM.
- 850705 9-SERIES GENERAL DRUM HANDLER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERAL METHOD OF WRITING AND READING FROM THE DRUM.
COMMENTS:
SIZE:309 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH A XDS MAGNETIC DRUM MEMORY (MODEL 9181).
- 850706 9-SERIES MOSELEY PLOTTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PLOTS AN X-SHAPED CONFIGURATION OF POINTS TO TEST A PLOTTER
COMMENTS:
SIZE: 285 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH MOSELEY PLOTTER.
- 850707 9-SERIES LINK 0 BOOTSTRAP FOR DRUM
AUTHOR: XEROX
ABSTRACT:
TO LOAD LINK 0 FROM DRUM TO MEMORY
COMMENTS:
14 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH 14K MEMORY AND A DRUM.
- 850708 9-SERIES FORTRAN II TYPE SUBR. (LONG CARRIAGE)
AUTHOR: XEROX
ABSTRACT:
TO REPLACE THE STANDARD TYPE SUBROUTINE AND TAKE ADVANTAGE OF THE LONG CARRIAGE (130 CHARACTERS)
TYPEWRITER
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:59 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTERS WITH 4K MEMORY.
- 850710 9-SERIES GAUSSIAN DISTRIBUTION TEST ANALOG INPUTS
AUTHOR: XEROX
ABSTRACT:
ITERATIVELY TESTS ONE OR TWO SETS OF ANALOG INPUTS FOR ERROR DISTRIBUTIONS.
COMMENTS:
DECIMAL 1024. CONFIGURATION: ANY 910/920 WITH ONE OR TWO ANALOG INPUT MULTIPLEX AND CONVERTERS.
- 850740 920 SEISMIC DUMP A AND B FORMATS
AUTHOR: XEROX
ABSTRACT:
XDS 920 SEISMIC TAPE DUMP PROGRAMS FOR 9 TRACK GAPPED OR GAPLESS TAPES WITH A OR B FORMAT. THE OUTPUT
FROM THESE PROGRAMS IS UTILIZED FOR VERIFICATION OF SEISMIC DATA TAPES.
COMMENTS:
FOUR SEISMIC TAPE DUMP PROGRAMS ARE PROVIDED. ONE FOR EACH OF THE INPUT TAPE FORMATS; A FORMAT GAPPED
AFORMAT GAPLESS BFORMAD GAPPED B FORMAT GAPLESS
- 850742 930 DEE-6D SIMULATOR SYSTEM HANDLERS
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SOFTWARE INTERFACE TO THE SYSTEM HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-6D HARDWARE.
- 850754 900-SERIES ADAPT COMPILER
AUTHOR: XEROX
ABSTRACT:
ADAPT IS A SYSTEM FOR THE COMPUTER-ASSISTED PROGRAMMING OF NUMERICALLY CONTROLLED MACHINE TOOLS, FLAME
CUTTERS, DRAFTING MACHINES, AND SIMILAR EQUIPMENT. IT IS PRODUCTION ORIENTED, THAT IS, IT IS WRITTEN TO
SIMPLIFY THE EFFORT, TIME, AND MONEY NEEDED TO TAKE FULL ADVANTAGE OF NUMERICALLY CONTROLLED TECHNIQUES

850754 CONTINUED ON FOLLOWING PAGE

- 850754 ADAPT COMPILER (CONTINUED)
IN ENGINEERING AND MANUFACTURING.
COMMENTS:
SOURCE LANGUAGE: FORTRAN II. CONFIGURATION: ANY XDS 900 SERIES COMPUTER. MONARCH OPERATING SYSTEM CONFIGURATION WITH AT LEAST 16K CORE MEMORY, 3 MAGNETIC TAPES A TYPEWRITER A CARD READER, A LINE PRINTER. (BUFFERED OR UNBUFFERED) AND AN 8-LEVEL PAPER TAPE PUNCH. (OR RAD MONARCH CONFIGURATION).
- 850765 910 910/925 PROGRAM OPERATOR PACKAGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900018, (910/925 PROGRAM OPERATOR TECHNICAL MANUAL)
COMMENTS:
SEE THE TECH MANUAL (900018) FOR THE COMPUTER CONFIGURATION.
- 850803 9-SERIES HIGH SPEED 4 DIGIT BIN TO DEC POP-SELF F
AUTHOR: XEROX
ABSTRACT:
PROVIDES A HIGH SPEED CONVERSION OF FIXED POINT FRACTIONAL BINARY NUMBERS TO BINARY CODED DECIMAL.
COMMENTS:
SIZE: 43 DECIMAL. CONFIGURATION: XDS 910. THIS SUBROUTINES USES OPERATION 04430000 (RIGHT CYCLE ONE AND CLEAR A) WHICH IS NOT A STANDARD OPERATION.
- 850804 9-SERIES HIGH SPEED SIN-COS POP-SELF FILLING
AUTHOR: XEROX
ABSTRACT:
TO SIMULTANEOUSLY COMPUTE BOTH THE SINE AND COSINE OF AN ANGLE WITH 19 BIT ACCURACY.
COMMENTS:
SIZE: 169 DECIMAL. CONFIGURATION: ANY XDS 910.
- 850805 9-SERIES HIGH SPEED ARCTANGENT POP-SELF FILLING
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN A/B TO 19 BIT ACCURACY. A AND B ARE NUMBERS IN THE A AND B REGISTER RESPECTIVELY.
COMMENTS:
SIZE: 162 DECIMAL. CONFIGURATION: ANY XDS 910.
- 850808 9-SERIES 910/925 FORTRAN II SYSTEM (STAND ALONE)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM INCLUDES THE FOLLOWING: TITLES: 910 FORTRAN II COMPILER PERFORMATED TAPE INPUT, 910 FORTRAN II LIBRARY PERFORATED TAPE INPUT, 910 FORTRAN II RUN-TIME PERFORATED TAPE INPUT, AND FORTRAN II LOADER-PAPER TAPE VERSION.
COMMENTS:
SEE MANUAL 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL 900587, 900 SERIES FORTRAN II OPERATIONS MANUAL. SIZE:4096 DECIMAL.
- 850812 9-SERIES 910/925 FORTRAN II MOD. LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
COMMENTS:
SIZE 277 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850813 9-SERIES 910/925 FORTRAN II 3 CONTR CARDS MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850814 9-SERIES 910/925 FORTRAN II 9 CONTR CARDS MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE: 276 DECIMAL. CONFUGURATION: ANY XDS 910 COMPUTER-THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

- 850815 9-SERIES 910/925 F-II HOLLERITH CONSTANT MOD.
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENTS.
COMMENTS:
SIZE: 62 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850818 9-SERIES 910/925 ALGOL 60 BASIC 4K SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: 910/925 COMPUTER WITH AT LEAST 4K MEMORY, TYPEWRITER AND PAPER TAPE I/O. SEE MANUAL NO. 900699.
- 850830 9-SERIES 910/925 R.T. FORTRAN II (S/A) SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A REAL-TIME FORTRAN II SYSTEM FOR THE 900 SERIES COMPUTERS. THE COMPILER, LOADER, AND RUN-TIME ARE ALL DISTRIBUTED ON A SINGLE ABSOLUTE BINARY PAPER TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL, META-SYMBOL. SIZE 8000 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH AT LEAST 8000 WORDS OF MEMORY. SEE MANUALS 901048, 900003, AND 900587. THIS PROGRAM INCLUDES THE R.T. FORTRAN II COMPILER, LOADER AND RUN-TIME.
- 850831 9-SERIES XDS PINT 910-BUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.
- 850832 9-SERIES XDS 910 PINT-UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO. 901023, XDS PINT REFERENCE MANUAL.
- 850833 9-SERIES XDS 910/925 FORTRAN II FORMAT STATEMENTS
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 39 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850835 9-SERIES 910/925 FORTRAN II CARD INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
COMMENTS:
SIZE: 10 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850836 9-SERIES 910/925 FORTRAN II CARD PUNCH TAPE MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.
COMMENTS:
SIZE 71 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH CARD READER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850837 9-SERIES 910/925 FORTRAN II CARD OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 180 DECIMAL. CONFIGURATION: ANY 910/925 COMPUTER WITH CARD PUNCH. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.

- 850841 9-SERIES 910/925 FORTRAN II MAG TAPE OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.
COMMENTS:
SIZE 371 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850842 9-SERIES 910/925 F-II M.T. PAPER TAPE OUTPUT MOD
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.
COMMENTS:
ASSEMBLY LANGUAGE USED: SYMBOL 8. SIZE 442 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC TAPE UNIT. THIS MODIFICATION IS APPLICABLE ONLY TO THE STANDALONE FORTRAN II SYSTEM.
- 850848 9-SERIES 910/925 SORT MERGE (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 850849 (910/925 SORT) AND 850850 (910/925 MERGE). IT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR 910/925 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS. SEE XDS REFERENCE MANUAL 90097 FOR DESCRIPTION OF USE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.
- 850857 9-SERIES 910/925 FORTRAN II BUFFERED PRT. MOD.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
COMMENTS:
SIZE:53 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850858 9-SERIES 910/925 FORTRAN II FAST LISTING MOD.
AUTHOR: XEROX
ABSTRACT:
TO IMPROVE THE SPEED WHEN LISTING FORTRAN SOURCE PROGRAMS DURING COMPILATION.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE:4 DECIMAL. CONFIGURATION: ANY XDS 910/925 WITH A LINE PRINTER. THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850859 9-SERIES 910/925 FORTRAN II UNBUFFERED PRTR.MOD.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
COMMENTS:
SIZE 124 DECIMAL. CONFIGURATION: ANY XDS 910/925 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850862 9-SERIES 910 FORTRAN DRUM LINKING SYSTEM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE STANDARD 910 FORTRAN SYSTEM WITH THE DRUM LINKING CAPABILITY.
COMMENTS:
CONFIGURATION: ANY 910 COMPUTER WITH 4K OF MEMORY AND A DRUM (XDS 9161).
- 850864 9-SERIES FORTRAN II DRUM READ/WRITE MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE:33 DECIMAL. CONFIGURATION: ANY XDS 910 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161). THIS MODIFICATION IS APPLICABLE ONLY TO THE STAND-ALONE FORTRAN II SYSTEM.
- 850914 9-SERIES LINEAR INTERPOLATION-I INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHTLINE INTERPOLATION IN A TABLE OF X, F(X) PAIRS, WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 23 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.

- 850915 9-SERIES LINEAR INTERPOLATION-2 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS, X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X, Y, F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 74 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY 920/930.
- 850918 9-SERIES LINEAR INTERPOLATION-3 INDEPENDENT VARI
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS, X, Y, AND Z, BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y, Z F (X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE 135 DECIMAL. SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 920/930.
- 850919 920 920/930 PROGRAMMED OPERATOR PACKAGE
AUTHOR: XEROX
ABSTRACT:
THIS PACKAGE INCLUDES THE ENTIRE PROGRAM OPERATOR PACKAGE (POP) DESCRIBED IN TECHNICAL MANUAL 900020. (920/930 PROGRAM OPERATOR TECHNICAL MANUAL).
COMMENTS:
SEE THE TECH MANUAL (900020) FOR THE COMPUTER CONFIGURATION.
- 850957 9-SERIES 920/930 FORTRAN II SYSTEM (STAND ALONE)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE STAND-ALONE 920/930 FORTRAN-II PACKAGE CONSISTING OF COMPILER, LOADER AND RUN-TIME/LIBRARY
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 4096 DECIMAL. THIS PROGRAM COVERS 850958, 850959, 850960. SEE MANUALS 900587, 900 SERIES FORTRAN II OPERATIONS, 900003, 900 SERIES FORTRAN II REFERENCE MANUAL AND 901048, 900 SERIES FORTRAN II TECHNICAL MANUAL. CONFIGURATION: ANY 920/930 COMPUTER.
- 850963 9-SERIES FORTRAN II FORMATS-AT RUN-TIME MOD.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THREE NEW WAYS OF SPECIFYING FORMAT STATEMENTS.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 39 DECIMAL. CONFIGURATION: ANY 920 /930 COMPUTER.
- 850964 9-SERIES FORTRAN-9 CONTINUATION CARD MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF UP TO NINE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE: 190 DECIMAL. ANY 920/930 COMPUTER.
- 850965 9-SERIES FORTRAN II MODIFICATION LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD MODIFICATIONS TO THE FORTRAN II COMPILER.
COMMENTS:
SIZE: 277 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.
- 850966 9-SERIES FORTRAN-3 CONTINUATION CARD MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS NO MORE THAN THREE CONTINUATION CARDS IN A FORTRAN PROGRAM.
COMMENTS:
ANY 920/930 COMPUTER.
- 850967 9-SERIES FORTRAN HOLLERITH LITERALS MODIFICATION
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF HOLLERITH CONSTANTS IN FORTRAN STATEMENT.
COMMENTS:
SIZE: 50 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER.
- 850968 9-SERIES GO MO KU
AUTHOR: XEROX
ABSTRACT:
GO MO KU IS A SELF-CONTAINED COMPUTER PROGRAM WHICH ENABLES THE COMPUTER TO PLAY GO MO KU (5 IN A ROW).

850968 CONTINUED ON FOLLOWING PAGE

- 850968 GO MO KU (CONTINUED)
THE RULES OF THE GAME ARE BEST DESCRIBED BY COMPARING IT WITH TIC-TAC-TOE. IF TICTAC-TOE IS DEFINED AS A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 3 IN A ROW ON A 3 BY 3 BOARD, THEN GO MO KU IS A GAME IN WHICH THE OBJECT IS FOR A PLAYER TO GET 5 IN A ROW ON A 15 BY 15 BOARD.
COMMENTS:
SIZE:4096 DECIMAL. CONFIGURATION: 4K XDS 920.
- 850970 9-SERIES 920/930 ALGOL 60 BASIC 4K SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO COMPILE, LOAD AND EXECUTE ALGOL PROGRAMS FROM A FREE STANDING SYSTEM.
COMMENTS:
THIS IS THE STAND-ALONE ALGOL SYSTEM CONSISTING OF COMPILER, LOADER AND LIBRARY/RUNTIME.
- 850984 9-SERIES 920/930 REAL TIME FORTRAN II (COVER)
AUTHOR: XEROX
ABSTRACT:
FORTRAN II SYSTEM IS A COMPLETE PACKAGE FOR COMPILING,LOADING, AND EXECUTING FORTRAN II PROGRAMS.
COMMENTS:
SEE MANUAL NO. 901048:920/930 REAL TIME FORTRAN II TECHNICAL MANUAL,MANUAL NO.900003: 900 SERIES FORTRAN II REFERENCE MANUAL AND MANUAL NO. 900587: 900 SERIES FORTRAN II OPERATIONS MANUAL.
- 850985 9-SERIES PINT 920/930 BUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH A BUFFERED LINE PRINTER.
COMMENTS:
SEE MANUAL NO.901023, XDS REFERENCE MANUAL.
- 850986 9-SERIES PINT 920/930 UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
XDS VERSION OF THE PURDUE INTERPRETER. THIS SYSTEM OPERATES WITH AN UNBUFFERED LINE PRINTER (9372).
COMMENTS:
SEE MANUAL NO.901023,XDS REFERENCE MANUAL.
- 850989 9-SERIES 920/930 FORT II CARD/PAPER TAPE INPT MOD
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM EITHER THE CARD READER OR PAPER TAPE READER UNDER BREAKPOINT CONTROL.
COMMENTS:
SIZE 57 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.
- 850990 9-SERIES 920/930 FORTRAN II CARD INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO INPUT FORTRAN SOURCE PROGRAMS FROM THE CARD READER.
COMMENTS:
SIZE: 8 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD READER.
- 850991 9-SERIES 920/930 FORTRAN II CARD OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO PUNCH COMPILED FORTRAN PROGRAMS ON CARDS.
COMMENTS:
SOURCE LANGUAGE:META/SYMBOL. SIZE: 120 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH CARD PUNCH.
- 850992 9-SERIES 920/930 FORTRAN II MAG TAPE INPUT MOD.
AUTHOR: XEROX
ABSTRACT:
THIS MODIFICATION TO THE XDS 920 FORTRAN II COMPILER REPLACES THE PAPER TAPE INPUT CODING WITH CODING TO INPUT SOURCE CARD IMAGES FROM MAGNETIC TAPE, LOGICAL, UNIT NO. 2.
COMMENTS:
SIZE 133 DECIMAL. CONFIGURATION: ANY 920 COMPUTER WITH A MAGNETIC TAPE UNIT.
- 850997 9-SERIES 920/930 FORT II MAG TPE/PAPER TPE OUTPUT
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT COMPILED FORTRAN PROGRAMS ON EITHER MAGNETIC TAPE OR PAPER TAPE UNDER BREAKPOINT CONTROL.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 282 DECIMAL. CONFIGURATION ANY 9.0/930 COMPUTER WITH A MAGNETIC TAPE UNIT.

- 850998 9-SERIES 920/930 FORTRAN II MAG TAPE OUTPUT MOD.
AUTHOR: XEROX
ABSTRACT:
TO WRITE A COMPILED FORTRAN PROGRAM ON MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 238 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH A MAGNETIC TAPE
- 851008 9-SERIES 920/930 SORT MERGE (COVER)
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS NUMBER COVERS CATALOG NUMBERS 851007 (920/930 SORT) AND 851008 (920/930 MERGE). IT PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR 920/930 SYSTEMS. IT IS CONTROL-CARD DRIVEN AND AVAILABLE ON CARDS. SEE XDS REFERENCE MANUAL 900997 FOR DESCRIPTION OF USE.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
SOURCE LANGUAGE IS METASYMBOL. REQUIRES 8K WORDS FOR FULL CAPACITY VERSION UNDER MONARCH, THREE TAPE UNITS, ONE CARD READER, AND ONE TYPEWRITER.
- 851010 9-SERIES PAYROLL GENERATOR
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED ON AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE. THIS PROGRAM WORKS ONLY UNDER MANAGE.
- 851012 9-SERIES BUFFERED LINE PRINTER TRACE
AUTHOR: XEROX
ABSTRACT:
TO ALLOW EXECUTION OF ALMOST ALL OBJECT PROGRAM INSTRUCTIONS AND PRODUCE A LINE PRINTER LISTING OF THE DESIRED INSTRUCTIONS IN SEQUENCE OF THEIR EXECUTION ALONG WITH THE INTERMEDIATE RESULTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 544 DECIMAL. CONFIGURATION: ANY 920 OR 930 WITH LINE PRINTER. RELOCATABLE BINARY CARDS ALSO AVAILABLE ON 930 RAD MONARCH SYSTEM
- 851014 9-SERIES 920/930 RTF II INBUF. PRT. COMPILER MOD
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN UNBUFFERED PRINTER CAPABILITY FOR THE 920/930 REAL TIME FORTRAN II COMPILER.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 84 DECIMAL. CONFIGURATION ANY 920/930 COMPUTER WITH 8K (OR MORE) MEMORY AND A MODEL 9372 UNBUFFERED PRINTER ON CHANNEL A.
- 851015 9-SERIES FORTRAN BUFFERED PRINTER MODIFICATION
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE BUFFERED LINE PRINTER.
COMMENTS:
SIZE: 43 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A BUFFERED PRINTER (XDS MODEL NO. 9173).
- 851017 9-SERIES 920/930 FORTRAN II COMPILER UNBUF. PRT.
AUTHOR: XEROX
ABSTRACT:
TO LIST FORTRAN SOURCE PROGRAMS ON THE UNBUFFERED LINE PRINTER.
COMMENTS:
SIZE: 80 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH AN UNBUFFERED PRINTER (XDS MODEL NO. 9372).
- 851019 9-SERIES 92 SIMULATOR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FUTURE 92 USER WITH THE FACILITY TO DEBUG HIS 92 PROGRAMS PRIOR TO TAKING DELIVERY OF HIS MACHINE. A COMPLETE SET OF DEBUGGING AIDS IS INCLUDED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 6844 DECIMAL. CONFIGURATION. ANY 920 WITH A TYPEWRITER AND WITH AT LEAST 8K MEMORY. A LINE PRINTER IS REQUIRED FOR TRACE AND DUMP OPTIONS.
- 851028 9-SERIES FORTRAN DRUM READ/WRITE STATEMENTS
AUTHOR: XEROX
ABSTRACT:
ALLOWS THE USE OF DRUM READ/WRITE STATEMENTS IN A FORTRAN PROGRAM.
COMMENTS:
SIZE 27 DECIMAL. CONFIGURATION: ANY 920/930 COMPUTER WITH A MAGNETIC DRUM MEMORY (XDS MODEL 9161).

- 851027 920 JPL TCP ANALOG EQUIPMENT DEMONSTRATION
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO DEMONSTRATE AND CALIBRATE THE JPL TCP ANALOG EQUIPMENT EXPANSION KITS.
- 851047 9-SERIES DOUBLE PRECISION FLOATING POINT POP
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPERATION OF FLOATING POINT INSTRUCTIONS ON THE XDS 930.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 233 DECIMAL. CONFIGURATION: ANY XDS 930 COMPUTER.
- 851064 930 HYBRID EXEC. LIB. FOR AEROSPACE CORP.
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A LIBRARY OF INTERCONNECTED SUBROUTINES WHICH ENABLES THE USER TO CONTROL HYBRID SYSTEM HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META/SYMBOL. SIZE: 3865. CONFIGURATION: 900 SERIES REAL-TIME MONITOR CONFIGURATION.
- 851106 9-SERIES PAPER TAPE - TYPEWRITER HANDLER 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 337 DECIMAL. CONFIGURATION: ANY 925/930 WITH A TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.
- 851108 9-SERIES 925/930 CARD PUNCH AND VERIFY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COPY CARD IMAGES ON TAPE, AND TO REPRODUCE OR VERIFY THOSE IMAGES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 535 DECIMAL. CONFIGURATION: ANY 925/930, 9158 CARD PUNCH, CHANNEL W, CARD READER, MAG TAPE.
- 851109 9-SERIES CARD READ SUBROUTINE (CDR)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 134 DECIMAL. CONFIGURATION: ANY 925/930 WITH A CARD READER ATTACHED TO AN INTERLACED CHANNEL.
- 851112 9-SERIES MAGNETIC TAPE HANDLER (EXTENDED MODE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL. CONFIGURATION: ANY XDS 925/930 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-H.
- 851116 9-SERIES DSC-I DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-I TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851121 925 925/930 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 260 OCTAL WORDS. CONFIGURATION: ANY XDS 925 OR 930 WITH A BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.

- 851131 900-SERIES SNAPSHOT SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL PERFORM SNAPSHOT AT SELECTED POINTS IN CORE. SNAPSHOT IS CALLED AS A SUBROUTINE. SNAPSHOT WILL ALSO INSERT CORRECTIONS IN CORE. EACH SNAPSHOT PRINTS THE P,A,B,X REGISTERS ALONG WITH THE BLOCK LIST SPECIFIED. INPUT PARAMETERS ARE READ FROM THE CARD READER. ILLEGAL CONTROL CARDS ARE PRINTED ON THE TYPEWRITER.
COMMENTS:
COMPUTER CONFIGURATION REQUIRED: ANY 910,920,925,930 COMPUTER WITH A CARD READER, PRINTER AND TYPEWRITER. THIS RELOCATABLE PROGRAM REQUIRES 571 OCTAL LOCATIONS.
- 851143 900-SERIES UTILITY PACKAGE
AUTHOR: XEROX
ABSTRACT:
PROVIDES ALL ASPECTS OF MAGNETIC TAPE PROCESSING RELATED TO UTILITY USAGE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CON: ANY XDS 900 SERIES COMPUTER WITH 8K MEMORY, TYPEWRITER, TWO MAG TAPES AND CARD READER.
- 851144 900-SERIES LIST TAPE ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL LIST A SYMBOLIC TAPE OF UP TO 33 WORDS PER RECORD AT THE I/O DEVICE SPEED. THREE OPTIONS ARE PROVIDED VIA BREAKPOINT SWITCHES LISTING THE FIRST 25 RECORDS OR ALL RECORDS IN A FILE HALTING ON AN EOF ACCEPTING OR IGNORING A RECORD WHEN A READ ERROR OCCURS
COMMENTS:
COMPUTER CONFIGURATION: ANY 910,925,920,930 COMPUTER WITH A CARD READER, PRINTER, MAGNETIC TAPE, INTERLACE CONTROL AND TYPEWRITER. THE PROGRAM IS LOADED BY THE STANDARD LOAD PROCEDURES FOR A BINARY PROGRAM
- 851145 910 15 KC MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS INTENDED TO EXERCISE 15 KC MAGNETIC TAPE UNITS SUCH AS THE 9146. THE TAPE UNIT MUST BE ATTACHED TO THE Y BUFFER. A TYPEWRITER MUST BE CONNECTED TO THE W BUFFER.
COMMENTS:
THIS PROGRAM WILL WORK WITH ANY XDS 900 SERIES COMPUTER. THE PROGRAM OPERATES IN EITHER THE PROGRAM CONTROL MODE OR THE INTERLACE CONTROL MODE. THE Y BUFFER INTERRUPTS ARE UTILIZED BY THE PROGRAM.
- 851149 92 LN-FLOATING-POINT NATURAL LOGARITHM
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS EXPONENTIAL (BASE E)
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 133 DECIMAL. CONFIGURATION: ANY XDS 92.
- 851150 92 SIN/COS-FLOATING-POINT SINE-COSINE SUBR.
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR (LOCATIONS 1-3) BY ITS SINE OR COSINE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 178 DECIMAL. CONFIGURATION: ANY XDS 92.
- 851151 92 ATAN-FLOATING-POINT ARCTANGENT SUBR.
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED NORMALIZED FLOATING-POINT ARGUMENTS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 246 DECIMAL. CONFIGURATION: ANY XDS 92.
- 851158 92 92 SYMBOL
AUTHOR: XEROX
ABSTRACT:
TO ASSEMBLE SOURCE LANGUAGE PROGRAMS WRITTEN IN THE XDS 92 SYMBOL ASSEMBLY LANGUAGE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 4098 DECIMAL. CONFIGURATION: ANY XDS 92 WITH AT LEAST 4K MEMORY.
- 851159 92 PAPER TAPE+TYPEWRITER SUBROUTINE(PTY10)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A PAPER TAPE READER OR CONSOLE TYPEWRITER AND TRANSMITTING DATA TO A PAPER TAPE PUNCH OR CONSOLE TYPEWRITER AND PERFORMING THESE FUNCTIONS IN

851159 CONTINUED ON FOLLOWING PAGE

- 851159 PAPER TAPE+TYPEWRITER SUBROUTINE(PTY10) (CONTINUED)
EITHER BCD OR BINARY MODE. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 278 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE READER,
A PAPER TAPE PUNCH,OR A CONSOLE TYPEWRITER ATTACHED TO THE I/O CHANNEL.
- 851160 92 BINARY PAPER TAPE RELOCATING BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM
OUTPUT BY 92 SYMBOL EXCEPT ONE CONTINING AN EXTERNAL REFERENCE/DEFINITION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 306 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.
- 851161 92 BINARY PAPER TAPE BOOTSTRAP LOADER
AUTHOR: XEROX
ABSTRACT:
TO RELOCATE INTO UPPER MEMORY BINARY PAPER TAPE OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND
RELOCATE ANY OBJECT PROGRAM OUTPUT BY 92 SYMBOL EXCEPT ON CONTAINING AN EXTERNAL REFERENCE/DEFINITION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 302 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.
- 851162 92 UNIVERSAL BINARY LOADER (QUBLDR)
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS INTO MAIN (CORE) MEMORY FOR EXECUTION. PROGRAMS TO BE LOADED MUST BE
PRESENTED TO THE LOADER IN THE OBJECT PROGRAM FORMAT EMPLOYED BY XDS 92 SYMBOL.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 803 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A PAPER TAPE
READER AND TYPEWRITER. THE LOADER IS AVAILABLE ON PAPER TAPE BUT CAN LOAD PROGRAMS WHICH EXIST EITHER ON
PUNCHED CARDS OR PAPER TAPE.
- 851163 92 BINARY PAPER TAPE RELOCATING UPPER LOADE
AUTHOR: XEROX
ABSTRACT:
TO LOAD BINARY PAPER TAPES OUTPUT FROM 92 SYMBOL. THIS LOADER WILL LOAD AND RELOCATE ANY OBJECT PROGRAM
OUTPUT BY 92 SYMBOL EXCEPT ONE CONTAINING AN EXTERNAL REFERENCE/ DEFINITION. THIS LOADER DIFFERS FROM
CATALOG NO. 851160, IN THAT IT RESIDES IN UPPER MEMORY (THE LAST 278 LOCATIONS) AND ONCE LOADER, DOES
NOT USE ANY LOWER MEMORY OTHER THAN SCRATCHPAD (0-31).
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 278 DECIMAL. CONFIGURATION: ANY XDS 92 WITH PAPER TAPE READER.
- 851167 92 CARD READ HANDLER (CDR)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING 80-COLUMN CARDS PUNCHED IN EITHER BCD (HOLLERITH
CODED) OR BINARY FORMAT. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 128 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A CARD READER,
ATTACHED TO THE I/O CHANNEL.
- 851169 92 MAGNETIC TAPE SUBROUTINE (MTAPE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING AND/OR WRITING VARIABLE LENGTH RECORDS IN EITHER BCD
OR BINARY MODES. BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A MAGNETIC TAPE UNIT, ATTACHED TO THE
I/O CHANNEL AT 200, 556, OR 800 BPI DENSITY.
- 851178 92 MEMORY TO LINE PRINTER OCTAL DUMP
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
COMMENTS:
SIZE 80 DECIMAL. CONFIGURATION: ANY XDS 92 WITH LINE PRINTER AND PAPER TAPE OR CARD READER.
- 851177 92 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT
CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE 184 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH A LINE BUFFERED
PRINTER, ATTACHED TO THE I/O CHANNEL.

- 851178 92 MOD. 9372 UNBUF. LINE PRINTER.SUBR.(PRIN)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL. THE BUFFER INTERRUPTS MUST BE DISABLED BEFORE ENTERING THIS SUBROUTINE.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 466 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.
- 851188 92 92 BASIC UTILITY PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 92.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 840 DECIMAL WORDS. CONFIGURATION: ANY XDS 9300 COMPUTER.
- 851220 900-SERIES MANAGE SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
XDS MANAGE IS A GENERALIZED FILE MANAGEMENT SYSTEM EXPRESSLY DESIGNED TO AID CORPORATE DECISION MAKING. IT PROVIDES A SIMPLIFIED METHOD FOR USING A COMPUTER TO ESTABLISH AND MAINTAIN VITAL COMPANY RECORDS ON MAGNETIC TAPE, SELECTIVELY RETRIEVE DATA FROM THOSE RECORDS, AND GENERATE PRINTED REPORTS OF THE DATA WHEN REQUESTED.
- 851257 900-SERIES 925/930 RTH STAND-ALONE UPDATE
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE IS USED TO UPDATE 925/930 RTH SYSGEN TAPES.
COMMENTS:
SOURCE LANGUAGE: METASYMBOL, CONFIGURATION: XDS 925/930 WITH 8K MEMORY (MINIMUM).
- 851258 910 910/925 MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION
COMMENTS:
ANY XDS 910/925 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, AND UNBUFFERED PRINTER.
- 851259 920 920/930 MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 920/930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, AND UNBUFFERED PRINTER.
- 851280 925 925 RAD MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 925 WITH AT LEAST 8K WORDS OF STORAGE CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9367 DISC FILE, AND UNBUFFERED PRINTER.
- 851281 930 930 RAD MONARCH FOR UNBUFFERED PRINTER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
ANY XDS 930 WITH AT LEAST 8K WORDS OF STORAGE, CONSOLE TYPEWRITER, ONE OR MORE MAG TAPES, 9367 DISC FILE, AND UNBUFFERED PRINTER.
- 851290 9-SERIES MONARCH MPRNT (UNBUF)
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTER.

- 851291 9-SERIES MONARCH PRINT (UNBUF)
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL MESSAGES AND ERROR MESSAGES ON UNBUFFERED LINE PRINTERS.
- 851292 9-SERIES MONARCH CDRP
AUTHOR: XEROX
ABSTRACT:
TO OBTAIN A BINARY CARD IMAGE FROM CARD READER.
- 851293 9-SERIES MONARCH PTYIO
AUTHOR: XEROX
ABSTRACT:
TO OBTAIN CONTROL MESSAGE RECORDS FROM A PAPER-TAPE READER OR A TYPEWRITER AND TO TYPE CONTROL MESSAGES AND ERROR MESSAGES ON TYPEWRITER.
- 851294 9-SERIES MONARCH MTAPE
AUTHOR: XEROX
ABSTRACT:
TO PERFORM MAGNETIC TAPE INPUT AND OUTPUT FUNCTIONS REQUESTED BY THE MONARCH CONTROL AND ACTION ROUTINES.
- 851295 9-SERIES MONARCH PRINT
AUTHOR: XEROX
ABSTRACT:
TO PRINT CONTROL AND ERROR MESSAGES ON LINE PRINTER.
- 851299 930 EXT.I/O TEST (NAV.TOR.STA.SYS.,ADD-ON)
AUTHOR:S. GOOD
ABSTRACT:
THIS PROGRAM EXERCISES THE 12 EXTERNAL INPUTS (PIN) AND THE 12 EXTERNAL OUTPUTS (POT) OF THE NAVAL TORPEDO STATION SYSTEM (ADD-ON).
COMMENTS:
IN THE 'POT' MODE, THE OPERATOR TYPES IN THE OCTAL VALUE TO BE OUTPUT AND THIS VALUE IS SEQUENTIALLY 'POTTED' BY ALL OF THE 12 EXTERNAL OUTPUTS. IN THE 'PIN' MODE, THE VALUE OF EACH OF THE 12 EXTERNAL INPUTS IS SEQUENTIALLY TYPED, IN OCTAL.
- 851300 900-SERIES 925/930 FORTRAN IV LIBRARY
AUTHOR:XEROX
ABSTRACT:
THIS PROGRAM IS A COVER NUMBER FOR THE COMPLETE FORTRAN IV LIBRARY. IT INCLUDES CATALOG NUMBERS 851301 THROUGH 851488.
- 851500 900-SERIES 925/930 REAL-TIME MONITOR
AUTHOR:XEROX
ABSTRACT:
THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATION IN A REENTRANT, ONLINE REAL TIME MODE WILL NOT RUN ON 910/920. FOR REDUCTION.
COMMENTS:
THIS PROGRAM COVERS CATALOG NUMBERS 851502 THRU 851578, THE -85 ELEMENT CONTAINS: REAL TIME MONITOR SYMBOL ASSEMBLER, REAL TIME FORTRAN IV COMPILER, AND REAL TIME FORTRAN IV LIBRARY.
- 851579 930 ARRAYS PROGRAM FOR NAVAL TORPEDO STATION
AUTHOR: XEROX
ABSTRACT:
TO TEST THE INPUT HARDWARE THAT SAMPLES THE ARRAYS.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. COMPUTER CONFIGURATION:NAVAL TORPEDO STATION SYSTEM (ADD-ON) (930)
- 851583 900-SERIES 900 SERIES FORTRAN IV COMPILER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM ALLOWS COMPILATION ON ANY 900 SERIES MACHINE OF PROGRAMS WRITTEN IN XDS FORTRAN IV, WITH THE EXCEPTION OF THOSE STATEMENTS AS NOTED IN THE XDS FORTRAN IV REF MANUAL AND APPLICABLE NSS MEMOS.
COMMENTS:
ITS LIMITATIONS ARE DESCRIBED IN 851500-11 BUT NO OTHER FORMAL DOCUMENTATION EXISTS.

- 851586 92 FLN -FLOATING NEGATE SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO NEGATE A FLOATING-POINT NUMBER IN THE PSEUDO ACCUMULATOR
- 851587 92 FLOAT -FIXED TO FLOATING SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO FLOAT A FIXED-POINT TWO'S COMPLEMENT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING IN THE B REGISTER TO A FLOATING POINT NUMBER IN THE PSEUDO-ACCUMULATOR.
- 851588 92 FIX -FLOATING TO A FIXED SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR TO A TWO'S COMPLEMENT FIXED POINT INTEGER IN LOCATIONS 2 AND 3, WITH TWO'S COMPLEMENT BINARY SCALING SPECIFIED IN THE B REGISTER.
- 851589 92 DVASIM -SIMULATED DVA INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL DVA INSTRUCTION WHEN A DVA TRAP OCCURS
- 851590 92 DVBSIM -SIMULATED DVB INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL DVB INSTRUCTION WHEN A DVB TRAP OCCURS
- 851591 92 MUASIM -SIMULATED MUA INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL MUA INSTRUCTION WHEN AN MUA TRAP OCCURS
- 851592 92 MUBSIM -SIMULATED MUB INSTRUCTION
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE OPTIONAL MUB INSTRUCTION WHEN AN MUB TRAP OCCURS
- 851593 92 NORMZ -FLOATING NORMALIZE SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO NORMALIZE A FLOATING-POINT NUMBER IN THE PSEUDO-ACCUMULATOR
- 851594 92 SQRT -FLOATING-POINT SQUARE ROOT SUBRT.
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS SQUARE ROOT
- 851595 92 EFFADR -EFFECTIVE ADDRESS ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO DETERMINE THE EFFECTIVE ADDRESS OF AN INSTRUCTION. THE EFFECTIVE ADDRESS IS PLACED IN BITS 9-11 OF LOCATION 20 AND IN LOCATION 21
- 851596 92 EXP -FLOATING POINT EXPONENTIAL
AUTHOR: XEROX
ABSTRACT:
TO REPLACE A NORMALIZED FLOATING-POINT NUMBER IN THE PSEUDOACCUMULATOR BY ITS EXPONENTIAL
- 851597 92 FLOATING POINT ARITHMETIC PKGE, FLPT92
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE FLOATING-POINT CAPABILITY FOR XDS 92. THE FLOATINGPOINT PACKAGE CONSISTS OF: FLA - FLOATING ADD FLS - FLOATING SUBTRACT FLH - FLOATING MULTIPLY FLD - FLOATING DIVIDE LDT - LOAD TRIPLE PRECISION NORMZ - NORMALIZE FLOATING POINT NO. (SEE CAT. NO. 703008)

- 851598 900-SERIES 910 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
910 SYMBOL 4 IS DESIGNED TO RUN ON A XDS 910 WITH 4096 WORDS OF MEMORY, A TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.
- 851599 900-SERIES 910 SYMBOL 4 BUF. LINE PRINTER MOD.
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.
- 851600 900-SERIES 910 SYMBOL 4 UNBUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT THE LIST OUTPUT IN SYMBOL FROM THE TYPEWRITER TO THE 9170 LINE PRINTER.
- 851601 900-SERIES 910 SYMBOL 4 TABLE PRINTER
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL 4 ASSEMBLER.
- 851602 900-SERIES 910/920 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 910/920 WITH 4096 WORDS OF MEMORY, TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.
- 851603 900-SERIES 910/920 SYMBOL 4 UNBUF. PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.
- 851604 900-SERIES 920 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.
- 851605 900-SERIES 920 SYMBOL 4 BUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.
- 851606 900-SERIES 920 SYMBOL 4 UNBUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.
- 851607 900-SERIES 920 SYMBOL 4 TABLE PRINTER
AUTHOR: XEROX
ABSTRACT:
TO LIST THE SYMBOL TABLE AFTER PASS 2 OF THE SYMBOL ASSEMBLER.
- 851608 900-SERIES 920/910 SYMBOL 4
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/910 WITH 4096 WORDS OF MEMORY TYPEWRITER, AND PAPER TAPE INPUT/OUTPUT.
- 851609 900-SERIES 920/910 SYMBOL 4 BUF. LINE PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL TO OUTPUT ON THE 9173 LINE PRINTER INSTEAD OF THE TYPEWRITER.
- 851610 900-SERIES 920/910 SYMBOL 4 UNBUF. PRINTER MOD
AUTHOR: XEROX
ABSTRACT:
TO CONVERT SYMBOL 4 TO OUTPUT ON THE 9170 LINE PRINTER INSTEAD OF THE TYPEWRITER.

- 851811 900-SERIES 920/930 SYMBOL 8 BUF. PRINTER VERSION
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/930 WITH 6K-16K MEMORY, 9173 LINE PRINTER, PAPE TAPE INPUT.
- 851812 900-SERIES 920/930 SYMBOL 8 UNBUF. PRINTER VERSION
AUTHOR: XEROX
ABSTRACT:
CONFIGURATION: XDS 920/930 WITH 6K-16K MEMORY, 9170 LINE PRINTER, PAPER TAPE INPUT.
- 851813 9-SERIES 1-CARD DUMP PUNCH PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PUNCH OUT A 1-CARD DUMP FOR A CARD-READER ON ANY CHANNEL AND/OR TO PUNCH OUT THE SAME DUMP PROGRAM ON A PAPER TAPE STATION ATTACHED TO ANY CHANNEL. THE DUMP ITSELF MAY BE PLACED ON A PRINTER ATTACHED TO ANY CHANNEL.
COMMENTS:
COMPUTER CONFIGURATION: ANY 9-SERIES COMPUTER WITH META-SYMBOL ON THE SYSTEM
- 851814 9-SERIES RAD TO MAGNETIC TAPE DUMP
AUTHOR: XEROX
ABSTRACT:
RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2 MILLION, 1 MILLION OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.
- 852000 9-SERIES 9-SERIES SOFTWARE NOTES COVER
AUTHOR: XEROX CORPORATION
ABSTRACT:
THIS CATALOG NUMBER EXISTS FOR THE SOLE PURPOSE OF IMPLEMENTING THE 9-SERIES TECHNICAL NOTE CONCEPT WHICH IS DESCRIBED IN THE -11. IT IS EFFECTIVELY A REFERENCE COVER NUMBER FOR ALL 9-SERIES SOFTWARE (INCLUDING USER'S GROUP ITEMS) BUT HAS NO ORDERABLE ELEMENTS OTHER THAN THE PROGRAM DESCRIPTION (-11).
COMMENTS:
SUBSCRIPTIONS TO THE TECHNICAL NOTE SYSTEM ARE AVAILABLE BUT MUST BE PROCESSED THROUGH THE USERS' GROUP.
- 860000 9300 TAPE MONITOR SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE EFFICIENT SYSTEM OPERATIONS WITH MINIMUM OPERATOR INTERVENTION AND AN EASY-TO-USE INPUT/ OUTPUT FACILITY HAVING MAXIMUM EFFICIENCY WHILE TAKING INTO ACCOUNT THE NEEDS OF THE USER'S PROGRAM (I/O OPERATIONS ARE PERFORMED SIMULTANEOUSLY WITH THE USER'S PROGRAM). THE RESIDENT MONITOR REQUIRES 11853 OCTAL LOCATIONS WITH THE PROCESSORS BEING OVERLAYED ('PING-PONGED') ABOVE THIS LOCATION.
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 860001 THRU 860006, 860008 THRU 860031, 861080, AND 861081.
- 860035 9300 FORT IV COMPILER AND LIBRARIES
AUTHOR: XEROX
COMMENTS:
THIS PROGRAM INCLUDES CATALOG NUMBERS 860038 THRU 860074 AND COVER NUMBERS 860095 AND 860265.
- 860075 9300 META-SYMBOL ASSEMBLER-COVER
AUTHOR: XEROX
ABSTRACT:
THE PRIMARY PURPOSE OF THE META-SYMBOL ASSEMBLY SYSTEM IS TO PROVIDE USER'S OF XDS COMPUTERS A PROCESSOR CAPABLE OF TRANSLATING SYMBOLIC LINES OF CODE (WRITTEN IN AN ADVANCED ASSEMBLY LANGUAGE) TO MACHINE LANGUAGE AND TO PROVIDE THE USER A LISTING OF THE MACHINE LANGUAGE GENERATED AS WELL AS A LOADABLE PROGRAM TAPE OR DECK.
COMMENTS:
ANY XDS 9300 WITH A MINIMUM OF 8K MEMORY. SEE MANUAL NO. 900927: META-SYMBOL TECHNICAL MANUAL FOR A MORE DETAILED DESCRIPTION OF THE COMPUTER REQUIREMENTS
- 860095 9300 FORTRAN IV LIBRARY
AUTHOR: XEROX
COMMENTS:
THIS IS A PROGRAM PACKAGE CONTAINING ALL THE FORTRAN IV LIBRARY ROUTINES. ABSOLUTE BINARY CARDS ARE AVAILABLE ON MAG TAPE (860000-95), RELOCATABLE BINARY CARDS AVAILABLE ON MAG TAPE (860000-25).
- 860265 9300 REAL-TIME FORTRAN IV LIBRARY
AUTHOR: XEROX
COMMENTS:
THIS IS THE COVER NUMBER FOR THE REAL TIME FORTRAN IV LIBRARY. ABSOLUTE BINARY CARDS ARE AVAILABLE ON 860265-95, THE ABSOLUTE BINARY TAPE.

- 860460 9300 MACHINE LANGUAGE LIBRARY (COVER)
AUTHOR: XEROX
COMMENTS:
THIS COMMON SOFTWARE PACKAGE CONSISTS OF THE FOLLOWING ROUTINES: CARD READ SUBROUTINE-CDR, I/O HANDLER-CDRP, FLOATING POINT ARCTANGENT-ATF, FLOATING POINT SINE (COSINE)-SNF (CSF), FLOATING POINT COMPLEX, FLOATING POINT COMPLEX EXPONENTIAL, FLOATING POINT COMPLEX LOGARITHM, FLOATING POINT COMPLEX SQUARE ROOT -SQFC, FLOATING POINT COMPLEX ARCTANGENT-ATFC, FLOATING COMPLEX SINE AND COSINE-SNFC, FLT.PT. EXTENDED PRECISION SQUARE ROOT, FLT.PT. EXTENDED PRECISION NATURAL LOG, FLT. PT. EXTENDED PRECISION ARCTAN-ATFE, DECIMAL/BINARY CONVERSION, DECIMAL TO BINARY CONVERSION-DTBFX, PAPER TAPE AND TYPEWRITER SUBROUTINE-PTYIO, LINE PRINTER SUBROUTINE (PRINT), FLOATING NEGATE SUBROUTINE-FLN, EXPONENTIAL OF A-EXP, SIN OR COS OF A-SIN COS, ARCTAN OF A-ATN, SQUARE ROOT OF A-SQR, SQUARE ROOT FLOATING POINT-SQF, FLOATING POINT LOG-ARITHM-LGF, AND FLOATING-HYPERBOLIC SINE AND COSINE-SHF.
- 860475 9300 9300 MANAGE SYSTEM (COVER)
AUTHOR: XEROX
COMMENTS:
THIS IS THE COVER NUMBER FOR THE XDS 9300 MANAGE SYSTEM. THIS PROGRAM PACKAGE CONTAINS THE FOLLOWING CATALOG NUMBERS: 860476 THRU 860489. PLEASE SEE THE APPROPRIATE PROGRAM FOR THE COMPUTER CONFIGURATION.
- 860490 9300 9300 BUSINESS LANGUAGE LIBRARY-COVER
AUTHOR: XEROX
ABSTRACT:
TO PERFORM CHARACTER MANIPULATIONS, WORD MANIPULATIONS, DECIMAL ARITHMETIC, EDITING, AND INTERNAL SORTING FOR THE BUSINESS APPLICATIONS PROGRAMMER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL/XDS BUSINESS LANGUAGE SIZE: 1585 WORDS, WITH ALL SUBROUTINES RESIDENT.
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER, UNDER MONARCH, OR THE 9300, UNDER MONITOR.
- 860530 9300 MONARCH SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
TO PERFORM AUTOMATIC EXECUTION OF A SEQUENCE OF INDEPENDENT OR RELATED PROGRAMS WITHOUT REQUIRING OPERATOR INTERVENTION.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES/ 9300 COMPUTER WITH AT LEAST 8K WORDS OF MEMORY, CONSOLE TYPEWRITER, AND ONE OR MORE MAG TAPES. FOR DETAILS, SEE MONARCH REFERENCE MANUAL. (NO. 900588)
- 860563 9300 MEDIA
AUTHOR: XEROX
ABSTRACT:
MEDIA WILL COPY VARIABLE LENGTH RECORDS FROM BCD OR BINARY CARDS, PAPER OR MAG TAPE OR TYPEWRITER TO CARDS, PAPER TAPE, MAG TAPES, TYPEWRITER AND/OR LINE PRINTER.
COMMENTS:
THIS PROGRAM IS INCLUDED ON 860000, 9300 TAPE MONITOR, 860530, 9300 MONARCH. ITS SOURCE IS IDENTICAL TO THAT FOR 850642. THE ABSOLUTE BINARY (STAND-ALONE) DECK CONTAINS THE REQUIRED I/O ROUTINES.
- 860592 9300 PROJECT MANAGEMENT SYSTEM (CPM) COVER
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE PROJECT MANAGEMENT SYSTEM. WHICH CONSISTS OF THE FOLLOWING PROGRAMS; CATALOG NO.-860593 860594 860595 860596 860597 860598
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 8K WORDS OF CORE STORAGE, 2 MAGNETIC TAPES, A TYPE WRITER, PAPER TAPE OR PUNCHED CARD INPUT, AND AN OFF-LINE OR ON-LINE PRINTER. TWO 2400 FT. TAPES ARE NEEDED FOR SOURCE MAG TAPE.
- 860605 9300 9300 PAPER TAPE BASIC RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM PAPER TAPE WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
COMMENTS:
SIZE: 68 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH PAPER TAPE READER.
- 860606 9300 9300 DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE ROUTINE WHICH WILL AID THE USER IN FUNCTIONS WHICH MAY BE PERFORMED BY THIS ROUTINE. IE: 1.MAKE IN-CORE CORRECTIONS OR INSERTIONS. 2.DUMP SELECTED MEMORY AREAS ON THE PRINTER OR TYPEWRITER. 3.PERFORM SNAPSHOTS AT SELECTED POINTS. 4.ALLOW THE USER TO SEIZE CONTROL AT SELECTED POINTS. 5.PERFORM MASKED MEMORY SEARCHES.
COMMENTS:
SIZE: 498 DECIMAL WORDS.CONFIGURATION: ANY XDS 9300 COMPUTER.

- 860607 9300 BASIC UTILITY PACKAGE 9300
AUTHOR: XEROX
ABSTRACT:
860607-84A00 ABSOLUTE BINARY CARDS
TO PROVIDE A SIMPLE UTILITY SYSTEM FOR USE ON-LINE WITH THE 9300. THE PACKAGE ALLOWS ABSOLUTE OCTAL OR DECIMAL ENTRY FROM THE KEYBOARD, PAPER TAPE, OR CARD READER AND WILL PRODUCE MEMORY LISTING ON THE TYPEWRITER OR OUTPUT (ABSOLUTE) ON EITHER PAPER TAPE OR CARDS, AND TO READ ABSOLUTE OR RELOCATABLE BINARY TAPES OR DECKS. THE PACKAGE CAN BE USED DURING PROGRAM DEBUGGING FOR SETTING INITIAL CONDITIONS IN THE REGISTERS FROM ONE OF THE ENTRY MEDIA AND THEN STARTING COMPUTATION FROM A PRESELECTED POINT. THE PACKAGE WILL ALSO PRODUCE A SNAPSHOT OF THE REGISTERS DURING A PROGRAM RUN USING INTERRUPT 32. COMPUTATION CAN BE
COMMENTS:
RESUMED WITH THE REGISTERS RESTORED OR ALTERED FROM THE POINT OF INTERRUPTION.
SOURCE LANGUAGE: META-SYMBOL SIZE: 840 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER
- 860608 9300 BINARY DUMP PAPER TAPE OR CARDS
AUTHOR: XEROX
ABSTRACT:
TO DUMP MEMORY IN STANDARD BINARY FORMAT ON PAPER TAPE OR CARDS. WHEN DUMPING ONTO PAPER TAPE, THE PROGRAM WILL OPTIONALLY DUMP AN ABSOLUTE BINARY BOOTSTRAP.
COMMENTS:
SOURCE LANGUAGE: SYMBOL SIZE: 251 DECIMAL WORDS CONFIGURATION: ANY XDS COMPUTER WITH PAPER TAPE AND/OR CARD I/O
- 860609 9300 UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR PAPER TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SIZE: 546 DECIMAL WORDS CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND/OR PHOTO READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND PAPER TAPE AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR PAPER TAPE.
- 860610 9300 9300 REAL TIME DEBUG
AUTHOR: XEROX
ABSTRACT:
THIS IS A RELOCATABLE UTILITY PROGRAM WHICH WILL AID THE USER IN DEBUGGING UNDER AN INTERRUPT ENVIRONMENT. IT IS PARTICULARLY USEFUL FOR LARGE, COMPLEX SYSTEM PROGRAMS, SUCH AS MONITORS AND OTHER REAL-TIME FUNCTIONS. OPERATIONS WHICH MAY BE PERFORMED BY THIS PROGRAM: DUMPS, ALTERATIONS, INSERTIONS, SNAPSHOTS, SELECTIVE TRACING, PROGRAM LOADING AND PUNCHING.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH TYPEWRITER (A CHANNEL) AND INTERLACE. BUFFERED PRINTER, CARD READER, CARD PUNCH, PAPER TAPE READER AND PUNCH ARE OPTIONALLY REQUIRED FOR CERTAIN DEBUG FUNCTIONS.
- 860611 9300 UTILITY AND DEBUG PACKAGE (AID)
AUTHOR: XEROX
ABSTRACT:
PROVIDE VARIOUS UTILITY ROUTINES AND DEBUGGING AIDS FOR THE PROGRAMMER'S USE DURING ON-LINE PROGRAM CHECKOUT.
COMMENTS:
SOURCE LANGUAGE: META SYMBOL SIZE: 2806 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CONSOLE TYPEWRITER.
- 860612 9300 RUNGE-KUTTA GILL DIFFERENTIAL EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER, THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.
COMMENTS:
SIZE: 93 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER.
- 860613 9300 RUNGE-KUTTA GILL DIFF. EQU. FLOAT.POINT
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE MAY BE CHANGED AFTER ANY COMPLETE STEP. HOWEVER, THE METHOD REQUIRES FOUR EVALUATIONS OF THE DERIVATIVES AT EACH STEP.
COMMENTS:
SIZE: 103 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

- 860614 9300 POLYNOMIAL EVALUATION (COMPLEX ARGUMENT)
AUTHOR: XEROX
ABSTRACT:
TO EVALUATE AN NTH ORDER POLYNOMIAL WITH REAL COEFFICIENTS FOR A COMPLEX ARGUMENT, $A+BI$.
COMMENTS:
SIZE: 61 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860615 9300 ADAMS-MOULTON DIFFERENTIAL EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STOP.
COMMENTS:
SIZE: 208 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER
- 860616 9300 FLOATING NEGATE SUBROUTINE - FLN
AUTHOR: XEROX
ABSTRACT:
TO NEGATE THE FLOATING POINT CONTENTS OF (A,B).
COMMENTS:
SIZE: 26 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860617 9300 PROGRAMMED FLOATING POINT PACKAGE-FLPT
AUTHOR: XEROX
ABSTRACT:
TO SIMULATE THE FLOATING-POINT HARDWARE ON AN XDS 9300 WHICH DOES NOT HAVE HARDWARE FLOATING-POINT OR ON WHICH THE HARDWARE FLOATING POINT HAS BEEN DISABLED.
COMMENTS:
SIZE: 150 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860618 9300 EXPONENTIAL OF A - EXP
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E) OF A SPECIFIED ARGUMENT.
COMMENTS:
SIZE: 63 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860619 9300 SIN OR COS OF A - SIN COS
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS.
COMMENTS:
SIZE: 58 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860620 9300 ARCTAN OF A - ATN
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS AND QUADRANTAL-LOCATE THE RESULTS.
COMMENTS:
SIZE: 87 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860621 9300 DOUBLE PRECISION MULTIPLY SUBROUTINE-OPM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION PRODUCT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
COMMENTS:
SIZE: 29 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860622 9300 SQUARE ROOT OF A - SQR
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SQUARE ROOT OF A SPECIFIED ARGUMENT.
COMMENTS:
SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860623 9300 SQUARE ROOT FLOATING POINT - SQF
AUTHOR: XEROX
ABSTRACT:
TO EXTRACT THE SQUARE ROOT OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 83 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860624 9300 DOUBLE PRECISION DIVIDE SUBROUTINE-DPD
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE DOUBLE PRECISION QUOTIENT OF TWO DOUBLE PRECISION FIXED POINT NUMBERS.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860625 9300 FLOATING POINT LOGARITHM - LGF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 60 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860626 9300 FLOATING-HYPERBOLIC SINE AND COSINE-SHF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING-POINT HYPERBOLIC SINE AND COSINE OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 80 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860627 9300 FLOATING POINT EXPONENTIAL - EXP
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SIZE: 69 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860628 9300 FLOATING POINT SINE (COSINE)-SNF (CSF)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS.
COMMENTS:
SIZE: 74 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860629 9300 FLOATING POINT ARCTANGENT - ATF
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
COMMENTS:
SIZE: 105 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860630 9300 FLOATING POINT, COMPLEX ARITH. PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FOLLOWING FLOATING POINT, COMPLEX ARITHMETIC OPERATIONS: LDFC: (CM) REPLACES (CA) STFC:
(CA) REPLACES (CM) FLAC: (CA)+(CM) REPLACES (CA) FLSC: (CA)+(CM) REPLACES (CA) FLHC: (CA)+(CM) REPLACES
(CA) FLDC: (CA)/(CM) REPLACES (CA) FLNC: (CA) REPLACES (CA) (CA DENOTES THE PSEUDO COMPLEX ACCUMULATOR
WITH REAL PART IN CA, CA+1, IMAGINARY PART IN CA+2, CA+3, CM DENOTES COMPLEX OPERAND WITH REAL PART IN M,
M+1 IMAGINARY PART IN M+2, M+3).
COMMENTS:
SIZE: 129 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860631 9300 FLOATING POINT COMPLEX EXPONENTIAL-EXFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING COMPLEX ARGUMENT.
COMMENTS:
SIZE: 15 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860632 9300 FLOATING POINT COMPLEX LOGARITHM - LNFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX, NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE: 21 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860633 9300 FLOATING POINT COMPLEX SQUARE ROOT-SQFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX SQUARE ROOT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE: 29 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860634 9300 FLOATING POINT COMPLEX ARCTANGENT - ATFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX ARCTANGENT OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:46 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860635 9300 FLOATING COMPLEX SINE AND COSINE - SNFC
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT COMPLEX SINE AND COSINE OF A SPECIFIED FLOATING POINT COMPLEX ARGUMENT.
COMMENTS:
SIZE:30 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860636 9300 LOGARITHM SUBROUTINE TO BASE E OR 10
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE LOGARITHM, TO BASE E OR 10, OF AN ARGUMENT IN THE A REGISTER.
COMMENTS:
SIZE: 64 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
- 860637 9300 FL. PT. EXTENDED PRECISION SQUARE ROOT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SQUARE ROOT OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE:23 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860638 9300 EXTENDED PRECISION ARITHMETIC PACKAGE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE FOLLOWING FLOATING POINT AND FIXED POINT EXTENDED PRECISION ARITHMETIC OPERATIONS.
FLOATING POINT LDPE: (EM) REPLACES (EA) STPE: (EA) REPLACES (EM) FLAE: (EA)+(EM) REPLACES (EA) FLSE:
(EA)-(EM) REPLACES (EA) FLME: (EA)*(EM) REPLACES (EA) FLDE: (EA)>(EM) REPLACES (EA) FLNE: -(EA) REPLACES
(EA) FIXED POINT TPM: (EA)*(EM) REPLACES (EA) TPA: (EA)+(EM) REPLACES (EA) (EA DENOTES THE PSEUDO
EXTENDED ACCUMULATOR AND EM DENOTES THE EXTENDED OPERAND IN MEMORY).
COMMENTS:
SIZE: 481 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
- 860639 9300 BINARY TO DECIMAL CONVERSION-BTDFL1
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
STORE IT IN 4 CONSECUTIVE LOCATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 197 DECIMAL WORDS COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING
POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860640 9300 BINARY TO BCD CONVERTED BTDFX2,BTDFL2
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND
STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7 DIGIT EQUIVALENT STORED IN
3 CONSECUTIVE LOCATIONS
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 222 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH FLOATING
POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860641 9300 ONE CARD OCTAL MEMORY DUMP (PRINTER)
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 9300 WITH LINE PRINTER.
- 860642 9300 FL. PT.EXTENDED PRECISION EXPONENTIAL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION EXPONENTIAL (BASE E) OF A SPECIFIED FLOATING POINT
EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE: 121 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860643 9300 DECIMAL/BINARY CONVERSION ROUTINES
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER TO ITS 11-DIGIT BCD EQUIVALENT IN SCIENTIFIC NOTATION, AND STORE IT IN 4 CONSECUTIVE LOCATIONS, OR A FIXED POINT BINARY NUMBER TO ITS 7-DIGIT EQUIVALENT STORED IN 3 CONSECUTIVE LOCATIONS; TO CONVERT AN 11-DIGIT NUMBER IN SCIENTIFIC NOTATION TO ITS FLOATING BINARY EQUIVALENT.
COMMENTS:
SIZE:318 DECIMAL WORDS. COMPUTER CONFIGURATION:XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860644 9300 DECIMAL TO BINARY CONVERSION - DTBFX
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A SIGNED BCD NUMBER TO ITS FIXED POINT BINARY EQUIVALENT AT A GIVEN SCALING.
COMMENTS:
SIZE:80 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860645 9300 9300 DISPLAY CONVERSION (DISCV)-S SEE
AUTHOR: XEROX
ABSTRACT:
TO CONVERT A FLOATING POINT BINARY NUMBER INTO THE FOLLOWING ONE-WORD FORMAT, WITH SPEED OF CONVERSION THE PRIMARY CONSIDERATION:+OR-XXXOR-EE
COMMENTS:
SIZE:323 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860646 9300 FL. PT. EXTENDED PRECISION NATURAL LOG
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION NATURAL LOGARITHM OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT.
COMMENTS:
SIZE:147 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860647 9300 F. P. EXTENDED PRECISION SIN (COS)-SNFE
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION SINE (COSINE) OF A SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENT IN RADIANS.
COMMENTS:
SIZE: 163 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860648 9300 PAPER TAPE AND TYPEWRITER SUBROUTINE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE TO PERFORM I/O FUNCTIONS ON PAPER TAPE AND TYPEWRITER. BOTH INTERLACE AND INTERRUPTS ARE USED.
COMMENTS:
SOURCE LANGUAGE:META-SYMBOL. SIZE:345 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300 WITH A TYPEWRITER AND/OR PAPER TAPE UNIT ATTACHED TO AN INTERLACED CHANNEL.
- 860650 9300 FL. PT. EXTENDED PRECISION ARCTAN - ATFE
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXTENDED PRECISION ARCTANGENT OF THE RATIO OF TWO SPECIFIED FLOATING POINT EXTENDED PRECISION ARGUMENTS.
COMMENTS:
SIZE:222 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.
- 860651 9300 REAL MATRIX ADDITION-RMADD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 82 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860652 9300 REAL MATRIX SUBTRACTION - RMSUB
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE:FORTRAN IV. SIZE:82 DECIMAL WORDS. COMPUTER CONFIGURATION:ANY XDS 9300.

- 860653 9300 REAL MATRIX TRANSPOSE-RMTRA
AUTHOR: XEROX
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 69 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860654 9300 REAL MATRIX MULTIPLY-RMMUL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 108 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860655 9300 REAL MATRIX INVERSION-RMINV
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS. IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURNS WITH A DETERMINANT OF ZERO AND INDICATES THE RANK OF THE MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 673 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860656 9300 COMPLEX MATRIX ADDITION-CHADD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860657 9300 COMPLEX MATRIX INVERSION-CHINV
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF COMPLEX ELEMENTS. IF THE MATRIX IS SINGULAR, OR IF IT IS SUFFICIENTLY ILL-CONDITIONED SO AS TO MAKE FURTHER COMPUTATION OF NO VALUE, THE SUBPROGRAM RETURNS WITH A DETERMINANT OF COMPLEX ZERO AND INDICATES THE RANK OF THE MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 794 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860658 9300 COMPLEX MATRIX MULTIPLICATION-CHMUL
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF COMPLEX ELEMENTS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 118 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860659 9300 COMPLEX MATRIX SUBTRACTION-CHSUB
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE BETWEEN TWO RECTANGULAR COMPLEX MATRICES.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 85 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860660 9300 COMPLEX MATRIX TRANSPOSE-CHTRA
AUTHOR: XEROX
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF COMPLEX ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860669 9300 SINE/COSINE SINRX,COSRX,SINDX,COSDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE SINE OR COSINE OF AN ARGUMENT SPECIFIED IN RADIANS (SINRX,COSRX) OR DEGREES (SINDX,COSDX)
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 84 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.

- 860670 9300 9300 EXPONENTIAL (E OR 10) EXPNX,EXPTX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE EXPONENTIAL (BASE E OR 10) OF A SPECIFIED ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860671 9300 9300 ARCTANGENT ATNRX,ATNOX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE ARCTAN Y/X IN RADIANS OR DEGREES AND QUADRANTALLOCATE THE RESULT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 96 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860672 9300 FLOATING POINT EXPONENTIAL EXFN,EXFT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT EXPONENTIAL (BASE E OR 10) OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 76 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860673 9300 F. P. SINE/COSINE-SNFR(CSFR)SNFD(CSFD)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT SINE (COSINE) OF A SPECIFIED FLOATING POINT ARGUMENT IN RADIANS R OR DEGREES D.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 88 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860674 9300 LOGARITHM (BASE E OR 10)-LOFN,LOFT
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT LOGARITHM TO BASE E OR 10 OF A SPECIFIED FLOATING POINT ARGUMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 71 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860675 9300 FL. PT. ARCTANGENT-ATFR,ATFD
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE FLOATING POINT ARCTANGENT (IN DEGREES OR ADIANS) OF THE RATIO OF TWO SPECIFIED ARGUMENTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 117 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860676 9300 ARCSINE,ARCCOSINE (DEGREES-RADIANS)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE (IN DEGREES (D) OR RADIANS) THE FLOATING POINT SIN-1 AND COS-1 OF A GIVEN ARGUMENT. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST OR SECOND QUADRANT FOR COS-1.
COMMENTS:
SIZE: 126 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860677 9300 ARCSINE,ARCCOSINE-ASN,ACSX,ASND,ACSDX
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE (IN DEGREES (D) OR RADIANS) THE SIN-1 AND COS-1 OF A GIVEN ARGUMENT IN THE A REGISTER AT A BINARY POINT OF 1. VALUES WILL BE IN THE FIRST OR FOURTH QUADRANT FOR SIN-1, AND IN THE FIRST AND SECOND QUADRANT FOR COS-1. VALUES IN RADIANS WILL BE AT A BINARY POINT OF 2. VALUES IN DEGREES WILL BE AT A BINARY POINT OF 8.
COMMENTS:
SIZE: 101 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860678 9300 TANGENT-TAN,TAND
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE TANGENT OF A FLOATING POINT NUMBER EXPRESSED IN DEGREES (TAND) OR RADIANS (TAN).
COMMENTS:
SIZE: 123 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

- 860679 9300 INTERNAL SORT (SORTAC,SORTDC)
AUTHOR: XEROX
ABSTRACT:
TO SORT AN INTERNAL ARRAY IN EITHER ASCENDING OR DESCENDING ORDER. THE ARRAY MAY BE OF ANY NUMBER OF UNIFORMLY LONG ITEMS WHICH MAY BE ONE OR MORE WORDS, BOTH THE KEY BITS AND THEIR ORDER OF PRECEDENCE MAY BE SPECIFIED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 485 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860680 9300 TANGENT-TANX,TANX(DEGREES OR RADIANS)
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE THE TANGENT OF A FIXED POINT NUMBER EXPRESSED IN DEGREES (TANX) OR RADIANS (TANX).
COMMENTS:
SIZE: 112 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860681 9300 HYBRID RUNGE-KUTTA GILL INTEGRATION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS SELF-STARTING AND THE STEP SIZE(S) MAY BE CHANGED AFTER ANY COMPLETE STOP. ONE LEVEL OF RECURSIVENESS IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 111 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860682 9300 LINEAR INTERPOLATION (3 ARGUMENTS)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF THREE GIVEN ARGUMENTS,X,Y,AND Z. BY SEVEN STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,Z,F(X,Y,Z), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 131 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860683 9300 LINEAR INTERPOLATION (2 ARGUMENTS)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF TWO GIVEN ARGUMENTS,X AND Y, BY THREE STRAIGHT-LINE INTERPOLATIONS IN A TABLE OF X,Y,F(X,Y), WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 74 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860684 9300 LINEAR INTERPOLATION (1 ARGUMENT)
AUTHOR: XEROX
ABSTRACT:
TO FIND A FUNCTION OF A GIVEN ARGUMENT, X, BY STRAIGHT-LINE INTERPOLATION IN A TABLE OF X,F(X) PAIRS, WHERE SPEED OF EXECUTION IS THE PRIMARY CONSIDERATION.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860685 9300 HYBRID ADAMS-MOULTON DIFF. EQUATIONS
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS, FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 154 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860686 9300 HYBRID RECTANGULAR INTEGRATION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 32 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860687 9300 HYBRID 2-POINT PREDICTOR
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 54 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.

- 860688 9300 HYBRID 4-POINT PREDICTOR
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 78 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860689 9300 HYBRID 4-POINT CORRECTOR
AUTHOR: XEROX
ABSTRACT:
TO CALCULATE AN IMPROVED ESTIMATE OF THE SOLUTION OF A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. ONE LEVEL OF RECURSION IS PROVIDED FOR BY TWO ENTRIES AND DOUBLE TEMPORARY STORAGE.
COMMENTS:
SIZE: 78 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860690 9300 ADAMS-MOULTON SOLN ORDINARY DIFF. EQUATI
AUTHOR: XEROX
ABSTRACT:
TO SOLVE A SYSTEM OF N SIMULTANEOUS FIRST-ORDER ORDINARY DIFFERENTIAL EQUATIONS. THE PROCESS IS STARTED BY THE RUNGE-KUTTA GILL METHOD; THE STEP SIZE MAY BE CHANGED AFTER ANY STEP.
COMMENTS:
SIZE: 224 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH FLOATING POINT HARDWARE OR EQUIVALENT SUBROUTINES.
- 860692 9300 9300 STAND-ALONE SYSTEM-MAKE ROUTINE
AUTHOR: XEROX
ABSTRACT:
SYSTEM MAKE IS A FREE-STANDING, CONTROL CARD ORIENTED ROUTINE FOR MAKING AND CHANGING 9300 MONITOR SYSTEM TAPES.
COMMENTS:
SIZE: 5340 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER, BUFFERED PRINTER, CARD READER TWO MAG. TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY.
READER TWO MAG. TAPES (A CHANNEL), INTERLACE, AND 16K MEMORY.
- 860694 9300 MAG TAPE COPY AND VERIFY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COPY AND VERIFY MIXED MODE (BINARY AND BCD) MAG TAPES ON A FILE BASIS, UTILIZING THE 9300 MONITOR I/O HANDLERS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 764 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER, CARD READER AND TWO MAG TAPE UNITS.
- 860697 9300 POLYNOMIAL TELESCOPER
AUTHOR: XEROX
ABSTRACT:
TO REDUCE BY STEPS THE DEGREE OF A GIVEN POLYNOMIAL, CALCULATING NEW COEFFICIENTS AT EACH STEP, UNTIL THE ACCUMULATED ERROR GENERATED EXCEEDS A GIVEN LIMIT.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 1232 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860698 9300 KHIC INDEX PROGRAM FOR SIGMA
AUTHOR: XEROX
ABSTRACT:
GIVEN A SET OF SIGMA PROGRAM LIBRARY CARDS AS INPUT, TO PRODUCE A KHIC (KEY WORD IN CONTEXT) INDEX, ALPHABETICALLY SORTED, KEYING ON ALL WORDS IN THE TITLE THAT HAVE NOT BEEN SPECIFIED AS DULL WORDS.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. SIZE: 25000 DECIMAL WORDS. COMPUTER CONFIGURATION: 32K, 9300 WITH AT LEAST 4 MAG TAPES.
- 860700 9300 FORTRAN IV ERROR CHECKING DEMO
AUTHOR: XEROX
ABSTRACT:
TO ILLUSTRATE COMPILER-TIME ERROR CHECKING CAPABILITY OF 9300 FORTRAN IV.
COMMENTS:
SOURCE LANGUAGE: FORTRAN IV. COMPUTER CONFIGURATION: ANY 9300

- 860716 9300 BINARY INPUT--PAPER TAPE LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY PAPER TAPE.
COMMENTS:
SIZE: 40 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE READER.
- 860720 9300 BASIC 2 CARD RELOCATABLE LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD AN ABSOLUTE OR RELOCATABLE PROGRAM FROM CARDS WHICH IS REPRESENTED IN THE XDS STANDARD BINARY LANGUAGE FORMAT. EXTERNA REFERENCES AND DEFINITIONS ARE NOT ALLOWED AND ADDRESS MODIFICATION IS RESTRICTED TO ABSOLUTE OR PROGRAM RELOCATABLE.
COMMENTS:
SIZE: 79 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.
- 860721 9300 BINARY INPUT-1 CARD ABS. LOADER
AUTHOR: XEROX
ABSTRACT:
TO SIMPLIFY THE LOADING OF OBJECT PROGRAMS WHICH HAVE BEEN OUTPUT FROM AN XDS 9300 ASSEMBLER ONTO BINARY CARDS.
COMMENTS:
SIZE: 37 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER.
- 860722 9300 ONE CARD OCTAL MEMORY DUMP (TYPEWRITER)
AUTHOR: XEROX
ABSTRACT:
TO DISPLAY THE CONTENTS OF A SELECTED PORTION OF MEMORY.
COMMENTS:
SIZE: 65 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300
- 860723 9300 OCTAL INPUT-1 CARD LOADER
AUTHOR: XEROX
ABSTRACT:
TO ENABLE PROGRAM CORRECTION FROM CARDS PUNCHED IN A CONVENIENT OCTAL FORMAT.
COMMENTS:
SIZE: 30 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860726 9300 CARD READ SUBROUTINE - CDR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF ACCEPTING INPUT FROM A CARD READER IN EITHER BCD OR BINARY MODE. INTERLACE IS USED AND THE INTERRUPTS ARE ENABLED AND USED.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER ATTACHED TO AN INTERLACED CHANNEL.
- 860731 9300 I/O HANDLER CDRP
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF READING OR PUNCHING CARDS IN EITHER BCD OR BINARY MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 277 OCTAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A CARD READER/OR PUNCH.
- 860732 9300 MAGNETIC TAPE HANDLER (MTAPE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A GENERALIZED ROUTINE TO PERFORM VARIOUS MAGNETIC TAPE OPERATIONS. THE ROUTINE OPERATES IN THE EXTENDED MODE UNDER INTERRUPT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 523 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAGNETIC TAPE(S) ON ANY OF THE INTERLACED CHANNELS A-M.
- 860733 9300 CARD OR MAG. TAPE UNIVERSAL LOADER
AUTHOR: XEROX
ABSTRACT:
TO LOAD ONE OR MORE PROGRAMS PRODUCED BY SYMBOL OR META-SYMBOL AND PRESENTED TO THE LOADER ON EITHER PUNCHED CARDS OR MAGNETIC TAPE. THIS LOADER HAS ESSENTIALLY THE SAME CAPABILITIES AS THE XDS MONARCH LOADER BUT IT FUNCTIONS INDEPENDENTLY OF MONARCH.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 1071 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 COMPUTER WITH A CARD READER AND A TYPEWRITER. LOADER EXISTS ON CARDS AND LOADS PROGRAMS WHICH EXIST EITHER ON CARDS OR MAGNETIC TAPE.

- 860734 9300 MAG TAPE TRANSFORMATION (TRANSFORM)
AUTHOR: XEROX
ABSTRACT:
TO TRANSFORM A FILE OF BLOCKED RECORDS WHOSE LOGICAL RECORD LENGTH (IN CHARACTERS) IS A NON-MULTIPLE OF FOUR (4) TO A NEW FILE WHOSE LOGICAL RECORD LENGTH IN CHARACTERS IS A MULTIPLE OF FOUR. THE OUTPUT RECORD LENGTH IS SPECIFIED BY THE USER. THE ORIGINAL BLOCKING FACTOR IS RETAINED IN THE OUTPUT FILE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL(META 893H). SIZE:3243 DEC. WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 MINIMUM 16K,3 MAG TAPES.
- 860737 9300 BINARY MAG TAPE EDITOR
AUTHOR: XEROX
ABSTRACT:
TO COPY AND EDIT A BINARY MAG TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE:687 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TWO MAG TAPES
- 860740 9300 SORT/MERGE (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE CATALOG NUMBERS 860741 AND 860742 FOR ABSTRACTS OF SORT AND MERGE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 4098-8192 DECIMAL WORDS COMPUTER CONFIGURATION:ANY XDS 9300 COMPUTER WITH A MINIMUM OF 16K FOR FULL CAPACITY VERSION OF SORT WHICH PERMITS FIRST AND/OR LAST PASS OWN-CODE SUBPROGRAMS,OR 8K FOR THE LIMITEDCAPACITY VERSION.THREE TAPE UNITS,ONE CARD READER AND ONE TYPEWRITER.
- 860741 9300 SORT
AUTHOR: XEROX
ABSTRACT:
PROVIDES A COMPREHENSIVE SORTING CAPABILITY FOR USERS OF XDS 900 SERIES OR 9300 COMPUTER SYSTEMS HAVING AT LEAST THREE MAG TAPE UNITS OR TWO MAGPAK UNITS.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 860740. SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.
- 860742 9300 MERGE
AUTHOR: XEROX
ABSTRACT:
MERGE, BASICALLY IS AN ABRIDGEMENT OF SORT. ALLOWS PREVIOUSLY SEQUENCED RECORDS FROM AS MANY AS SIX REELS OF MAGNETIC TAPE TO BE MERGED INTO ONE STRING.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860740. SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.
- 860743 9300 PAYROLL GENERATOR PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO COMPUTE PAYROLL EARNINGS, BASED ON DATA CONTAINED IN AN EMPLOYEE MASTER FILE AND A TIME REPORT FILE.
COMMENTS:
SOURCE LANGUAGE:XDS BUSINESS LANGUAGE. SIZE: 6500 DECIMAL WORDS COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MINIMUM OF 16K OF STORAGE AND THREE MAGNETIC TAPE UNITS.
- 860749 9300 MODEL 9372 UNBUFFERED LINE PRINTER SUBR
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 120 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 428 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.
- 860750 9300 MONARCH SYS. UPDATE FOR UNBUFFERED PRINT
AUTHOR: XEROX
ABSTRACT:
TO RELEASE AN UPDATE PACKAGE WHICH WILL ADAPT A STANDARD M03 9300 MONARCH SYSTEM TAPE TO THE UNBUFFERED PRINTER. N/A
- 860751 9300 SYMBOL 9372 UNBUFFERED PRINT OUTPUT SUBR
AUTHOR: XEROX
ABSTRACT:
TO OUTPUT ON THE PRINTER ONE LINE OF THE SYMBOL OUTPUT LISTING.
COMMENTS:
SOURCE LANGUAGE:SYMBOL. SIZE: 130 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.

- 860752 9300 LINE PRINTER SUBROUTINE (PRINT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CLOSED SUBROUTINE CAPABLE OF PRINTING LINES OF UP TO 132 CHARACTERS WITH VERTICAL FORMAT CONTROL.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 185 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A BUFFERED LINE PRINTER ATTACHED TO AN INTERLACED CHANNEL.
- 860772 9300 CFE-1 AND MAG TAPE COMPATABILITY PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE THE CAPABILITY OF THE CFE-1 TO OPERATE INDEPENDENTLY FROM THE CENTRAL PROCESSING UNIT (XDS 9300) IN ALL OPERATING AND STORAGE MODES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 238 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH CFE-1 AND MAG TAPE.
- 860774 9300 PATCH
AUTHOR: XEROX
ABSTRACT:
THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS. THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 2550 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300.
- 860779 9300 DES-1 8K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860780 9300 DES-1 16K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860781 9300 DES-1 24K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860782 9300 DES-1 32K VERSION
AUTHOR: XEROX
ABSTRACT:
TO SOLVE DIFFERENTIAL EQUATIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860784 9300 RTH STAND-ALONE UPDATE
AUTHOR: XEROX
ABSTRACT:
THIS ROUTINE IS USED TO UPDATE 9300 RTH SYSOEN TAPES.
COMMENTS:
SOURCE: METASYMBOL. CONFIGURATION: 9300 WITH 8K MEMORY (MINIMUM).
- 860791 9300 DES-1 SYSOEN FOR NAA SYSTEM
AUTHOR: R.E. VOSSLER
ABSTRACT:
THIS PROGRAM GENERATES THE DES-1 SYSTEM FILE ON THE RAD FOR THE NORTH AMERICAN AVIATION HYBRID SYSTEM. THE DES-1 SYSTEM CONSISTS OF BINARY CARD DECKS WHICH ARE READ INTO MEMORY AND THEN DUMPED ONTO THE RAD.
COMMENTS:
THIS PROGRAM REQUIRES THE FOLLOWING CONFIGURATION: 24K 9300 XDS COMPUTER 1/2 MILLION CHARACTER RAD CARD READER THE DES-1 ALSO REQUIRES THE FOLLOWING: MAG TAPE LINE PRINTER TELETYPE DES-1 CONSOLE

- 860798 9300 NASA EDWARDS HYBRID EXECUTION LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE NASA EDWARDS HYBRID EXECUTIVE LIBRARY CONSISTS OF A NUMBER OF FORTRAN IV REENTRANT SUBROUTINES WHICH PROVIDE USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE EXECUTIVE LIBRARY SUBROUTINES MAY BE CALLED BY FORTRAN IV PROGRAMS OR VIA COMMANDS INPUT THROUGH THE TYPEWRITER WHICH ARE EXERCISED BY THE MANUAL EXECUTIVE PROGRAM. THE HYBRID EXECUTIVE LIBRARY CONSISTS OF ALL HYBRID HARDWARE INTERFACE ROUTINES, THE SOFTWARE INTERFACE TO THE MONITOR AND THE INTERRUPTS, INTERVAL TIMER CONTROL, ANALOG-DIGITAL CONVERTERS, SENSE LINES, LOGIC LEVEL OUTPUT LINES, ANALOG MODE CONTROL, ANALOG POTENTIOMETER SETTING, ANALOG VALUE SCANNING, AND ADIOS CONTROL. A FULL SET OF OPERATOR AND HARDWARE ERROR DIAGNOSTICS ARE PROVIDED AT RUN TIME.
- 860798 9300 NORTH AMERICAN AVIATION HYBRID EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE FORTRAN USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE ROUTINES MAY BE CALLED FROM A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMAND. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH SPECIAL HYBRID INTERFACE FOR NAA.
- 860799 9300 NAA DES-1 HYBRID CALL LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE DES-1 HYBRID CALL LIBRARY CONSISTS OF A NUMBER OF SUBROUTINES WHICH PROVIDE THE DES-1 USER CONTROL OF THE HYBRID SYSTEM HARDWARE.
COMMENTS:
THE ROUTINES MAY BE CALLED FROM A DES-1 PROGRAM. THE ROUTINES ARE WRITTEN FOR A 9300 COMPUTER WITH DES-1 AND SPECIAL HYBRID INTERFACE HARDWARE FOR NAA.
- 860803 9300 SYMBOL BOOTSTRAP
AUTHOR: XEROX
ABSTRACT:
LOAD SYMBOL LOADER FROM SYSTEM TAPE.
- 861000 9300 REAL-TIME MONITOR
AUTHOR: XEROX
ABSTRACT:
THE REAL TIME MONITOR IS A COMPREHENSIVE SYSTEM FOR MONITORING AND CONTROLLING ASSEMBLIES, COMPILATIONS AND OTHER PROGRAM OPERATIONS IN A REENTRANT, ONLINE REAL-TIME MODE.
- 861078 9300 USNPGS HYBRID EXECUTIVE LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE HYBRID EXECUTIVE LIBRARY CONSISTS OF A LARGE NUMBER OF SUBROUTINES WHICH PROVIDE USER CONTROL OF HYBRID SYSTEM HARDWARE. THE EXECUTIVE FUNCTIONS MAY BE CALLED BY A REAL-TIME FORTRAN IV PROGRAM OR MADE TO RESPOND TO MANUAL COMMANDS. INCLUDED IN THE LIBRARY ARE FACILITIES FOR INTERRUPT CONTROL, LOGIC LINES OUTPUT, SENSE LINE TESTING, ANALOG POT SETTING, ANALOG VALUE SCANNING, ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERTER CONTROL, AND HYBRID SYSTEM MODE CONTROL.
COMMENTS:
THE HYBRID EXECUTIVE LIBRARY IS DESIGNED TO OPERATE UNDER THE XDS 9300 REAL-TIME MONITOR SYSTEM. THE SUBROUTINES IN THE HYBRID EXECUTIVE LIBRARY ARE REENTRANT AND CODED IN XDS 9300 META-SYMBOL. THE USNPGS HYBRID SYSTEM INCLUDES AN XDS 9300 COMPUTER INTERFACED WITH A C15000 ANALOG COMPUTER
- 861079 9300 USNPGS DISPLAY EXECUTIVE LIBRARY
AUTHOR: XEROX
ABSTRACT:
THE USNPGS DISPLAY EXECUTIVE LIBRARY CONSISTS OF A SET OF SUBROUTINES AND INTERRUPT PROCESSORS WHICH PROVIDE USER CONTROL OF ALL DISPLAY FUNCTIONS.
COMMENTS:
THE DISPLAY EXECUTIVE LIBRARY, CODED IN META-SYMBOL, IS CALLABLE FROM META-SYMBOL AS WELL AS FORTRAN IV. THE DISPLAY EXECUTIVE OPERATES UNDER THE 9300 RTH SYSTEM AND REQUIRES THE REAL-TIME FORTRAN IV LIBRARY. FUNCTIONS PROVIDED BY THE DISPLAY EXECUTIVE INCLUDE: INITIATION OF OUTPUT SEQUENCE, CHARACTER AND VECTOR GENERATION, EDITING FUNCTIONS, DISPLAY BUFFER MANAGEMENT, CHARACTER AND VECTOR RASTER GENERATION, PROGRAM AS WELL AS OPERATOR CONTROL OF DISPLAY FUNCTIONS. A VARIETY OF INPUT SOURCES FOR DISPLAY DATA. THE ABILITY TO PERFORM THESE FUNCTIONS ON EITHER OF TWO DISPLAY
- 861082 9300 RAD TO MAGNETIC TAPE DUMP
AUTHOR: XEROX
ABSTRACT:
RAD-TO-TAPE DUMP WHICH ALLOWS USER TO SPECIFY RAD CHANNEL AND TAPE CHANNEL AND A RAD SIZE OF EITHER 1/2 MILLION, 1 MILLION, OR 2 MILLION CHARACTERS. THE TAPE PRODUCED MAY THEN HAVE ITS CONTENTS PLACED BACK ON THE RAD BY EXECUTING A TAPE FILL PROCEDURE.

- 861083 9300 SYMBOL ASSEMBLER (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS IS THE COVER NUMBER FOR THE SYMBOL ASSEMBLER UNDER 9300 MONARCH SYSTEM, CAT. NO. 860530. ROUTINES UNDER THIS COVER INCLUDE: 860547-SYMBOL LOADER, 860548-SYMBOL PS1, 860549-SYMBOL CS1, 860550-SYMBOL MS1, 860551-SYMBOL P80, 860552-SYMBOL C80, 860553-SYMBOL M80, 860554-SYMBOL TLO, 860555-SYMBOL LLO, 860556-SYMBOL MLO, 860557-SYMBOL S1, 860558-SYMBOL S2, 860559-SYMBOL S3, 860560-SYMBOL M910, 860561-SYMBOL M920, 860562-SYMBOL M9300.
- 861084 9300 USNPOS DISPLAY SUBSYSTEM
AUTHOR: XEROX
ABSTRACT:
THESE PROGRAMS ALLOW OPERATION OF TWO AGT/10 GRAPHIC DISPLAY SUBSYSTEMS IN CONJUNCTION WITH AN XDS 9300. THEY ALLOW THE AGT/10S TO READ TAPES FROM THE 9300 TAPE DRIVES. THEY ALSO ALLOW THE USER TO OUTPUT CONTROL INFORMATION AND TO INPUT AND OUTPUT TEXT AND GRAPHIC BLOCKS TO THE AGT/10S.
COMMENTS:
HARDWARE REQUIREMENTS: AN XDS 9300-ADAGE AGT110 COMPUTER SYSTEM. TWO TAPE DRIVES AND VERSION 801 OF THE 9300 REAL-TIME MONITOR ARE REQUIRED
- 861085 9300 FORTRAN IV LIBRARY 9RDDISC,9HRDISC
AUTHOR: XEROX
ABSTRACT:
THESE ROUTINES IMPLEMENT THE READ DISK, WRITE DISK STATEMENTS OF FORTRAN IV FOR THE REAL TIME MONITOR. (SEE FORTRAN IV REF MANUAL PAGE 69).
COMMENTS:
A BINARY UPDATE PACKAGE (CAT. NO. 861000-64C01) IS AVAILABLE TO UPDATE THE REAL-TIME MONITOR SYSDEN TAPE (CAT. NO. 861000-85C00). IT CONTAINS, IN ADDITION TO 9RDDISC. VERSIONS OF R'RECUR, 9HRDATA, 9GETBUFF, AND M'DOIO THAT HAVE BEEN UPDATED TO ACCOMMODATE 9RDDISC.
NOTE ALSO THAT THE SPELLING OF THE WORD DISK IN THE FORTRAN REF. MANUAL (901107) IS NOT CORRECT. THE CORRECT SPELLING IS D I S K , FOR EXAMPLE, READ DISK.
- 870009 940 940 TIME-SHARING SYSTEM DISC DUMP
AUTHOR: XEROX
ABSTRACT:
THE DUMP HAS ALL THE CURRENT MONITOR, EXECUTIVE, UTILITIES PROGRAMS, AND SUBSYSTEMS FILES IN BINARY AND SYMBOLIC. ALSO THERE ARE DESCRIPTIVE FILES ON : 1. MODIFYING 2. PERIPHERALS 3. SYSTEM MAKE 4. NEW FEATURES 5. DISC FILES 6. RELEASE
COMMENTS:
AVAILABLE ON TWO TAPE REELS. NOTE: AN ADDITIONAL MINI-REEL IS REQUIRED FOR THE DISC DUMP/LOAD-2.0 AND DISC SWAP-2.0
- 870010 940 940 WRITE SUBSYSTEMS ON RAD (MSD)
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TRANSFERS THE SUBSYSTEMS FROM DISC FILES TO THE RAD.
COMMENTS:
INCLUDED WITH THE SYMBOLIC FILE IS A DETAILED DESCRIPTION FOR GENERATING THIS PROGRAM.
- 870011 940 940 OPERATOR'S EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE OPERATOR'S EXECUTIVE IS COMPOSED OF TWO PARTS: (1) A CONSTANTS AND PART ONE, (2) COMMANDS AND PART TWO THIS PROGRAM IS USED TO VALIDATE ACCOUNTS, PASSWORDS, USER NUMBERS, LEGAL LOG-IN TIMES, BROADCAST LETTERS, COPY ACCOUNTING DATA TO A FILE, AND COMMANDS THAT ONLY THE OPERATOR CAN ACCESS. THE COMMAND 'HELP' WILL LIST THE ENTIRE AVAILABLE COMMANDS.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC AND BINARY FILES NECESSARY FOR THE GENERATION OF OPERATOR'S EXECUTIVE. INCLUDED IS A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE. NOTE: THIS PROGRAM IS REQUIRED AS PART OF THE OPERATING SYSTEM. CHANGES IN OPERATION OF THE MONITOR AND EXECUTIVE CAN CAUSE THIS PROGRAM TO FAIL.
- 870012 940 940 MAP DISC
AUTHOR: XEROX
ABSTRACT:
MAP DISC IS RESPONSIBLE FOR CLEARING THE RESIDENT BIT MAP FOR ALL DATA BLOCKS WHICH EXIST ON THE DISC AND ARE IN THE MAPPED AREA. THIS AREA IS ONLY ONE FOURTH OF THE DISC. THE PROGRAM READS FILE INDEX BLOCKS AND CHECKS FOR POINTERS INTO THE MAPPED AREA. IF ONE IS FOUND, THE PROGRAM WILL REQUEST THE MONITOR TO CLEAR ONE BIT IN THE BIT MAP. CONFLICTS ARE PRINTED AND THE FINAL PHASE WILL DELETE A FILE INDEX BLOCK.
COMMENTS:
A DETAILED GENERATION PROCEDURE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES. THERE ARE THREE SYMBOLIC FILES AND FIVE BINARY FILES IN THIS PACKAGE

- 870013 940 DISC SHAP
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL COPY THE MONITOR INTO MEMORY. USE OF BREAKPOINTS 2-4 DETERMINE WHAT DISC WILL BE USED TO COPY FROM. BREAKPOINT 1 IS NOW USED TO SELECT EITHER 84K OR 48K AS THE MEMORY SIZE.
COMMENTS:
A UTILITY TAPE IS THE COPY WHICH WILL BE SENT ON REQUEST. NOTE: DISC DUMP/LOAD IS INCLUDED AS PART OF THE UTILITY TAPE.
- 870014 940 940 DISC DUMP/LOAD
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL EITHER COPY DATA FROM THE DISC TO MAGNETIC TAPE OR COPY DATA FROM MAGNETIC TAPE TO DISC. THIS PROGRAM IS DELIVERED ON A UTILITY TAPE REEL IN A STANDARD FILL FORM. NOTE: ALSO INCLUDED IS DSHAP (DISC DUMP/LOAD)
COMMENTS:
A DETAILED GENERATION DESCRIPTION FILE IS INCLUDED WITH THE BINARY AND SYMBOLIC FILES.
- 870016 940 940 TIME-SHARING SYSTEM EXECUTIVE
AUTHOR: XEROX
ABSTRACT:
THE EXECUTIVE IS THE INTERFACE BETWEEN THE 940 TIME-SHARING SYSTEM MONITOR AND THE 940 TERMINAL USER. THE EXECUTIVE IS RESPONSIBLE FOR USER IDENTIFICATION, MAINTENANCE OF USER FILE DIRECTORIES, SUPERVISION OF THE USE OF THE SYSTEM VIA LIMITING ACCESS TO COMMANDS WHICH REQUIRE SPECIAL STATUS. THE EXECUTIVE CONSISTS OF SIX PACKAGES WHICH, WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE EXECUTIVE FUNCTIONS OF THE 940 TIME-SHARING SYSTEM
COMMENTS:
THE EXECUTIVE AND THE MONITOR OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.
- 870017 940 940 TIME SHARING SYSTEM MONITOR
AUTHOR: XEROX
ABSTRACT:
THE MONITOR IS THE SUPERVISOR OF THE USE OF ALL SYSTEM RESOURCES. IT IS RESPONSIBLE FOR SCHEDULING THE USE OF THE CPU, MEMORY MANAGEMENT, I/O DEVICE MANAGEMENT, ALL INTERRUPT PROCESSING, TELETYPE I/O SUPERVISION AND A VARIETY OF USER SERVICES. THE MONITOR CONSISTS OF FOURTEEN PACKAGES WHICH WHEN PROPERLY ASSEMBLED AND LOADED PERFORM ALL OF THE MONITOR FUNCTIONS OF THE 940 TIME-SHARING SYSTEM.
COMMENTS:
THE MONITOR AND EXECUTIVE OF THE 940 TIME-SHARING SYSTEM INTERACT IN SUCH A MANNER THAT CHANGES IN ONE MAY REQUIRE CHANGES IN THE OTHER AND OFTEN REQUIRE AT LEAST THAT BOTH THE MONITOR AND EXECUTIVE SHALL BE REGENERATED.
- 870018 940 940 TAP
AUTHOR: XEROX
ABSTRACT:
940 TAP IS A TWO PASS TEXT-ORIENTED MACRO ASSEMBLER FEATURING A WIDE RANGE OF CONDITIONAL AND ITERATIVE CAPABILITIES, TOGETHER WITH EXTERNAL LABEL AND OPERATION DEFINITIONS. PARAMETRIC PROGRAMMING CAPACITY IS FURTHER ENHANCED BY NO RESTRICTIONS BEING PLACED UPON THE RECURSIVE INVOCATION AND DEFINITION OF MACROS. TWO FORMS OF OBJECT CODE ARE AVAILABLE: (1) FULLY RELOCATABLE, COMPLETE WITH SYMBOL TABLE FOR INPUT TO DDT; (2) ABSOLUTE SELF-FILLING BINARY.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 TAP, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /TAP-N.0/.
- 870019 940 940 QED
AUTHOR: XEROX
ABSTRACT:
940 QED IS A SOPHISTICATED TEXT EDITOR WHICH ALLOWS ANY SYMBOLIC FILE IN THE 940 SYSTEM TO BE QUICKLY EDITED.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 QED, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /QED-N.0/.
- 870020 940 940 FORTRAN II COMPILER
AUTHOR: XEROX
ABSTRACT:
940 FORTRAN II IS COMPOSED OF THREE PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN AN EXTENDED FORTRAN II SYNTAX INCORPORATING MANY FORTRAN IV FEATURES, SUCH AS N-DIMENSIONAL ARRAYS, GENERALIZED SUBSCRIPT FORMATION, AND MIXED-MODE EXPRESSIONS; (2) A RUN-TIME SYSTEM, CONSISTING OF RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID; (3) A LIBRARY WHOSE ENTRIES ARE CONDITIONALLY LOADED DEPENDING ON THE NEEDS OF THE USER PROGRAM. THE PROCESSOR RUNS ONLY UNDER TSS-2.0 MONITOR.
COMMENTS:
THE GENERATION PROCEDURE IS GIVEN IN THE SYMBOLIC FILE /FII-N.0/.

- 870021 940 940 DDT
AUTHOR: XEROX
ABSTRACT:
940 DDT IS A HIGHLY INTERACTIVE DEBUGGING TOOL, COUPLED WITH A SOPHISTICATED LOADER, HAVING THE FOLLOWING FEATURES: (1) BREAKPOINTING WHICH ALLOWS THE USER TO INSPECT THE CONDITION OF HIS PROGRAM AT STRATEGIC POINTS AND INTERVALS; (2) BLOCK STRUCTURE MANIPULATION OF SETS OF SYMBOLS BELONGING TO LOGICALLY SEPARATE PROGRAMS; (3) LIMITED ASSEMBLY AND, OPTIONALLY, IMMEDIATE EXECUTION OF INDIVIDUAL INSTRUCTIONS; (4) ASSEMBLY, INSERTION, AND DELETION OF INSTRUCTIONS OR DATA; (5) A VARIETY OF SERVICE FUNCTIONS SUCH AS WORD SEARCHES, RELABELING ALTERATION, CONDITIONAL SAVE AND LOAD OF SYMBOL TABLES, ETC.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 DDT, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /DDT-N.O/.
- 870022 940 940 CONVERSATIONAL FORTRAN
AUTHOR: XEROX
ABSTRACT:
940 CONVERSATIONAL FORTRAN IS COMPOSED OF THREE PARTS: (1) AN INCREMENTAL COMPILER, WHICH ALLOWS THE STATEMENT-BY-STATEMENT PREPARATION OF PROGRAMS WRITTEN IN A LANGUAGE CLOSELY RESEMBLING FORTRAN IV; (2) A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER; (3) A COMMAND PROCESSOR, WHICH PERMITS INTERACTIVE CONTROL OF THE COMPILER AND RUN-TIME SYSTEM, PROVIDING EDIT, DEBUG, AND DIRECT STATEMENT EXECUTION FACILITIES.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CONVERSATIONAL FORTRAN, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /FOR-N.O/.
- 870023 940 940 CAL
AUTHOR: XEROX
ABSTRACT:
XDS CAL IS COMPOSED OF TWO PARTS: (1) AN INCREMENTAL COMPILER AND EDITOR, WHICH ALLOWS THE STATEMENT BY STATEMENT PREPARATION OF PROGRAMS WRITTEN IN AN ALGEBRAIC LANGUAGE CLOSELY RESEMBLING JOSS; (2) A RUN-TIME SYSTEM, WHICH INTERPRETIVELY EXECUTES THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 CAL, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /CAL-N.O/.
- 870024 940 940 BASIC
AUTHOR: XEROX
ABSTRACT:
940 BASIC IS COMPOSED OF TWO PARTS: (1) A COMPILER, WHICH TRANSLATES PROGRAMS WRITTEN IN A SIMPLE ALGEBRAIC LANGUAGE ON A STATEMENT-BY-STATEMENT BASIS; (2) A RUN-TIME SYSTEM, WHICH CONTROLS EXECUTION OF THE CODE GENERATED BY THE COMPILER, AND IN ADDITION PERMITS THE IMMEDIATE COMPILATION AND EXECUTION OF STATEMENTS WHICH DO NOT BECOME PART OF THE RESIDENT PROGRAM.
COMMENTS:
THIS PACKAGE CONTAINS ALL SYMBOLIC FILES NECESSARY FOR THE GENERATION OF 940 BASIC, INCLUDING A DETAILED DESCRIPTION OF THE GENERATION PROCEDURE, WHICH IS GIVEN IN THE SYMBOLIC FILE /BAS-N.O/.
- 870025 940 940 TSS MONITOR, EXEC, AND PROCESSORS (CO
AUTHOR: XEROX
ABSTRACT:
THIS IS A COVER NUMBER FOR ALL THE XDS 940 PROCESSORS, INCLUDING THE MONITOR AND EXECUTIVE. IT INCLUDES THE FOLLOWING PROCESSORS AND UTILITIES: QED-870019, DDT-870021, TAP-870018, BASIC-870024, CAL-870023, FORTRAN II-870020, LIB-870027, FORTRAN II R/T-870028, CONVERS. FORTRAN-870022, WRITE SUBSYSTEMS-RAD-870010, OPERATORS EXECUTIVE-870011, MAP DISC-870012, EXECUTIVE-870016, MONITOR-870017.
- 870026 940 940 TSS USERS UTILITY PROGRAMS
AUTHOR: L. D. MCDANIEL - XDS
ABSTRACT:
SIXTY-ONE ROUTINES IN THE 940 FILES FORMAT. FILES ARE RETRIEVED USING MAGTAPE HANDLER. THE FOURTH FILE IS THE INDEX TO UTILITY PROGRAMS.
COMMENTS:
THE PROGRAMS ARE USED TO SOLVE RELATED PROBLEMS IN BUSINESS, SCIENCE, AND MATH. ADDITIONAL PROGRAMS DEMONSTRATE 940 SUB-SYSTEMS.
- 870027 940 FORTRAN II LIBRARY FOR THE XDS 940
AUTHOR: XEROX
ABSTRACT:
THIS IS A PART OF SDS940 FORTRAN II SYSTEM. IT CONSISTS OF LIBRARY ROUTINES WHICH ARE CONDITIONALLY LOADED DEPENDING UPON THE NEEDS OF THE USER PROGRAMS.
- 870028 940 FORTRAN II RUNTIME SYSTEM
AUTHOR: XEROX
ABSTRACT:
THIS IS A PART OF FORTRAN II 940 SYSTEM. IT CONSISTS OF RESIDENT PROGRAMMED OPERATORS AND SERVICE ROUTINES, TOGETHER WITH AN OPTIONALLY LOADED DEBUG AID.

- 890158 9-SERIES ARCSIN AND ARCCOS FUNCTIONS
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
THIS FORTRAN II SUBROUTINE COMPUTES THE ARC SINE AND ARC COSINE OF A VALUE AND RETURNS THE ANGLE IN RADIANS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 890180. PROGRAM REQUIRES 234 DECIMAL MEMORY LOCATIONS. REQUIRES THE XDS FORTRAN II SYSTEM.
- 890159 9-SERIES FACTORIAL ROUTINE
AUTHOR: SAM H. HARLIN
ABSTRACT:
THIS FORTRAN II SUBROUTINE CALCULATES THE FACTORIAL OF A FIXED POINT VALUE.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00800002. PROGRAM REQUIRES 39 DECIMAL MEMORY LOCATIONS AND THE FORTRAN II SYSTEM.
- 890160 9-SERIES HYPERBOLIC SINE, COSINE AND TANGENT
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
FORTRAN II ROUTINE TO CALCULATE HYPERBOLIC SINE, COSINE AND TANGENT.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00820001. PROGRAM REQUIRES 38 DECIMAL LOCATIONS FOR HSIN AND HCOS AND 40 DECIMAL LOCATIONS FOR HTAN. TOTAL OF 118 DECIMAL LOCATIONS AND FORTRAN II SYSTEM REQUIRED.
- 890161 9-SERIES POLYNOMIAL ADDITION OR SUBTRACTION
AUTHOR: D. C. BAXTER
ABSTRACT:
ADDS OR SUBTRACTS TWO POLYNOMIALS. ONE POLYNOMIAL MAY BE MULTIPLIED BY A SCALAR DURING THE PROCESS.
- 890162 9-SERIES POLYNOMIAL PRODUCT
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO FORM THE PRODUCT OF TWO POLYNOMIALS WHOSE COEFFICIENTS ARE AVAILABLE AS LINEAR ARRAYS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00002. PROGRAM REQUIRES 100 DECIMAL LOCATIONS OF STORAGE. RUNS UNDER THE FORTRAN II SYSTEM.
- 890163 9-SERIES POLYNOMIAL DIVISION, POLYDIV
AUTHOR: BAXTER
ABSTRACT:
CALCULATES THE QUOTIENT AND REMAINDER FORMED ON DIVIDING TWO POLYNOMIALS.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NO. 00C00003.
- 890164 9-SERIES LINEAR POLYNOMIAL SUBSTITUTION, POLYSUBS
AUTHOR: D. C. BAXTER
ABSTRACT:
COMPUTES THE RATIONAL POLYNOMIAL IN Z WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A POLYNOMIAL F(S).
- 890165 9-SERIES RATIONAL POLYNOMIAL SUBSTITUTION
AUTHOR: D. C. BAXTER
ABSTRACT:
COMPUTES THE RATIONAL POLYNOMIAL IN Z, $XN(Z)/XD(Z)$, WHICH RESULTS FROM SUBSTITUTING ANOTHER RATIONAL POLYNOMIAL FOR THE VARIABLE S IN A RATIONAL POLYNOMIAL FUNCTION OF S, $P(S)/Q(S)$.
- 890166 9-SERIES SERIES EXPANSION OF RATIONAL POLYNOMIAL
AUTHOR: R. GAGNE, D. C. BAXTER
ABSTRACT:
EXPANDS A RATIONAL POLYNOMIAL INTO A TAYLOR SERIES.
- 890167 9-SERIES CLIMB A HILL-CLIMBING SUBROUTINE
AUTHOR: C. M. WOODSIDE
ABSTRACT:
A FORTRAN II SUBROUTINE SUBPROGRAM TO FIND THE SET OF ARGUMENTS WHICH MAXIMIZES OR MINIMIZES A FUNCTION, SUBJECT TO CONSTRAINTS ON THE ARGUMENTS OR ON OTHER FUNCTIONS OF THEM.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00007. PROGRAM REQUIRES 2134 DECIMAL LOCATIONS OF MEMORY AND THE FORTRAN II SYSTEM.

- 890168 9-SERIES PATTERN OPTIMIZER
AUTHOR: PAUL G. FRIEDMAN
ABSTRACT:
A FORTRAN II PROGRAM TO MINIMIZE A FUNCTION OF UP TO 5 VARIABLES.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY NUMBER 00C00008. PROGRAM REQUIRES 276 WORDS OF MEMORY. REQUIRES A SUBROUTINE LABELED EVAL, CODING INDICATED IN THE WRITE-UP.
- 890169 9-SERIES BAIRSTON ROOTFINDER
AUTHOR: D. C. BAXTER
ABSTRACT:
A FORTRAN II SUBROUTINE SUBPROGRAM TO CALCULATE THE REAL OR COMPLEX ROOTS OF A POLYNOMIAL EQUATION.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20001 PROGRAM REQUIRES 748 DECIMAL MEMORY LOCATIONS AND SUBROUTINE SQRT.
- 890170 9-SERIES ROOTS OF POLYNOMIALS
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
TO ALLOW INPUT OF THE COEFFICIENTS OF A POLYNOMIAL FROM PAPER TAPE OR TYPEWRITER, AND TO COMPUTE AND TYPE OUT ITS REAL OR COMPLEX ROOTS. THE EFFECT OF AN ACCURACY PARAMETER EPS AND OF A CONVERGENCE LIMIT CAN ALSO BE TESTED.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20002 REQUIRES BAIRSTON ROOTFINDER PROGRAM (PREV. NO. 00C20001) AND A TOTAL OF 3171 (DEC) MEMORY LOCATIONS
- 890171 9-SERIES ROOTBIS, ROOTFINDING BY BISECTION
AUTHOR: MISS F. T. STOCK - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO EVALUATE ONE REAL ROOT OF A FUNCTION IN THE VICINITY OF AN INITIAL GUESS. THIS METHOD SHOULD BE USED ONLY WHERE OTHER METHODS FAIL AS IT IS NOT TIME EFFICIENT.
COMMENTS:
PREVIOUSLY XDS USERS GROUP LIBRARY PROGRAM 00C20003 REQUIRES SUBROUTINES (FUNCTION) F(X) AND ABS. 160 (DEC) MEMORY LOCATIONS.
- 890172 9-SERIES LEGENDRE POLYNOMIAL
AUTHOR: MISS F. T. STOCK
ABSTRACT:
THE PROGRAM EVALUATES THE LEGENDRE POLYNOMIAL $P_N(X) = (1/2^{NN}) D_N/DXN(X^2-1)^N$ BY THE RECURSION FORMULA $P_{N+1} = PN(X) + (N/(N+1))(XPN - PN-1)$.
- 890173 9-SERIES GAMMA FUNCTION
AUTHOR: MISS F. T. STOCK
ABSTRACT:
EVALUATION OF THE FUNCTION $(1+I)^F$ WHERE I IS THE INTEGRAL PORTION OF A NUMBER AND F IS THE FRACTIONAL PORTION, OR ALTERNATIVELY TO COMPUTE THE FACTORIAL OF AN INTEGER.
- 890174 9-SERIES BESSEL FUNCTION J0, J1 Y0, Y1
AUTHOR: MISS F. T. STOCK
ABSTRACT:
EVALUATION OF BESSEL FUNCTIONS OF THE FIRST AND SECOND KIND OF ORDER ZERO AND ONE.
- 890175 9-SERIES REAL EXPONENTIAL INTEGRAL
AUTHOR: MISS F. T. STOCK
ABSTRACT:
THE PROGRAM COMPUTES THE REAL EXPONENTIAL INTEGRAL $-E1(-X) = \int_{-X}^{\infty} -U/U DU$ FOR ANY REAL ARGUMENT GREATER THAN ZERO BY EVALUATING AN APPROXIMATING POLYNOMIAL.
- 890176 9-SERIES BESSEL FUNCTION KN(X).
AUTHOR: MISS F. T. STOCK
ABSTRACT:
THE PROGRAM EVALUATES THE MODIFIED BESSEL FUNCTION OF THE SECOND KIND FOR INTEGRAL AND HALF-INTEGRAL ORDER.
- 890177 9-SERIES BESSEL FUNCTION-FIRST KIND, ORDER ZERO
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE BESSEL FUNCTION OF THE FIRST KIND, ORDER ZERO, OF A FLOATING POINT ARGUMENT, X.

- 890178 9-SERIES BESSEL FUNCTION SUBROUTINE
AUTHOR:G. V. CONIOLIO - BAUSCH + LOMB
ABSTRACT:
TO COMPUTE THE VALUES OF THE BESSEL FUNCTIONS $J_p(x)$ FOR REAL ARGUMENT x AND THE SET OF ALL INTEGER ORDERS FROM 0 TO N .
- 890179 9-SERIES BESSEL FUNCTIONS-J0,J1,Y0,Y1,I0,I1,K0,K1
AUTHOR:P. VIEILLARD - CAE, CITEC
ABSTRACT:
TO COMPUTE THE FLOATING POINT BESSEL FUNCTIONS, $J_0, J_1, Y_0, Y_1, I_0, I_1, K_0, K_1$, OF A SPECIFIED FLOATING POINT ARGUMENT.
- 890180 9-SERIES GRADIENT MINIMIZATION ROUTINE - FPMIN
AUTHOR:C. H. WOODSIDE - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A FORTRAN II SUBROUTINE TO FIND THE MINIMUM OF A DIFFERENTIABLE FUNCTION.
- 890181 9-SERIES DEFINITE INTEGRAL EVALUATION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM CALCULATES THE INTEGRAL OF A FUNCTION BETWEEN SPECIFIED LIMITS AND WITH SPECIFIED INTERVALS. THE OPERATOR MUST PROVIDE A FUNCTION $f(x)$ WHICH EVALUATES THE INTEGRAND.
- 890182 9-SERIES DOUBLE INTEGRATION BY SIMPSONS
AUTHOR:MISS F. T. STOCK
ABSTRACT:
THE PROGRAM CALCULATES THE DOUBLE INTEGRAL OF A FUNCTION GIVEN THE INNER AND OUTER LIMITS OF INTEGRATION AND THE NUMBER OF INTERVALS TO BE USED BY APPLYING SIMPSONS RULE. THE OPERATOR MUST PROVIDE A FUNCTION $V(x,y,z)$ WHICH EVALUATES THE INTEGRAND.
- 890183 9-SERIES RUNGE-KUTTA INTEGRATION
AUTHOR:RICHARD C. BOWMAN - XDS
ABSTRACT:
TO PROVIDE A SOLUTION FOR FIRST-ORDER, SECOND-ORDER, OR COMBINATION OF FIRST AND SECOND ORDER DIFFERENTIAL EQUATIONS.
- 890184 9-SERIES SOLUTION OF DIFFERENTIAL EQUATIONS R-K-0
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A PAIR OF FORTRAN II SUBROUTINE SUBPROGRAMS TO ALLOW THE FINITE DIFFERENCE SOLUTION OF A SET OF SIMULTANEOUS, FIRST-ORDER, ORDINARY DIFFERENTIAL EQUATIONS BY THE RUNGE-KUTTA-GILL PROCEDURE. A MAIN PROGRAM IS ALSO INCLUDED AS AN EXAMPLE, WHICH COULD BE USED TO INPUT AND SOLVE COMPLETE EQUATIONS.
- 890185 9-SERIES LAGRANGE INTERPOLATION
AUTHOR:MISS F. T. STOCK
ABSTRACT:
GIVEN $N+1$ CORRESPONDING PAIRS OF DATA POINTS, WHERE THE VALUES OF THE INDEPENDENT VARIABLE MAY OR MAY NOT BE EQUIDISTANT, THE PROGRAM EVALUATES THE FUNCTION OF ANY SPECIFIED POINT USING LAGRANGE'S FORMULA OF INTERPOLATION.
- 890186 9-SERIES POLYNOMIAL CURVE FIT
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
THE PROGRAM FITS A POLYNOMIAL OF DEGREE LESS THAN 11 THROUGH A SET OF DATA POINTS USING THE METHOD OF LEAST SQUARES. PROVISION IS MADE FOR CHOOSING DEGREE, NUMBER OF POINTS, AND FIRST POINT TO BE USED.
- 890187 9-SERIES LEAST SQUARES POLYNOMIAL
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
PROGRAM READS IN FROM PAPER TAPE OR TYPEWRITER UP TO 200 DATA POINTS. LEAST SQUARES POLYNOMIAL IS COMPUTED AND COEFFICIENTS TYPED OUT. MAXIMUM AND ROOT-MEAN-SQUARE DEVIATION OF THIS CURVE FROM DATA POINTS IS TYPED OUT. DEGREE, NUMBER OF DATA POINTS TO BE USED, AND FIRST POINT TO BE USED ARE TYPED IN.
- 890188 9-SERIES FOURIER COEFFICIENTS PERIODIC FUNCTIONS
AUTHOR:W. B. LENG - TMC
ABSTRACT:
A FORTRAN PROGRAM FOR COMPUTING THE FOURIER SERIES COEFFICIENTS OF A PERIODIC FUNCTION AND THE CURVE DERIVED FROM THEM.

- 890189 9-SERIES FREQUENCY BY PRONY'S METHOD
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES AN APPROXIMATE FREQUENCY COMPUTATION FOR EMPIRIC DATA REPRESENTABLE BY A SINE WAVE.
- 890190 9-SERIES SINE WAVE MONITOR
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A LEAST SQUARE CURVE FIT, INCLUDING THE FREQUENCY, TO A SINE WAVE OF EMPIRIC DATA. ALSO PROVIDES A FOURIER COEFFICIENT RETRIEVAL WHEN ONE USES THE ROUTINE TO SUBTRACT OUT THE LOWER HARMONICS.
- 890191 9-SERIES CURVE/SURFACE FIT ARBITRARY FUNCTION
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
THIS ROUTINE IS USED TO CURVE FIT EMPIRIC DATA TO ANY USER SELECTED COMPUTABLE FUNCTION. BESIDES THE USUAL POLYNOMIAL FITTING, THIS ROUTINE IS ALMOST AS EASILY USED TO CURVE FIT WITH EXPONENTIALS, FOURIER EXPANSIONS, ALSO DATA SMOOTHING, INSTRUMENT CALIBRATION CURVES, DAMPED SINE WAVES, SAWTOOTH WAVES, DOPPLER CURVES, ETC.
- 890192 9-SERIES NON-LINEAR CURVE FIT PROGRAM
AUTHOR:R. E. AUSTIN - NASA
ABSTRACT:
TO DETERMINE TYPE OF CURVE THAT IS REPRESENTATIVE OF PARTICULAR INPUT POINTS AND COMPUTE ADDITIONAL POINTS.
- 890193 9-SERIES MATRIX MULTIPLICATION
AUTHOR:D. C. BAXTER
ABSTRACT:
COMPUTES THE PRODUCT OF TWO MATRIX ARRAYS.
- 890194 9-SERIES REAL MATRIX INVERSION (RMINV)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE THE INVERSE AND DETERMINANT OF ANY SQUARE MATRIX OF REAL ELEMENTS.
- 890195 9-SERIES REAL MATRIX MULTIPLY (RMMUL)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE PRODUCT OF TWO MATRICES OF REAL ELEMENTS.
- 890196 9-SERIES REAL MATRIX TRANSPOSE (RMTRA)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COPY A RECTANGULAR MATRIX OF REAL ELEMENTS, IN TRANSPOSED FORM, INTO ANOTHER REGION OF MEMORY. THE TRANSPOSED MATRIX MAY NOT OVERLAY THE ORIGINAL MATRIX.
- 890197 9-SERIES REAL MATRIX ADDITION (RHADD)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE SUM OF TWO RECTANGULAR MATRICES.
- 890198 9-SERIES REAL MATRIX SUBTRACTION(RMSUB)
AUTHOR:W.S.LASOR, R.C.BOWMAN - XDS
ABSTRACT:
TO COMPUTE AND STORE THE DIFFERENCE OF TWO RECTANGULAR MATRICES
- 890199 9-SERIES BOOLEAN MATRIX (FLAG PACKING)
AUTHOR:K. P. AMBROSE - DOUGLAS AIRCRAFT CORP.
ABSTRACT:
SAVES CORE STORAGE WHEN LARGE ARRAYS OF YES-NO FLAGS ARE REQUIRED. FOUR POSSIBLE OPERATIONS (INVERT, SET TO ZERO, SET TO ONE, AND TEST) CAN BE PERFORMED ON A DECISION MATRIX WHICH NEEDS ONLY 1/24TH THE USUAL CORE STORAGE.
- 890200 9-SERIES DETERMINANT EVALUATION
AUTHOR:D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
COMPUTES THE DETERMINANT OF A MATRIX USING THE METHOD OF TRIANGULARIZATION.

- 890201 9-SERIES MATRIX INVERSION, DETERMINANT CALCULATION
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
GAUSS-JORDAN ELIMINATION METHOD IS USED TO INVERT MATRIX AND CALCULATE DETERMINANT. ROW AND COLUMN ARE SEARCHED FOR LARGEST ELEMENT TO BE USED AS PIVOT.
- 890202 9-SERIES SOLUTION OF SIMULTANEOUS EQUATIONS
AUTHOR: D. C. BAXTER - NATIONAL RESEARCH COUNCIL
ABSTRACT:
THE GAUSS-JORDAN ELIMINATION METHOD IS USED TO SOLVE SIMULTANEOUS ALGEBRAIC EQUATIONS. ROW INTERCHANGING IS USED TO PRODUCE A NON-ZERO PIVOT ELEMENT.
- 890203 9-SERIES PRINCIPAL AXES FACTOR ANALYSIS
AUTHOR: SHELDON KLEE - XDS
ABSTRACT:
A PROGRAM THAT EXTRACTS ANY NUMBER OF FACTORS FROM A CORRELATION MATRIX.
- 890204 9-SERIES MATRIX PACKAGE FOR ARITHMETIC OPERATIONS
AUTHOR: H. S. LASOR - XDS
ABSTRACT:
PROVIDES THE USER WITH A SET OF SUBROUTINES ENABLING HIM TO PERFORM ARITHMETIC OPERATIONS ON MATRICES OF ANY SIZE AND TO FACILITATE THE MANIPULATION OF THESE ARRAYS IN STORAGE.
- 890205 9-SERIES GAUSSIAN NORMAL PROBABILITY ORDINATE
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY FUNCTION ORDINATE OF AN ARGUMENT.
- 890206 9-SERIES GAUSSIAN NORMAL PROBABILITY INTEGRAL
AUTHOR: SAM H. HARLIN - XDS
ABSTRACT:
TO COMPUTE THE GAUSSIAN NORMAL PROBABILITY INTEGRAL OF AN ARGUMENT USING AN APPROXIMATION FORMULA.
- 890207 9-SERIES SUPERCOMPRESSIBILITY FACTORS NATURAL GAS
AUTHOR: TOM WYRICK - TEXAS GAS TRANSMISSION CORP.
ABSTRACT:
A FORTRAN PROGRAM TO CALCULATE AMERICAN GAS ASSOCIATION SUPERCOMPRESSIBILITY FACTORS FOR NATURAL GAS FROM 0 TO 5000 PSIG OVER A RANGE OF -40 TO 240 F.
- 890208 9-SERIES MULTIPLE LINEAR REGRESSION
AUTHOR: P. O. FRIEDMAN
ABSTRACT:
A FORTRAN II PROGRAM FOR MULTIPLE LINEAR REGRESSION. THIS PROGRAM ACCEPTS INPUT DATA AND SETS UP THE NORMAL EQUATION MATRIX, WHICH IS THEN INVERTED IN THE LSQ SUBROUTINE.
- 890209 9-SERIES LEAST SQUARE SUBROUTINE, LSQ
AUTHOR: J. GAINES - XDS
ABSTRACT:
A FORTRAN II SUBPROGRAM TO INVERT THE NORMAL EQUATION MATRIX AND TYPE IN REGRESSION COEFFICIENTS AND OTHER STATISTICAL DATA.
- 890210 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (IRAND)
AUTHOR: J. GAINES - XDS
ABSTRACT:
IRAND IS A FORTRAN FUNCTION SUBROUTINE OF ONE PARAMETER, THE SEED OF A RANDOM NUMBER SEQUENCE. THE VARIABLE I IN THE FUNCTION CALL IRAND (I) IS THE SEED AND IS ORIGINALLY SET BY THE USER. EACH TIME IRAND (I) IS USED, THE RANDOM NUMBER IS LEFT IN I AND IF I IS UNDISTURBED BETWEEN IRAND (I) USES, A SEQUENCE OF FULL, SINGLE PRECISION INTEGERS WITH TOTAL PERIOD OF 224 IS GENERATED. THE SEQUENCE CAN BE RE-INITIALIZED OR CHANGED BY SETTING I TO THE DESIRED VALUE. CALLING SEQUENCE IS IRAND (I). RESULT IS THE RANDOM NUMBER IN I. RANGE OF VALUES IS -8388608 TO +8388607.
- 890211 9-SERIES RANDOM NUMBER GENERATOR
AUTHOR: MICHAEL LINDENMEYER - NASA
ABSTRACT:
A FORTRAN II FUNCTION WHICH GENERATES (A) RANDOM NUMBERS FROM THE UNIFORM DISTRIBUTION, NORMALIZED BETWEEN -1.0 AND +1.0, OR (B) RANDOM NUMBERS TAKEN FROM THE NORMAL (GAUSSIAN) DISTRIBUTION WITH MEAN 0.0 AND VARIANCE 1.0. A FORTRAN TEST PROGRAM IS PROVIDED AS A DEMONSTRATION OF THE USE OF THE PROGRAM AND TO COMPUTE RANDOM NUMBERS AS A CHECK OF THE VALIDITY OF THE ROUTINE.

- 890212 9-SERIES RANDOM NUMBER GENERATOR, RANDU
AUTHOR:BERNARD A. SOBEL - ETHYL CORP.
ABSTRACT:
INITIALLY ENTER THE FUNCTION WITH THE FOLLOWING TYPE STATEMENT: X=RANOU(1). THIS ENABLES THE PROGRAM TO CYCLE SO THAT THE STARTING NUMBERS ARE INDETERMINATE. SENSE SWITCHES 4 AND 3 ARE INITIALLY RESET AND MAY BE SET AT ANY TIME AFTER FIRST ENTRY (IN ORDER OF SSW4 AND THEN SSW3). ONCE USED, THE SENSE SWITCHES ARE NEVER RECALLED AND MAY BE USED FOR OTHER PURPOSES. ALL SUBSEQUENT ENTRIES TO THIS FUNCTION ARE AS FOLLOWS: X= RANDU(2).
- 890213 9-SERIES UNCORRELATED RANDOM NUMBER GENERATOR
AUTHOR:HILLIAM B. KENDALL - JET PROPULSION LABS
ABSTRACT:
A FAST AND SIMPLE ROUTINE FOR THE GENERATION OF UNCORRELATED PSEUDO-RANDOM NUMBERS (47-BITS), UNIFORMLY DISTRIBUTED BETWEEN ZERO AND ONE. THIS ROUTINE IS SELF-LOADING, RELOCATABLE AND IS LOADED BY THE NORMAL FILL PROCEDURE. THE ROUTINE IS ENTERED BY A BRM INSTRUCTION. THE CONTENTS OF THE A AND B REGISTERS ARE DESTROYED AND REPLACED WITH THE NEXT POSITIVE DOUBLE PRECISION 47-BIT PSEUDO-RANDOM NUMBER, THE MOST SIGNIFICANT 23 BITS IN THE A REGISTER, THE LEAST SIGNIFICANT 24 BITS IN THE B REGISTER.
- 890214 9-SERIES PSEUDO-RANDOM NUMBER GENERATOR (RANDX)
AUTHOR:C. M. WOODSIDE - NATIONAL RESEARCH COUNCIL
ABSTRACT:
GENERATES A SINGLE FLOATING-POINT NORMAL PSEUDO-RANDOM VARIATE, WITH UNIT STANDARD DEVIATION.
- 890215 9-SERIES PSEUDO-RANDOM NUMBER SUBROUTINE (RAND)
AUTHOR:J. GAINES - XDS
ABSTRACT:
PROVIDES A RANDOM NUMBER GENERATOR IN THE FORM OF A MACHINE LANGUAGE SUBROUTINE.
- 890217 9-SERIES LINEAR REGRESSION ANALYSIS
AUTHOR:S. KLEE - XDS
ABSTRACT:
DESIGNED AS AN AID IN LINEAR REGRESSION ANALYSIS TO DETERMINE THE BEST FIT OF COMBINATIONS OF DEPENDENT AND INDEPENDENT VARIABLES, WHERE LITTLE IS KNOWN OF THE FUNCTIONAL RELATIONSHIPS, OR OF THE VARIABLES THAT ARE IMPORTANT. A SUPPLEMENTARY PROGRAM IS PROVIDED THAT WILL COMPUTE THE REGRESSION COEFFICIENTS ASSOCIATED WITH SELECTED OUTPUT VARIABLE COMBINATIONS FROM THE ABOVE PROGRAM.
- 890219 9-SERIES FORTRAN II MAGNETIC TAPE I/O ROUTINE
AUTHOR:R.R.ROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
A FORTRAN CALLABLE SUBROUTINE TO PROVIDE I/O CONTROL FOR A MAGNETIC TAPE UNIT, NUMBER 0 THROUGH 7, ON THE W, Y, C, OR D CHANNEL.
- 890220 9-SERIES READ BLOCKED INPUT FROM MAG. TAPE
AUTHOR:MARY SPENCER - UNIV. OF CHICAGO
ABSTRACT:
A SUBROUTINE FOR THE MODIFICATION OF THE FORTRAN SYSTEM WHICH WILL ALLOW THE SYSTEM TO ACCEPT BLOCKED LOGICAL RECORDS AS BCD INPUT.
- 890221 9-SERIES CONVOLUTION & FILTERING UNIT I/O ROUTINE
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
PROGRAM TO FACILITATE INPUT/OUTPUT TO THE XDS CFE-1 UNIT TO COMPUTE (1) THE CORRELATION OF TWO TIME SERIES, (2) THE CONVOLUTION OF A TIME SERIES WITH A FILTER OPERATOR, AND (3)THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.
- 890222 9-SERIES CONVOLUTION,CORR,FILTER., OF TIME SERIES
AUTHOR:J. E. MCCARRAN - XDS
ABSTRACT:
ROUTINE COMPUTES THE CORRELATION OF TWO TIME SERIES, THE CONVOLUTION OF A TIME SERIES WITH A FILTER, OR THE OPERATION OF A TIME-REVERSED FILTER ON A TIME SERIES.
- 890223 9-SERIES BLANK PAPER TAPE LEADER GENERATOR
AUTHOR:DR. D. GOSPODNETIC
ABSTRACT:
PUNCHES 12 CHARACTERS OF BLANK PAPER TAPE LEADER.
- 890224 9-SERIES FAST FORTRAN PRINT SUBROUTINE
AUTHOR:JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
INCREASES THE SPEED OF THE XDS FORTRAN PRINT ROUTINE. THIS PROGRAM CHECKS FOR ZONES AND PRINTS ONLY THOSE REQUIRED.

- 890225 9-SERIES OSCILLOSCOPE DISPLAY ROUTINE
AUTHOR: S. KLEE - XDS
ABSTRACT:
PROVIDES FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.
- 890226 9-SERIES PLOT PACKAGE FOR XDS 9175 PLOTTER
AUTHOR: A. SAVITZKY - PERKIN-ELMER
ABSTRACT:
PROVIDES USERS OF XDS 900 SERIES COMPUTERS AND XDS 9175 PLOTTERS (CALCOMP) THE CAPABILITY OF COMPREHENSIVE GRAPHICAL OUTPUT DISPLAY; OR TO USE ANY PART OF THE PACKAGE AS NECESSARY
- 890227 9-SERIES SCOOP TAPE PLOTTING ROUTINE, SCOPL-2
AUTHOR: G. LENTZ - UNIV. OF CHICAGO
ABSTRACT:
PROGRAM TO PLOT TAPES PREPARED BY THE CALCOMP SCOOP PROGRAMMING PACKAGE ON THE XDS ON-LINE PLOTTER.
- 890228 9-SERIES GENERAL GRAPHIC GENERA-PLOTTERTER
AUTHOR: R. T. MACINTYRE - BAUSCH + LOMB, INC.
ABSTRACT:
PROVIDES GENERAL PURPOSE PRODUCTION OF MASTER COPIES OF FORMS, CHARTS, DIAGRAMS, ETC. ON THE CALCOMP PLOTTER.
- 890229 9-SERIES ON-LINE PRINT ROUTINE, PRMLN
AUTHOR: L.A. LITTLETON, UNIVERSITY OF CHICAGO
ABSTRACT:
PRMLN PROVIDES A CONVENIENT CALLING SEQUENCE FORMAT FOR PRINTING ON THE TYPEWRITER AND/OR PRINTER.
- 890232 9-SERIES PLOT PACKAGE WITH LABELING
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
FACILITATES CREATION OF SCALED, LABELED PLOTS. THIS FORTRAN SUBROUTINE COMPUTES NEW VALUES OF VMIN AND VMAX WITH VARIABLE UNITS/IN. SELECTED FROM 1, 2, 4, 5 AND A POWER OF TEN. LONG IS THE DESIRED LENGTH OF THE AXIS IN INCHES AND IVSC IS THE POWER OF TEN FOUND BY THE SUBROUTINE.
- 890233 9-SERIES SEMI-LOG/LINEAR PLOT PACKAGE
AUTHOR: J. DARSIE - HONEYWELL, INC.
ABSTRACT:
FACILITATES PROGRAMMING SEMI-LOG PLOTS IN FORTRAN. A CALL TO A211AXIS SETS UP THE AXIS, DRAWS AND LABELS IT, AND SETS UP A211PLOT. A CALL THEN TO A211PLOT PLOTS THE CURVE.
- 890234 9-SERIES PLOT PACKAGE SPECIAL CHART A03
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
THIS PACKAGE ALLOWS USE OF THE SPECIAL CHART =A03. IT DRAWS THE AXIS, SCALES AS NECESSARY TO MAKE THE DATA FIT THE PAPER, AND SETS UP A200PLOT. THEN A200PLOT SHOULD BE CALLED TO PLOT THE CURVES. THESE SYMBOLS ARE .1 INCH IN SIZE. INTERRUPTS ON THE W BUFFER
- 890235 9-SERIES PLOT PACKAGE - NON-LABELING
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
THIS IS A NONLABELING FORTRAN PLOTTING SUBROUTINE WHICH WILL SET UP FOR PLOTTING AND DO AUTOMATIC SCALING FOR USE WITH A200 PLOT. TO OBTAIN MULTIPLE CURVES ON ONE AXIS(FRAME), ENTER A201 AXIS ONCE AND A200 PLOT ONCE FOR EACH CURVE.
- 890236 9-SERIES POLAR PLOT PACKAGE
AUTHOR: J. DARSIE - HONEYWELL, INC.
ABSTRACT:
THIS PACKAGE SETS UP A FRAME FOR A POLAR PLOT BY A CALL TO A212 AXIS AND THEN PLOTS IN A POLAR FASHION BY CALLING THE A212PLOT ROUTINE. IT ALSO LABELS THE AXIS.
- 890237 9-SERIES CALCOMP PLOTTER SUBROUTINE PACKAGE
AUTHOR: H. G. PECK, R. T. MACINTYRE - BAUSCH AND LOMB, INC.
ABSTRACT:
GENERAL PURPOSE PLOTTING SUBROUTINES WITH MINIMUM SPACE REQUIREMENTS AND MAXIMUM OPERATING SPEED.

- 890239 9-SERIES CORE DUMP TO MAGNETIC TAPE PROGRAM
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO MAGNETIC TAPE. LOAD PROGRAM BY STANDARD FILL FROM EITHER CARDS OR PAPER TAPE. BRU TO LOCATION 37675, SET A REGISTER WITH STARTING LOCATION TO BE DUMPED AND B REGISTER WITH ENDING LOCATION, CLEAR HALF AND GO.
- 890240 9-SERIES CORE DUMP TO UNBUFFERED LINEPRINTER
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIV.
ABSTRACT:
ALLOWS USER TO DUMP ALL OR ANY PORTION OF CORE MEMORY TO UNBUFFERED LINEPRINTER.
- 890241 9-SERIES FORTRAN CALCOMP PLOTTER ROUTINE
AUTHOR: JOHN LOBDELL - SOUTHERN METHODIST UNIVERSITY
ABSTRACT:
THIS SUBROUTINE IS CALLED FROM A FORTRAN II PROGRAM AND CAN DRAW AXES (LINEAR OR LOGARITHMIC), PLOT TITLES, LABEL AXES AND PLOT EITHER CONTINUOUS LINE PLOTS OR POINT PLOTS.
- 890242 9300 OSCILLOSCOPE DISPLAY ROUTINE
AUTHOR: S. KLEE, XDS
ABSTRACT:
TO PROVIDE FORTRAN CALLABLE SUBROUTINES TO UTILIZE SCOPE SYSTEM, INCLUDING VECTOR AND CHARACTER GENERATORS.
COMMENTS:
COMPUTER CONFIGURATION: XDS 9300 WITH 21 INCH CRT DISPLAY. SOURCE LANGUAGE: META-SYMBOL. STORAGE: 278 DEC
- 890243 9-SERIES XDS 920/930 SYMBOL MNEMONIC TABLE
AUTHOR: XDS - W.B. KENDALL - JET PROPULSION LABS
ABSTRACT:
PROVIDES SYMBOL WITH THE MNEMONIC TABLE OF THE TARGET MACHINE. LOCALIZES OTHER ASSEMBLER FEATURES WHICH ARE ORIENTED SPECIFICALLY TO THE TARGET MACHINE. ESTABLISHES THE RETURN LINKAGE FOR EXIT FROM SYMBOL.
- 890244 9-SERIES COMPUTER ASSEMBLY PROGRAM FOR 2K-910
AUTHOR: JOHN H. OKERLUND - UNIV. OF WASHINGTON
ABSTRACT:
AN ABBREVIATED ASSEMBLY PROGRAM FOR THE XDS 910 WITH 2K CORE MEMORY.
- 890245 9-SERIES AC-DC CIRCUIT ANALYSIS COMPILER
AUTHOR: CLIFFORD J. VANDERYACHT - SPARTON ELECTRONICS
ABSTRACT:
COMPILES STATEMENTS DESCRIBING AN ELECTRONIC CIRCUIT WRITTEN IN A BRANCH NOTATION INTO A FORTRAN PROGRAM CONTAINING MATRIX EQUATIONS.
COMMENTS:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH 4096 WORD OF MEMORY WITH PAPER TAPE READER, AND PUNCH AND CONSOLE TYPEWRITER. PAPER TAPE COMES IN FOUR PARTS
- 890246 9-SERIES MONITOR INPUT/OUTPUT PACKAGE-QUINOUT
AUTHOR: J. E. MCCARRAN - XDS
ABSTRACT:
DESIGNED TO HANDLE BUFFERED MAGNETIC TAPE, LINE PRINTER, CARD READER, OR TYPEWRITER I/O FOR FORTRAN IV AND META-SYMBOL PROGRAMS.
- 890247 9-SERIES FORTRAN SEARCH ARRAY
AUTHOR: K. M. JAMERSON - HONEYWELL, INC.
ABSTRACT:
SEARCHES A FIXED-POINT ARRAY FOR A MATCHING ITEM AND RETURNS THE LOCATION OF THE ITEM.
- 890248 9-SERIES SORT SUBROUTINE
AUTHOR: GORDON LENTZ - UNIVERSITY OF CHICAGO
ABSTRACT:
ROUTINE TO SORT AN ARRAY OR ARRAYS OF NUMBERS STORED IN CORE INTO ASCENDING SEQUENCE BASED ON SORT KEY.
- 890249 9-SERIES EDIT, CHARACTER STREAM EDITING PROGRAM
AUTHOR: JACK MACHANIK
ABSTRACT:
TO MORE EASILY EDIT FORTRAN SOURCE TAPES, SYMBOL SOURCE TAPES, AND FORTRAN BCD DATA TAPES, BY CONTENT AS WELL AS LOCATION.

- 890250 9-SERIES LABEL TRACE ROUTINE, L-FORTRANRAN
AUTHOR:PAUL JORGENSEN - AUTOMATIC ELECTRIC LABS
ABSTRACT:
THIS PROGRAM IS A REVISION OF THE LABEL TRACE ROUTINE (SYS180) CONTAINED IN THE FORTRAN LIBRARY.
BREAKPOINT SWITCH I IS USED TO PERMIT OR SUPPRESS THE LABEL TRACE AT EXECUTION TIME.
- 890251 9-SERIES REAL TIME FORTRAN OCTAL DUMP SUBROUTINE
AUTHOR:T. M. VIND
ABSTRACT:
PROVIDES AN OCTAL DUMP FOR DEBUGGING
- 890252 9-SERIES MEMORY DUMP FOR 9372 PRINTER
AUTHOR:K. JAMERSON - HONEYWELL, INC.
ABSTRACT:
PRINTS SPECIFIED SECTIONS OF MEMORY, 8 WORDS PER LINE, ON THE 9372 LINE PRINTER. BIT PATTERNS WHICH
REPEAT ARE INDICATED RATHER THAN PRINTED REDUNDANTLY.
- 890253 9-SERIES FORTRAN TO SYMBOL LANGUAGE RUN-TIME LIST
AUTHOR:R. F. ULRICH, DOUGLAS AIRCRAFT CO.
ABSTRACT:
GIVES A RUN-TIME SYMBOLIC LISTING OF ANY FORTRAN ROUTINE IN SYMBOL 8 LANGUAGE.
- 890254 9-SERIES SHIFT ROUTINE FOR A AND B REGISTERS
AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
SHF POP CONSISTS OF ALS, ARS, BLS AND BRS. THE PACKAGE PROVIDES SINGLE-REGISTER SHIFT INSTRUCTIONS IN
EACH DIRECTION FOR BOTH THE A AND B REGISTERS.
- 890255 9-SERIES HALT AND TRANSFER SIMULATION ROUTINE
AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
PROVIDES A POP TO SIMULATE AN INTERRUPT-PROTECTED 'HALT AND TRANSFER' INSTRUCTION.
- 890256 9-SERIES SIMULATION OF SKIP ON COMPARISON INST.
AUTHOR:L.A. LITTLETON - UNIV. OF CHICAGO, LASR
ABSTRACT:
PROVIDES A POP TO SIMULATE A SINGLE INSTRUCTION 'SKIP IF A LESS THAN OR EQUAL TO M.'
- 890257 9-SERIES SINGLE INSTRUCTION FLAG OPERATION, FLOPO
AUTHOR:L. A. LITTLETON - UNIV. OF CHICAGO
ABSTRACT:
CONSISTS OF 5 POPS WHICH PROVIDE SINGLE INSTRUCTION FLAG SETTING, RESETTING, AND TESTING FOR WHICH THE
FLAG DOES NOT REQUIRE EXTRA STORAGE.
- 890258 9-SERIES LINE PRINTER PLOTTING PACKAGE
AUTHOR:MRS. PATRICIA GRASSLER, THE MITRE CORP.
ABSTRACT:
ROUTINES FOR PLOTTING DATA ON A LINE PRINTER.
- 890259 9-SERIES GRAPH ROUT FOR THE LINEPRINTER-PLOTTING
AUTHOR:B. BUND, PERKIN-ELMER AND R.R. BOSE, DOUGLAS AIRCRAFT CO.
ABSTRACT:
EIGHT SUBROUTINES PROVIDE CAPABILITY FOR ON-LINE GRAPHING USING THE LINE PRINTER. THESE ROUTINES ALLOW
THREE METHODS OF PLOTTING POINTS WITH VERTICAL AND HORIZONTAL AXES WHICH ARE SCALED AND TITLED. THE
AXES ARE ALONG THE LEFTHAND AND BOTTOM EDGES OF THE PAGE.
- 890260 9-SERIES GRAPH ROUTINES FOR LINE PRINTER-PLOTTING
AUTHOR:BARBARA BUND - PERKIN-ELMER CORP.
ABSTRACT:
PROVIDES CAPABILITY FOR ON-LINE PLOTTING USING THE LINE PRINTER
- 890261 9-SERIES TAPE HANDLING ROUTINE - TAPE
AUTHOR:C. A. BURNS - UNIV. OF CHICAGO
ABSTRACT:
A ROUTINE TO PROVIDE CONVENIENT MAGNETIC TAPE HANDLING.

- 890262 9-SERIES TYPEWRITER (STD) LISTING OUTPUT SUBR
AUTHOR: W. B. KENDALL - JET PROPULSION LABS
ABSTRACT:
TO OUTPUT ON THE TYPEWRITER (STANDARD SELECTRIC) THE SYMBOL OUTPUT LISTING, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BPT4 CONTROL.
- 890263 9-SERIES TYPEWRITER (15' CARRIAGE) LISTING OUTPUT
AUTHOR: W. B. KENDALL - JPL SUBROUTINE.
ABSTRACT:
TO OUTPUT ON A 15' WIDE CARRIAGE SELECTRIC, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT 4 CONTROL.
- 890264 9-SERIES SET OR DETECT ITH BIT OF A WORD
AUTHOR: MISS G. P. GREEN - NATIONAL RESEARCH COUNCIL
ABSTRACT:
A SUBPROGRAM TO SET OR DETECT THE ITH BIT OF A WORD.
- 890265 9-SERIES CARD READER END OF FILE TEST
AUTHOR: P. J. WELLENSTEIN
ABSTRACT:
FORTRAN SUBROUTINE TO TEST FOR EOF CONDITION ON CARD READER.
- 890266 9-SERIES LINE PRINTER LISTING SUBROUTINE
AUTHOR: W. B. KENDALL - JET PROPULSION LABS
ABSTRACT:
PERMITS OUTPUT LISTING ON A LINE PRINTER, EITHER UNCONDITIONALLY OR IN A DIAGNOSTIC MODE, UNDER BREAKPOINT CONTROL.
- 890267 900-SERIES FORTRAN FLOWCHART PROGRAM
AUTHOR: D. PIXLEY, BAUSCH & LOMB, INC.
ABSTRACT:
PRODUCES A FLOWCHART FROM ANY GIVEN FORTRAN II PROGRAM.
COMMENTS:
COMPUTER CONFIGURATION: ANY 900 SERIES COMPUTER WITH CARD READER AND LINE PRINTER. 3179 DECIMAL MEMORY
SOURCE LANGUAGE: FORTRAN II
- 890268 9-SERIES PRINTER UTILITY PROGRAM
AUTHOR: D. PIXLEY - BAUSCH + LOMB
ABSTRACT:
PROVIDES A GENERAL MEANS FOR LISTING CARDS ON A HIGH-SPEED PRINTER WITH A VARIETY OF SPECIAL-PURPOSE OPTIONS WHICH WOULD OTHERWISE HAVE TO BE PROGRAMMED SPECIFICALLY FOR A GIVEN TYPE LISTING.
- 890269 9-SERIES CARD RESEQUENCE - DUPLICATOR (REPRO)
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A CONVENIENT IN-HOUSE METHOD OF RESEQUENCING A SYMBOLIC PROGRAM CARD DECK, AND TO PRODUCE A FINAL RESEQUENCED VERSION OF A CARD DECK WITHOUT RELEASING THE DECK TO EAM.
- 890270 9-SERIES LIBRARY UPDATE EXAMPLE
AUTHOR: K. P. AMBROSE, DOUGLAS AIRCRAFT CO.
ABSTRACT:
TO PROVIDE A SKELETON FORM, FOR REFERENCE, OF A COMPLETE USERS' FORTRAN LIBRARY PACKAGE INCLUDING ALL CONTROL CARDS NECESSARY TO COMPILE-ASSEMBLE AND INSERT THE BINARY OUTPUT AS THE FIRST ROUTINES IN THE FORTRAN LIBRARY.
- 890271 9-SERIES PSI OR TSI SYMBOLIC INPUT/OPTIONAL MAG.
AUTHOR: W. B. KENDALL - JPL TAPE INTERM. OUTPUT SUBROUTINE
ABSTRACT:
TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED, IF BPT 3 IS SET, FROM PAPER TAPE (OR TYPEWRITER) TO MAGNETIC TAPE UNIT 1, FROM WHICH THEY ARE READ DURING PASS 2.
- 890272 9-SERIES CARD SYMBOLIC INPUT/OPTIONAL MAG. TAPE
AUTHOR: W. B. KENDALL - JPL INTERM. OUTPUT SUBROUTINE (CSI)
ABSTRACT:
TO READ SYMBOLIC INPUT RECORDS FOR SYMBOL. DURING PASS 1 THESE RECORDS MAY BE COPIED FROM CARDS TO MAGNETIC TAPE UNIT 1 (BPT 3 SET), FROM WHICH THEY ARE READ DURING PASS 2.

- 890273 9-SERIES BINARY TO DECIMAL CONVERSION
AUTHOR:H.P.BRIAR - AEROJET-GENERAL CORP.
ABSTRACT:
BID A BINARY TO DECIMAL SUBROUTINE WILL CONVERT THE CONTENTS OF A AND B INTO 7 DECIMAL DIGITS AND DECIMAL POINT OR A - SIGN, DECIMAL POINT AND 6 DIGITS. THE CONVERTED BID WILL BE PACKED 2 CH/WD READY FOR OUTPUT WITH LEADING ZEROS SUPPRESSED.
- 890274 9-SERIES XDS 92 PAPER TAPE EDITOR
AUTHOR:H. P. BRIAR - AEROJET-GENERAL CORP
ABSTRACT:
PROPER SETTING OF THE BREAKPOINT SWITCHES WITH AUXILIARY TYPING OF THE NUMBER OF RECORDS TO BE PROCESSED ALLOWS REPRODUCTION, LISTING, INSERTION OR DELETION OF SYMBOL SOURCE OR FORTRAN SOURCE STATEMENTS.
- 890275 9-SERIES FREQUENCY RESPONSE OF DIGITAL TRANSFER
AUTHOR:D. C. BAXTER FUNCTION
ABSTRACT:
COMPUTATION OF AMPLITUDE AND PHASE OF THE RESPONSE OF A LINEAR SAMPLED-DATA SYSTEM TO AN INPUT SINUSOID OF FREQUENCY W.
- 890276 9-SERIES INVERSE Z-TRANSFORM
AUTHOR:R. E. GAONE
ABSTRACT:
CALCULATION OF THE FIRST $M+1$ TERMS OF THE POWER SERIES INVERSION OF A Z TRANSFORM.
- 890277 9-SERIES D-T-L CIRCUIT DESIGN
AUTHOR:H. B. LENG AND G. ROGOFF
ABSTRACT:
CALCULATES R_1 , R_2 , R_3 , FAN-OUT AND DISSIPATED POWER FOR THE FAMILIAR D-T-L NAND GATE CIRCUIT, GIVING ANSWERS IN EXACT CALCULATED VALUES OR IN COMMERCIALY AVAILABLE STANDARD RESISTANCES FOR WORST-CASE CONDITIONS.
- 890278 9-SERIES BASIC CRITICAL PATH PROGRAM
AUTHOR:R. BOWMAN - XDS
ABSTRACT:
A BASIC PROGRAM THAT CALCULATES THE CRITICAL PATH OF A SPECIFIC PROJECT ON A MINIMUM XDS 900 SERIES COMPUTER; ALSO, SLACK TIMES ARE COMPUTED FOR ALL TASKS WITHIN THE PROJECT.
- 890279 9-SERIES U.S.STANDARD EARTH MODEL ATMOSPHERE
AUTHOR:SAM H. HARLIN- XDS ROUTINE FOR 455 LATITUDE.
ABSTRACT:
CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE AND SPEED OF SOUND AT ANY GIVEN EARTH ALTITUDE, AT A LATITUDE OF 45.
- 890280 9-SERIES U.S.STANDARD EARTH ATMOSPHERE ROUTINE
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
ROUTINE TO CALCULATE PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE AND AT ANY GIVEN LATITUDE.
- 890281 9-SERIES U.S.STANDARD MARS ATMOSPHERE ROUTINE(106
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND, AT ANY GIVEN ALTITUDE WITHIN THE SPHERE OF INFLUENCE OF MARS.
- 890282 9-SERIES U.S.STANDARD VENUS ATMOSPHERE ROUTINE
AUTHOR:S. H. HARLIN - XDS
ABSTRACT:
CALCULATES PRESSURE, DENSITY, MOLECULAR-SCALE TEMPERATURE, AND SPEED OF SOUND AT ANY GIVEN ALTITUDE OF VENUS' SPHERE-OF-INFLUENCE.
- 890283 9-SERIES CIRCUIT DESIGN ANALYSIS CIRC DC
AUTHOR:R. D. MCNAIR - XDS
ABSTRACT:
A FORTRAN II BASED SOFTWARE PACKAGE TO PERFORM DC CIRCUIT DESIGN ANALYSIS

- 890284 9-SERIES AIRPLANE LAT-DIR TIME HISTORY
AUTHOR: JAMES L. SAMUELS
ABSTRACT:
SOLVES THE THREE DEGREE-OF-FREEDOM LATERAL-DIRECTIONAL AIRPLANE EQUATIONS OF MOTION, USING FOURTH ORDER RUNGE-KUTTA INTEGRATION AND TYPES A TIME HISTORY. USEFUL FOR CHECKING LAT-DIR PORTION OF ANALOG SIMULATIONS.
- 890285 9-SERIES UTILITIES INDUSTRY PACKAGE
AUTHOR: C. PASTEL AND V. WRAY - SOUTHERN CALIFORNIA EDISON
ABSTRACT:
PACKAGE OF SEVEN ROUTINES TO PROVIDE THE FOLLOWING: (1) GENERALIZED METHOD FOR SOLVING POWER SYSTEM LOAD FLOWS; (2) RATE AND REVENUE EVALUATION; (3) LINE PROFILE SURVEY; (4) VOLTAGE DROP AND LOSS EVALUATION. (5) RULING SPAN CALCULATION; (6) PROBABILITY OF LOSS OF LOAD COMPUTATION; (7) TRANSFORMER HEAT RUN.
- 890286 9-SERIES RPL, A DATA REDUCTION LANG. PRECOMPILER
AUTHOR: FRANK C. BEQUAERT - MITRE CORP.
ABSTRACT:
RPL IS A PRECOMPILER WRITTEN IN FORTRAN II THAT GENERATES FORTRAN II OUTPUT STATEMENTS ON MAGNETIC TAPE. THE PROGRAM ALLOWS THE USE OF A DATA BASE DICTIONARY THAT MAKES IT UNNECESSARY FOR THE USER TO KNOW WHERE WITHIN A MAGNETIC TAPE RECORD PIECES OF DATA ARE RECORDED. RPL PROVIDES A NUMBER OF PROGRAM GENERATION FUNCTIONS WHICH GENERATE AS OUTPUT FORTRAN PROGRAM SEGMENTS THAT PERFORM DATA REDUCTION OPERATIONS.
- 890287 9-SERIES ON-LINE MATHEMATICAL COMPILER
AUTHOR: R. L. SCHWARTZ - XDS
ABSTRACT:
PROVIDES THE USER WITH THE CAPABILITY OF USING HIS XDS 900 SERIES COMPUTER AS A SOPHISTICATED DESK CALCULATOR.
- 890288 9-SERIES LOGICAL, BIT, AND CHARACTER MANIPULATION
AUTHOR: H. PACHON - AUTOMATIC ELECTRIC LABS
ABSTRACT:
A PACKAGE OF ROUTINES TO EXTEND THE FLEXIBILITY OF THE XDS FORTRAN II PROGRAMMING SYSTEM TO INCLUDE THE ENCODING OF NON-NUMERICAL PROGRAMS.
- 890289 9-SERIES LINE PRINTER PLOTTING ROUTINE
AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
PROVIDES A PLOT OF A SET OF POINTS WHOSE COORDINATES ARE STORED IN X AND Y ARRAYS.
- 890290 9-SERIES HISTOGRAPH PLOT LINE PRINTER-HSTPLOT
AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
THIS SUBROUTINE PLOTS A HISTOGRAPH AND COMPUTES STATISTICAL PARAMETERS OF AN ARBITRARY ARRAY OF FLOATING POINT NUMBERS.
- 890291 9-SERIES WINNIM - PROGRAM TO PLAY NIM
AUTHOR: P. JORGENSEN - AUTOMATIC ELECTRIC LABORATORIES, INC.
ABSTRACT:
THIS IS A DEMONSTRATION PROGRAM THAT ALLOWS THE USER TO PLAY NIM WITH THE COMPUTER.
- 890292 9-SERIES SAMPLE DATA FROM ANALOG INPUT AND STORE
AUTHOR: I. RAUDZIN - NATIONAL RESEARCH COUNCIL.
ABSTRACT:
A FORTRAN II SUBROUTINE TO SAMPLE DATA FROM A SPECIFIED ANALOG INPUT UNDER EXTERNAL CLOCK CONTROL AND STORE IN MEMORY, TWO SAMPLES/WORD. CALCULATES THE SUMS OF THE FIRST FOUR POWERS.
- 890293 9-SERIES BCD CONVERSION, XDS - UNIVAC - XDS
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES BCD CONVERSION BETWEEN THE UNIVAC CHARACTER SET AND THE IBM COMPATIBLE CHARACTER SET USED BY XDS
- 890294 9-SERIES MAG TAPE POSITION ROUTINE
AUTHOR: MISS I. RAUDZINS - NATIONAL RESEARCH COUNCIL
ABSTRACT:
POSITIONS THE MAG TAPE ON UNIT 0 AT THE NTH FILE, AND OPTIONALLY TO SIMULATE A MAG TAPE FILE TO LOAD THAT FILE.

- 890295 9-SERIES INTERPOLATION OR EXTRAPOLATION ROUTINE
AUTHOR: R. M. WELCH - DOUGLAS AIRCRAFT CO.
ABSTRACT:
ROUTINE TO INTERPOLATE OR EXTRAPOLATE. TO RETURN EITHER X AS A FUNCTION OF Y OR Y AS A FUNCTION OF X,
AND A ROUTINE TO READ DATA CARDS IN AND SET UP NECESSARY TABLES.
- 890298 9-SERIES PAPER TAPE DUPLICATOR
AUTHOR: H.P. BRIAR - AEROJET GENERAL CORP.
ABSTRACT:
WHEN THE XDS 92 IS EQUIPPED WITH 80 CS PUNCH AND 300 CS READER, THE PROGRAM FURNISHES A READ TAPE/PUNCH
TAPE OPERATING MODE FOR THE 300 CS READER TO THE 60 CS PUNCH. THIS PROVIDES A DUPLICATE PAPER TAPE.
- 890297 9-SERIES UNIVERSAL GRAPHIC PACKAGE-CRT4-PLOTTING
AUTHOR: K. P. AMBROSE - DOUGLAS AIRCRAFT CO.
ABSTRACT:
PROVIDES A CONVENIENT SOFTWARE GRAPHIC PACKAGE (USING THE XDS 9185 GRAPHIC LANGUAGE) FOR PLOTTING ON THE
FOLLOWING FIVE DEVICES: XDS 9185 CATHODE RAY TUBE DISPLAY UNIT, LINE PRINTER, TYPEWRITER, CALCOMP, AND
SC4020.
- 890298 9-SERIES FORTRAN II RAD LINKING PROCESSOR-RADLNK
AUTHOR: D. PIXLEY - XDS
ABSTRACT:
THE ENTIRE SYSTEM ALLOWS THE USER TO CREATE A LINK TAPE PROCESSOR WHICH WHEN FILLED FROM TAPE 0, ACCEPTS
A STANDARD FORTRAN II LINK TAPE FROM TAPE UNIT 2, PLACES EACH LINK ON THE RAD AND ACCEPTS A TWO DIGIT
DECIMAL NUMBER FROM A CARD TO DETERMINE WHICH LINK TO EXECUTE FIRST. SUCCESSIVE LINKS ARE EXECUTED BY
THE CALL LINK(N) OR CALL NEXTLINK FORTRAN II STATEMENTS.
- 890299 9-SERIES SC4020 SUBROUTINES FOR XDS 920/930
AUTHOR: GENERAL DYNAMICS-CONVAIR DIVISION
ABSTRACT:
THE SUBROUTINE PACKAGE IS A SUBSET OF THE STANDARD SC SCORS PACKAGE. MOST OF THE CAPABILITIES AS
DESCRIBED IN THE SC DOC. 9500056 ARE PRESENT IN THE XDS PACKAGE. A MINIMUM OF 16K MEMORY WITH A MONARCH
CONFIGURATION IS NEEDED TO COMPILE AND EXECUTE USING THE PACKAGE. OUTPUT IS A FORMATED SC4020 TAPE
READY FOR PLOTTING.
- 890300 9-SERIES DISK (RAD) HANDLER
AUTHOR: R. MADDEN - CHEVRON
ABSTRACT:
TO PROVIDE INPUT AND OUTPUT TO A DISK ON CHANNEL E (DACC)
- 890301 9-SERIES LABEL TRACE, MODIFIED 180 SYS
AUTHOR: E. A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A PROGRAM THAT INITIALIZES THE OPERATION OF A MODIFIED VERSION OF 180SYS TO PROVIDE: 1. A SELECTIVE
TRACE OF UP TO 10 LABELS AS SPECIFIED BY THE OPERATOR AT RUN TIME. 2. A TRACE OF NO LABELS. 3. A TRACE
OF ALL LABELS.
COMMENTS:
USED BY PROGRAM PACKAGE (180SYS,SELTRA,ALLTRA,NOTRA)
- 890302 9-SERIES SELECTIVE LABEL TRACE, 180SYS
AUTHOR: E. A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A MODIFICATION OF THE STANDARD XDS VERSION OF 180SYS PLUS THREE ASSOCIATED ROUTINES TO PROVIDE A
SELECTIVE TRACE OF STATEMENT LABELS IN A FORTRAN PROGRAM.
COMMENTS:
REQUIRES SUBROUTINE TRACE.
- 890303 9-SERIES INSPECTION/CORRECTION BY TYPEWRITER
AUTHOR: D. DUNN, S. SKLAR
ABSTRACT:
THE PROGRAM ALLOWS INSPECTION AND/OR CORRECTIONS OF MEMORY LOCATIONS BASED ON TYPEWRITER INPUT.
- 890304 9-SERIES FORTRAN MEMORY SAVE ON MAG TAPE
AUTHOR: DR. K. DAWSON - UNIV. OF ALBERTA
ABSTRACT:
DUMP FORTRAN L OR REAL TIME FORTRAN MEMORY ON A MAG TAPE WITH OPTIONS FOR DUMPING COMMON AND RUN TIME.
COMMENTS:
SEPARATE TAPES ARE PROVIDED FOR FORTRAN L AND REAL TIME FORTRAN

- 890305 9-SERIES B)SORT-BUSINESS LANGUAGE SORT ROUTINE
AUTHOR:L.R. BRENTON - DOUGLAS SPACE CENTER
ABSTRACT:
XDS B)SORT WAS MODIFIED TO PRESERVE THE ORIGINAL SORT SEQUENCE, THUS PROVIDING FOR MORE THAN ONE LEVEL OF SORTING. I.E. MAJOR, INTERMEDIATE, MINOR.
- 890306 9-SERIES FORTRAN CARD READ SUBROUTINE (216 SYS)
AUTHOR:B.E. ANDREWS
ABSTRACT:
UPON READING A CARD CONTAINING A " IN THE FIRST COLUMN, PROGRAM CONTROL IS RETURNED TO MONARCH.
COMMENTS:
REVISION OF XDS 216 SYS
- 890307 9-SERIES MUSIC BOX
AUTHOR:E.A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A DEMONSTRATION PROGRAM WHICH ENABLES THE COMPUTER TO READ MUSIC IN CODED FORM FROM PUNCHED TAPE AND THEN TO PLAY IT.
COMMENTS:
REQUIRES SOME HARDWARE MODIFICATION.
- 890308 9-SERIES FORTRAN LABEL TRACE POP (160 SYS)
AUTHOR:B.E. ANDREWS
ABSTRACT:
THIS PROGRAM IS USED TO GIVE A CONDITIONAL LABEL TRACE OF A FORTRAN PROGRAM AND PACKS THE LABELS AT 20/LINE.
COMMENTS:
REVISION OF XDS 160 SYS POP.
- 890309 9-SERIES TIC-TAC-TOE ROUTINE
AUTHOR:A. SEAMAN - PRINCE ALBERT RADAR LAB
ABSTRACT:
A DEMONSTRATION PROGRAM FOR PLAYING TIC-TAC-TOE WITH THE COMPUTER.
- 890310 9300 FORTRAN EXTENDER LIB.-BIT HANDLING & I/O
AUTHOR: UNIVERSITY OF DELAWARE
ABSTRACT:
THIS PACKAGE OF LIBRARY ROUTINES PROVIDE ADDITIONAL CAPABILITY TO THE FORTRAN USER. THEY INCLUDE CHARACTER MANIPULATION, BIT MANIPULATION, INPUT/OUTPUT, AND TIMING.
- 890313 9-SERIES FAST FOURIER TRANSFORM--FOURT
AUTHOR:N. BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890314 9-SERIES FAST FOURIER TRANSFORM--FOUR0
AUTHOR:NORMAN BRENNER MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY WHOSE LENGTH IS ARBITRARY. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890315 9-SERIES FAST FOURIER TRANSFORM--FOUR2
AUTHOR:NORMAN BRENNER - MIT
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX OR REAL ARRAY IN CORE WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890316 9-SERIES FAST FOURIER TRANSFORM--FOUR1
AUTHOR:NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
VERY SHORT SUBROUTINE FOR FFT OF ONE-DIMENSIONAL COMPLEX ARRAY IN CORE WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .
- 890317 9-SERIES FAST FOURIER TRANSFORM--FOR2D
AUTHOR:NORMAN BRENNER, MIT DEPARTMENT OF GEOPHYSICS
ABSTRACT:
SUBROUTINE FOR FFT OF MULTI-DIMENSIONAL COMPLEX ARRAY ON DESK OR DRUM WHOSE LENGTH IS A POWER OF TWO. RUNNING TIME IS PROPORTIONAL TO $N \cdot \log(N)$, MUCH FASTER THAN NON-FFT N^2 .

- 890318 900-SERIES CIRCUIT DESIGN ANALYSIS - CIRC-AC
AUTHOR: XEROX
ABSTRACT:
A GENERAL PURPOSE PACKAGE FOR CIRCUIT DESIGN ANALYSIS. CIRC-AC ALLOWS QUICK AND ACCURATE ANALYSIS OF THE AC (SMALL SIGNAL, SINUSOIDAL DRIVE) PERFORMANCE OF CIRCUITS CONTAINING MANY PASSIVE OR ACTIVE COMPONENTS. CIRC-AC HAS A STORED MODEL FOR TRANSISTORS THAT IMPLEMENTS TWO POLE CURRENT DEPENDENCE UPON FREQUENCY. CIRC-AC DOES NOMINAL SOLUTIONS, FREQUENCY ITERATION SOLUTIONS, AND AUTOMATIC OPEN LOOP SOLUTIONS. CIRC-AC HANDLES LARGE CIRCUITS (OVER 50 MODES) AND PLOTS PERFORMANCE CURVES ON THE LINE-PRINTER. CIRC-AC HAS DEPENDENT CURRENT SOURCE MODELS AND VOLTAGE SOURCE MODELS AND EASILY IMPLEMENTS Y AND H EQUIVALENT CIRCUITS.
COMMENTS:
CIRC-AC IS A FORTRAN + SYMBOL PROGRAM THAT OPERATES AS A LINKED PROGRAM. CIRC WORKS EFFECTIVELY ON A 18K MEMORY MACHINE (ASSUMED IN THE RELEASE). A SMALL VERSION CAN OPERATE ON 12K. FOUR MAG TAPES ARE IDEAL. THREE MAG TAPES ARE GOOD, AND TWO MAG TAPES COULD SUPPORT A WEAK VERSION WITH ANKWARD OR NO PLOTTING. A CARD READER AND LINE PRINTER ARE IDEAL. CIRC-AC OPERATES ON ANY 900-SERIES COMPUTER.
- 890320 92 XDS 92 FORTRAN IV COMPILER
AUTHOR: COMPAGNIE INTERNATIONALE POUR L'INFORMATIQUE
ABSTRACT:
THIS PROGRAM ALLOWS COMPILATION OF PROGRAMS WRITTEN IN FORTRAN IV.
- 890329 900-SERIES SEMILOG PLOTTING ROUTINES
AUTHOR: BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
SEMI-MULT-DRAWS A LINEAR Y-AXIS AND LOGARITHMIC X-AXIS AND PLOTS UP TO 8 CURVES ON THE SAME GRAPH. SEMIAXI - DRAWS A LINEAR Y-AXIS AND A LOGARITHMIC X-AXIS. REPLOTTZ - THIS SUBROUTINE PLOTS UP TO 10 CURVES ON THE AXES PREVIOUSLY DRAWN BY SEMIAXI.
- 890330 900-SERIES PLOT '8 VECTOR' PLOTTING PACKAGE
AUTHOR: MOTOROLA INC.
ABSTRACT:
USED FOR TAPE WRITING FOR OFF LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PACKAGE FOR 8 VECTOR PLOTS
COMMENTS:
LANGUAGE: SYMBOL ADDITIONAL INFORMATION: INCLUDES SUBROUTINES: PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.
- 890331 900-SERIES PLOT (24 VECTOR) PLOTTING PACKAGE
AUTHOR: MOTOROLA INC.
ABSTRACT:
USED FOR TAPE WRITING FOR OFF-LINE SYSTEMS. THIS IS THE STANDARD CALCOMP PLOTTING PACKAGE FOR 24 VECTOR PLOTS.
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: SYMBOL SYSTEM: MONARCH. ADDITIONAL INFORMATION: INCLUDES SUBROUTINES PLOT, PLOTS, WHERE, FACTOR, OFFSET, CLRPLT. EACH SUBROUTINE ALLOWS ON-LINE OR OFF-LINE PLOTTING.
- 890332 900-SERIES WORD/BIT ORIENTED FUNCTION & SUBROUTINE
AUTHOR: JOHN DOLS, MOTOROLA, INC.
ABSTRACT:
WORD ORIENTED FUNCTIONS AND SUBROUTINES SUBROUTINE FORM WHICH CALLS FUNCTION MULT, FUNCTION IPART, AND FUNCTION IPARTA, ALLOWS MULTIPLE VARIABLE STORAGE IN INTEGER WORD FORMAT. THE BIT CONFIGURATION TO BE USED BY THE VARIABLES MUST BE SPECIFIED
BIT ORIENTED FUNCTIONS AND SUBROUTINES, FUNCTION AIF, SUBROUTINES EXC, FILL, MUM, AND MUT ALL ARE CALLED USING SEQUENCE: NAME (ARG1, ARG2, ARG3)
COMMENTS:
PROGRAM TYPE: PACKAGE LANGUAGE: FORT/SYMB SYSTEM: MONARCH
- 890333 900-SERIES SUBROUTINE SLZDEQ
AUTHOR: J. HERRELL - MOTOROLA
ABSTRACT:
THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS COMPLEX EQUATIONS.
COMMENTS:
PROGRAM TYPE: FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH
- 890334 900-SERIES NOPRINT, READ AND REREAD PACKAGE (10)
AUTHOR: JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
THE NOPRINT, READ, AND REREAD PACKAGE ALLOWS MANIPULATION AND IN THE PREVIOUS DATA TO BE MANIPULATED. (AS IN 'DECODE'). NOPRINT INHIBITS THE NEXT PRINT STATEMENT, ALLOWING REFORMATTING (AS IN 'ENCODE'). STATEMENT, ALLOWING REFORMATTSUBROUTINE READ UTILIZES INTERLACE DURING I/O, ALLOWING COMPUTATION DURING I/O.
COMMENTS:
PROGRAM TYPE: FORT SUB LANGUAGE: METASYMBOL SYSTEM: MONARCH STORAGE: 56WORDS DOC. PAGES: 13 DATE: 11/26/69

- 890335 900-SERIES FORTRAN READ AND WRITE TAPE ROUTINES.
AUTHOR:JOHN DOLS / BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
 ALLOW FORTRAN TO READ OR WRITE RECORD BLOCKS OF ANY LENGTH IN BCD OR BINARY ON MAGNETIC TAPE.
COMMENTS:
 PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE: DOC.PAGES:12 DATE:11/28/69
- 890336 900-SERIES SORT-MODIFIED SHELL MERGE-EXCHANGE
AUTHOR:JOHN DOLS - MOTOROLA
ABSTRACT:
 PERFORMS DESCENDING OR ASCENDING SORTS ON BCD, INTEGER, OR REAL ARRAYS. PROGRAM TYPE:FORT SUB LANG:
 SYMBOL SYSTEM:MONARCH STORAGE:202 DOC.PAGES:12 DATE:11/28/69.
- 890337 900-SERIES PACKING AND UNPACKING OF FLOATING POINT
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
 A CONVERSION MEDIA BETWEEN DOUBLE AND SINGLE PRECISION FLOATING POINT NUMBERS - CONSERVES STORAGE.
COMMENTS:
 PROGRAM TYPE:FORT SUB LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:24 DOC.PAGES:3 DATE:11/28/69
- 890338 900-SERIES END-OF-FILE TEST
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
 TESTS FOR END-OF-FILE ON TAPE WRITTEN IN EITHER MODE AND BRANCHES TO SOME SPECIFIED STATEMENT WHEN EOF
 FOUND:
COMMENTS:
 PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN SYSTEM:MONARCH STORAGE:21 DOC.PAGES:2 DATE:11/28/69
- 890339 900-SERIES END-OF-PAGE TEST ROUTINE
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
 TESTS LOCATION OF PRINTER TO DETERMINE IF PRINTER IS READY TO GO TO A NEW PAGE
COMMENTS:
 PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:9 DOC.PAGES:2 DATE:11/28/69.
- 890340 900-SERIES MAGNETIC TAPE POSITIONING ROUTINES
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
 FORTRAN SUBROUTINES ALLOWING THE USER TO SKIP A SPECIFIED NUMBER OF FILES OR RECORDS EITHER FORWARD OR
 BACKWARD
COMMENTS:
 PROGRAM TYPE:FORT SUB LANGUAGE: FORTRAN II SYSTEM: MONARCH STORAGE:128 DOC. PAGES:6 DATE:11/28/69
- 890341 900-SERIES COUNT FILES/RECORDS ON MAGNETIC TAPE
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
 ALLOWS THE USER TO COUNT THE RECORDS IN A FILE, OR THE FILES ON A MAGNETIC TAPE.
COMMENTS:
 PROGRAM TYPE:FORT SUB LANGUAGE:SYMBOL SYSTEM: STORAGE:85 DOC.PAGES:4 DATE:11/28/69
- 890342 900-SERIES TAPE LABEL AND POSITIONING
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
 SUBROUTINES CONSTRUCT AND RECOGNIZE LEVEL 1 MONARCH LABELS.
COMMENTS:
 PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:28 WORDS DOC.PAGES:7 DATE:11/28/69
- 890343 900-SERIES ERROR
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
 A FORTRAN SUBROUTINE WHICH ALLOWS PROGRAMMED INTERVENTION ON ANY FORTRAN II RUNTIME ERROR NORMALLY CAUS-
 ING AN ERROR NOTIFICATION.
COMMENTS:
 PROGRAM TYPE:FORT SUB. LANGUAGE:SYMBOL SYSTEM:MONARCH STORAGE:71WORDS DOC.PAGES:6 DATE:11/28/69
- 890344 900-SERIES PLOTTER SUBROUTING BLOWUP
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
 ENLARGES A PORTION OF A CURVE THAT IS DIFFICULT TO READ WHEN PLOTTED BY 'CALPLOT' (CAT NO 890350)
COMMENTS:
 PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:4 DATE:11/28/69
 ADDITIONAL INFORMATION: REQUIRES CALPLOT -890350

- 890345 900-SERIES HISTPRINT AND HISTPLOT
AUTHOR:MOTOROLA, INC.
ABSTRACT:
PROCESS RAN DATA INTO HISTOGRAM REPRESENTATIONS OF FREQUENCY VERSUS INTERVAL ACCORDING TO SPECIFICATION. HISTPRINT OUTPUTS ON THE LINE PRINTER WHILE HISTPLOT OUTPUTS ON THE CALCOMP PLOTTER. PLOTTING REQUIRES THREE TIMES AS MUCH COMPUTER TIME AS PRINTING.
COMMENTS:
PROGRAM TYPE:FORT.SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:12 DATE:11/26/69.
REQUIRES PLOT-CAT NO 890330 SYMBOL CALCOMP SCOOP PACKAGE SORT 890338
- 890346 900-SERIES PLOTTER ROUTINE FOR ON-LINE PRINTER
AUTHOR:JOHN DOLS - MOTOROLA INC.
ABSTRACT:
WILL PLOT ONE OR TWO CURVES ON LINE-PRINTER USING 8-1/2" X 11" PAPER. IT LABELS ALL AXES AND PRINTS A TITLE.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:9 DATE:11/26/69
- 890347 900-SERIES PROBABILITY FUNCTIONS - ERF, ZGAUSS, P
AUTHOR:JIM HERRELL - MOTOROLA INC.
ABSTRACT:
ERF-RETURNS VALUE OF ERROR FUNCTION FOR POSITIVE VALUES OF X. PROBFUNC-RETURNS VALUE OF NORMAL PROBABILITY INTEGRAL. ZGAUSS-INVERSE OF PROBFUNC.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:78,83,98 DOC.PAGES:7 DATE:11/26/69
- 890348 900-SERIES REVERSE SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
SEMIREV DRAWS THE AXES FOR A SEMILOG PLOT THAT HAS THE Y-AXIS LOGARITHMIC. THE REPLOTT4 PLOTS UP TO 10 CURVES ON AXES GENERATED BY SEMIREV.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:7 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES SUBROUTINES: PLOT 890330, LOGA 89035L, LOGSCALE 890353, PLUS CACCOMP ROUTINES:SCALE, CLRPLOT, LINE, SYMBOL, AXIS
- 890349 900-SERIES STATPAK-STATISTICAL PACKAGE
AUTHOR:BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
STATPAK IS A PACKAGE DESIGNED TO ANALYZE, SUMMARIZE AND STANDARDIZE RELIABILITY DATA. PROGRAMS INCLUDED: LINK 1 THRU LINK 10 NISTPRINT INPLOT
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRAN II SYSTEM:MONARCH
ADDITIONAL INFORMATION:SUBROUTINES REQUIRED: AIF(890332) COMPARE, NOPRINT(890333), HISTPRINT (890345), REREAD (890334), ALOG10, LINK, NEXTLINK, SORT, INPLOT, ALOG, COS, SIN, IBCZ, CALPLOT, SEMILOG, AMIN, AMAX, ABS, FLOAT.
- 890350 900-SERIES GENERAL PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
PLOTS ONE OR TWO CURVES ON 10" X 7" AXES WITH TITLE AND AXIS LABELS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:8 DATE:11/26/69
REQUIRES CALCOMP ROUTINES: SCALE, PLOT, AXIS, SYMBOL, LINE.
- 890351 900-SERIES SEMILOG PLOTTING PACKAGE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
WILL PLOT ONE OR TWO CURVES ON 10" X 7" AXIS, WITH X-AXIS LOGARITHMIC.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:5 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRES PROGRAM CAT NO 890353 - LOGSCALE, 890352 - LOGAXIS PLUS CALCOMP PLOTTING ROUTINES.- LOGSCALE, 890352 - LOGAXIS
- 890352 900-SERIES LOGAXIS PLOTTING SUBROUTINE
AUTHOR:R. KOLE, MOTOROLA
ABSTRACT:
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER OF 10 INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: 11/26/69 REQUIRES: PROGRAMS FROM CALCOMP PACKAGE - PLOT, TIC, WHERE.
COMMENTS:
SYMBOL, WHERE, NUMBER.
DRAWS A LOGARITHMIC AXIS AT EITHER 0 OR 90, 'TICS' OFF THE INCREMENTS, AND WRITES THE POWER 10 INCREMENTS AT THE BEGINNING OF EACH DECADE.
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
STORAGE: DOC.PAGES:4 DATE:11/26/69
REQUIRES: PROGRAMS FROM CALCOMP PACKAGE PLOT, TIC, WHERE, SYMBOL, WHERE, NUMBER

- 890353 900-SERIES PLOTTING SUBROUTINE LOGSCALE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
CONVERTS VALUES OF A DATA ARRAY TO LOG FORM. USED IN PLOTTING ON LOG PAPER.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
- 890354 900-SERIES COMPLEX ARITHMETIC FUNCTIONS
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
FUNCTIONS USED FOR COMPLEX ARITHMETIC MAGNITUDE AND ANGLE; REAL AND IMAGINARY CONVERSIONS;
MULTIPLICATION, DIVISION, ADDING AND SUBTRACTING.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE: FORTRAN II SYSTEM:MONARCH STORAGE:8 DOC.PAGES:15 DATE:11/26/69
- 890355 900-SERIES BCD CONVERSION OF NUMERIC DATA
AUTHOR:BOB STEPHENS / JOHN DOLS - MOTOROLA
ABSTRACT:
CONVERSION OF FIXED OR FLOATING POINT NUMERIC DATA TO A4 OR A8 FORMATS AS REQUIRED.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:METASYMBOL SYSTEM:MONARCH STORAGE:197 DOC.PAGES:10 DATE:11/26/69
- 890356 900-SERIES ERASE MAGNETIC TAPE IN FORTRAN
AUTHOR:BOB STEPHENS - MOTOROLA INC.
ABSTRACT:
SUBROUTINES USED TO ERASE MAGNETIC TAPE TO A SPECIFIED LENGTH.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORT II SYSTEM:MONARCH STORAGE:133 DOC.PAGES:5 DATE:11/26/69
- 890377 900-SERIES SUBROUTINE RE20EQ
AUTHOR:J. HERRELL, MOTOROLA INC.
ABSTRACT:
THIS SUBROUTINE WILL SOLVE UP TO 20 SIMULTANEOUS EQUATIONS WITH REAL COEFFICIENTS AND 20 UNKNOWNNS.
COMMENTS:
PROGRAM TYPE:FORT SUB LANGUAGE:FORTRAN II SYSTEM:MONARCH
STORAGE: DOC.PAGES:6 DATE:12/04/69
- 890378 900-SERIES SUBROUTINE DASHPLOT PLOTTER
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
DRAWS A DASHED LINE FROM LOCATION OF PEN AT THE TIME OF CALL TO THE POINT(X,Y).
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC. PAGES:2 DATE:11/26/69.
REQUIRES CATALOG NUMBER 890330 PLOT
- 890379 900-SERIES LINEAR PLOTTING PACKAGE
AUTHOR:BRETT VALIQUET - MOTOROLA INC.
ABSTRACT:
PLOTS UP TO 10 CURVES ON LINEAR, LABELED AXIS. CONSISTS OF THREE SUBROUTINES-LINEAR, REPLOT 1, LINAX1.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:11 DATE:11/26/69
ADDITIONAL INFORMATION: REQUIRE PLOTTING PACKAGE FROM CALCOMP AND CATNO 890331 OR EQUIVALENT.
- 890380 900-SERIES ALPHAXIS PLOTTING ROUTINE
AUTHOR:RON KOLE - MOTOROLA INC.
ABSTRACT:
DRAWS AXIS OF SPECIFIED LENGTH AND ANNOTE WITH LABELS INSTEAD OF NUMBERS.
COMMENTS:
PROGRAM TYPE:FORT SUB. LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE: DOC.PAGES:4 DATE:11/26/69
ADDITIONAL INFORMATION: USES CATALOG NO 890331 AND CALCOMP ROUTINE SYMBOL
- 890384 900-SERIES FORTRAN PRECOMPILER FORT II-FORT IVH
AUTHOR:G. SAGER, HONEYWELL, INC.
ABSTRACT:
THE PRECOMPILER CONVERTS FORTRANII PROGRAMS TO BASIC FORTRAN IVH, ANNOTATES, GENERATES STATEMENTS
CONVERTING FORTRAN II NEGATIVE DO LOOPS TO AN EQUIVALENT POSITIVE DO, AND FLAGS IRREGULARITIES WHICH ARE
NOT CONVERTIBLE.
COMMENTS:
PROGRAM TYPE:PACKAGE LANGUAGE:FORTRANII SYSTEM:MONARCH STORAGE:7537 DOCU.PAGES:2 DATE:
10/10/70 THE PACKAGE CONSISTS OF A MAIN PROGRAM AND 37 FUNCTIONS AND SUBROUTINES.

- 890524 940 940 TELETYPE PLOT ROUTINES
AUTHOR: JOHN ALSTON, XDS
ABSTRACT:
940 FORTRAN II PLOTTING ROUTINES (TELETYPE PLOTTING). PLOTTING IS DONE ON A 51 X 51 CHARACTER GRID.
- 890525 900-SERIES NODE OPTIMIZATION ROUTINE
AUTHOR: D. MACNAK, MOTOROLA, INC.
ABSTRACT:
DECREASES THE SIZE OF THE MATRIX AS GENERATED BY CIRC. THIS IS DONE RENUMBERING THE NODES AND PRINTING A CONNECTION LIST.
- 890526 920 REAL-TIME FORTRAN RUN-TIME DEBUG
AUTHOR: J.W. SCHWARTZENBERG, LEEDS AND NORTHRUP
ABSTRACT:
A RUN-TIME DEBUG SUBROUTINE FOR USE WITH REAL-TIME FORTRAN II.
- 890527 92 DDT-92 DEBUGGING ROUTINE
AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
AN IN-CORE DEBUGGING PROGRAM OFFERING A COMPUTE-AND-HALT ROUTINE, DIRECT OCTAL OR SYMBOLIC I/O TO AND FROM CORE VIA TYPEWRITER, SYMBOLIC REFERENCING OF STORAGE, PAPER-TAPE SAVE OF THE LABEL TABLE AND PRODUCTION OF A SELF-FILLING, SELF-STARTING PAPER-TAPE OF THE PROGRAM IN CORE.
- 890528 910 CONVERSATIONAL FUNCTIONAL ASSEMBLER
AUTHOR: GERALD CAHILL, RPFTP, EDWARDS, CALIFORNIA
ABSTRACT:
THIS PROGRAM WAS WRITTEN TO ALLOW ENGINEERS AND MATHEMATICANS TO USE THE XDS 910 (OR WHAT YOU) AS THEY WOULD A MEMORY TYPE OF DESK CALCULATOR WITH THE ADDITIONAL CAPABILITY OF BUILT IN FUNCTIONS AND AN INCREASE OF PRECISION. THIS PROGRAM ALSO SERVES TO INTRODUCE ASSEMBLY LANGUAGE PROGRAMMING TO THOSE INTERESTED IN GETTING CLOSER TO THE MACHINE.
COMMENTS:
PROGRAM TYPE: PROGRAM LANGUAGE: FORTRAN II STORAGE: 8K DOC. PAGES: 45
- 890529 900-SERIES PRINTX-PRINTER SUBROUTINE
AUTHOR: D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
PRINT VARIABLE LENGTH RECORDS (120 CHARACTERS MAXIMUM OUTPUT) ON 9372 UNBUFFERED LINE PRINTER FROM VARIABLE-LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.
- 890530 900-SERIES PUNCHX PUNCH SUBROUTINE
AUTHOR: D.F. KOENIG BROOKHAVEN NATIONAL LABORATORY
ABSTRACT:
TO PUNCH VARIABLE LENGTH (80 CHARACTERS MAXIMUM) PAPER TAPE RECORDS FROM VARIABLE LENGTH BCD MAG TAPE RECORDS WITH SSW OPTIONS FOR HALT/PROCEED/REPEAT AT SINGLE AND DOUBLE END-OF-FILES.
- 890538 92 TABLCON
AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
A PROGRAM FOR CONVERTING THE PUNCHED MEMORY MAP FROM *QUBLDR-DD* TO A PUNCHED SYMBOL TABLE ACCEPTABLE FOR READING INTO *DDT-92*. IT WILL ADDITIONALLY LIST THE MAP ON THE CONSOLE TYPEWRITER IN BOTH ALPHABETIC AND ADDRESS VALUE SEQUENCE FLAGGING ANY UNDEFINED REF ITEMS FOUND DURING READ-IN OF THE MAP.
COMMENTS:
LANGUAGE: SYMBOL STORAGE: 017341
- 890539 92 QUBLDR DD-OPT PUNCH FOR INPUT TABLCON
AUTHOR: MARC OBERLY - CAMBRIDGE ELECTRON
ABSTRACT:
A MODIFIED VERSION OF QUBLDR (XDS PROGRAM NO. 720004) OFFERING: OPTIONAL PUNCHING OF THE MAP FOR INPUT TO THE PROGRAM *TABLCON*, NO LOADING OF PROGRAMS FROM CARDS, THE AUTOMATIC INITIALIZATION OF SCRATCHPAD FOR ITSELF AFTER FILLING OR USER CALL.
COMMENTS:
LANGUAGE: SYMBOL STORAGE: 00844
- 890540 930 MONARCH SYSTEM UPDATE
AUTHOR: SALLY BRECKENRIDGE UNIV. OF MICHIGAN
ABSTRACT:
UPDATE (850032) AND BOOTSTRAP (890031) COMPRISE THE SYSTEM UPDATE PROGRAM TO CREATE NEW MONARCH SYSTEM TAPES AND TO UPDATE EXISTING SYSTEM TAPES. UPDATED FROM A PROGRAM DEVELOPED BY BARRY MACRAE.

- 890541 930 A GENERAL MAG TAPE ROUTINE
AUTHOR:SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
ABSTRACT:
A GENERAL EASY-TO-USE MAGNETIC TAPE ROUTINE FOR THE 930. DEVELOPED FROM A PROGRAM BY DONALD HYPHE.
- 890542 930 EDIT (SERVICE PROGRAM) FOR MAGNETIC TAPE
AUTHOR:SALLY BRECKENRIDGE - UNIVERSITY OF MICHIGAN
ABSTRACT:
PROVIDES A METHOD FOR UPDATING SOURCE PROGRAMS ON MAGNETIC TAPE. UPDATED FROM A PROGRAM DEVELOPED BY DONALD HYPHE AND BARRY MACRAE.
- 890548 930 REGEN-A BINARY TO SYMBOLIC TRANSLATOR
AUTHOR:J.W. LAYLAND, JET PROPULSION LABORATORY
ABSTRACT:
REGEN IS A PROGRAM FOR TRANSLATING BETWEEN THE XDS 900 SERIES UNIVERSAL BINARY LANGUAGE AND A SYMBOLIC EQUIVALENT. THE PROGRAM OPERATES UNDER A BASIC MONARCH SYSTEM WITH ONE SCRATCH TAPE AND USES THE SYSTEM INPUT/OUTPUT ASSIGNMENTS. BREAKPOINTS 3 AND 4 SELECT THE PRODUCTION OF EITHER A LIST OUTPUT OR AN ASSEMBLABLE SYMBOLIC DECK OUTPUT. EXTERNAL REFERENCE AND DEFINITION ITEMS IN THE BINARY TEXT PROVIDE NAMES AND MAKE THE REGENERATED TEXT AS CLOSE AS POSSIBLE TO THE ORIGINAL SOURCE.
COMMENTS:
ADDITIONAL INFORMATION:NEEDS 1 SCRATCH TAPE.
- 890586 900-SERIES CROSS REFERENCE FOR FORTRAN PROGRAMS
AUTHOR:G. SAGER, HONEYWELL, INC.
ABSTRACT:
CROSS REFERENCE-LABEL, SUBROUTINE, VARIABLE. BY LINE NUMBER PRINTS FORTRAN PROGRAM, AS IT IS INPUT FROM THE CARD READER, ON THE LINE PRINTER. PRINTS TABLES FOR REFERENCE FOLLOWING LISTING.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH DOC.PAGES:1 DATE:06/01/70. ADDITIONAL INFORMATION:FUNCTIONS INCL. ICOMP,NXTANC. SUBROUTINES INCL. YSCAN, CREF, READCD, READTP, PRINTCD, INPUT, OUTPUT, LFIELD, LSCAN, CRUNCH, SCAN
- 890663 920 SHORT RELOCATING LOADER FOR 920/930
AUTHOR:A. HOFFET, CALTECH
ABSTRACT:
TO LOAD ABSOLUTE OR RELOCATABLE OBJECT PAPER TAPES IN STANDARD BINARY FORMAT. THIS LOADER REPLACES 000019 AND IS SHORTENED TO USE LOCATIONS 000 THROUGH 077 ONLY. THUS IT DOES NOT DESTROY THE POP LINKAGE TABLE AS DOES 000019. THE STANDARD CONSTANTS ARE OMITTED.
COMMENTS:
LANGUAGE:SYMBOL DOCU.PAGES:1
- 890664 920 SATFIX-SATELLITE ANGLE & RANGE COMPUTE
AUTHOR:R.W. GREAVES, RAYTHEON SERVICE CO.
ABSTRACT:
PROGRAM TO COMPUTE ANGLE AND RANGE OF A SATELLITE TO DIRECT A TRACKING SENSOR FOR ACQUISITION PURPOSES. REQUIRES 80/BI DEVICE, FORTRAN RUNTIME AND KEYBOARD PRINTER. COMMUNICATION WITH PROGRAM IS WRITTEN TO BE SELF-EXPLANATORY. PROGRAM CAN BE MODIFIED TO WRITE INFORMATION COMPUTED TO AN INPUT FILE TO BE READ INTO THE SENSOR DRIVE PROGRAM
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II STORAGE:948 DOCU.PAGES:2
- 890668 900-SERIES MUSIC - FOR 910/920
AUTHOR:C. KENDALL, XDS
ABSTRACT:
PAPER TAPE (PLUS AN FM RECEIVER) COMBINE WITH THE 910/920 TO PRODUCE A MEDLEY OF OVER 25 SONGS. ALSO ALLOWS YOU TO ADD TO REPERTOIRE.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE: MACHINE SYSTEM: S/A STORAGE:2000
- 890669 900-SERIES 300 ELECTRONIC CIRCUIT ANALYSIS (ECAP)
AUTHOR:J. HERRELL, MOTOROLA
ABSTRACT:
ECAP IS AN INTEGRATED SYSTEM OF PROGRAMS FOR USE BY ELECTRICAL ENGINEERS IN THE DESIGN AND ANALYSIS OF ELECTRONIC CIRCUITS. ECAP CAN PRODUCE DC, AC, AND/OR TRANSIENT ANALYSES OF ELECTRICAL NETWORKS FROM A DESCRIPTION OF THE CONNECTIONS OF THE NETWORK, A LIST OF CORRESPONDING CIRCUIT ELEMENT VALUES, A SELECTION OF THE TYPE OF ANALYSIS DESIRED, A DESCRIPTION OF THE CIRCUIT EXCITATION, AND A LIST OR OUTPUT DESIRED.
COMMENTS:
PROGRAM TYPE:PROGRAM LANGUAGE:FORTRAN II SYSTEM:MONARCH STORAGE:7116 DOCU.PAGES:4
COMMENTS: 900 SERIES MONARCH WITH 12K CORE.

- 890772 910 910 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890773 920 920 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890774 925 925 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890775 930 930 TRACE MODIFICATION
AUTHOR:T. FINERAN, CHRYSLER CORPORATION
ABSTRACT:
TRACE (CN 851012) HAS BEEN MODIFIED TO TRACE PREVIOUSLY ASSEMBLED PROGRAMS AS WELL AS PROGRAMS THAT CALL TRACE. THE OUTPUT FORMAT HAS BEEN CLEANED UP AND POPS AND EXU'S NOW TRACE PROPERLY.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890776 9-SERIES FORTRAN FLOWCHARTER
AUTHOR:P. CLAAAR, MCDONALD DOUGLAS
ABSTRACT:
THIS PROGRAM CREATES FLOWCHARTS OF FORTRAN PROGRAMS ON THE LINE PRINTER. A MAG TAPE UNIT MUST BE AVAILABLE FOR A SCRATCH TAPE DURING PROGRAM EXECUTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890842 9-SERIES SYSGEN 2 - 800 MONARCH
AUTHOR:L. BRENTON, XEROX CORPORATION
ABSTRACT:
THIS MODIFICATION OF SYSGEN 2 PROVIDES THE CAPABILITY OF PUTTING FORTRAN SUBROUTINES INTO THE FORTRAN LIBRARY (FORTLIB).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS OPERATING SYSTEM. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
THIS CHANGE IS BASED ON THE 800 VERSION OF RAD MONARCH. THE -74 CARD DECK CONTAINS BOTH THE SYSGEN 1 AND SYSGEN 2 BINARY DECKS AND LABEL CARDS.
- 890882 9300 SAM9300-SELECTIVE AUTO MONITOR PROGRAM
AUTHOR:G. KOSSUTH, DRAPER LABORATORY
ABSTRACT:
SELECTED REGIONS OF CORE CAN BE TRACED AND OCTAL CORE DUMPS TAKEN PROVIDING DEBUG INFORMATION TO THE METASYMBOL USER. TRACE WILL LIST EITHER OCTAL, FIXED POINT FRACTIONAL OR FLOATING POINT FORMAT.
COMMENTS:
THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER OR UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
- 890884 9300 CARD READER/PUNCH DIAGNOSTIC PROGRAM
AUTHOR:C. OGREN, C.S. DRAPER LABORATORY
ABSTRACT:
THIS PROGRAM PUNCHES A BINARY CARD DECK IN A KNOWN PATTERN (FOUR POSSIBILITIES) WHICH CAN BE READ BACK AND CHECKED FOR ERRORS. THE ERRORS ON THE READ PASS ARE OUTPUT WHEN THEY OCCUR, INDICATING THE CARD NUMBER, ROW, COLUMN, AND ERROR TYPE (DROPPED OR PICKED). ADDITIONALLY, THE ERRORS ARE SUMMARIZED AT THE END OF THE READ PASS INDICATING THE NUMBER OF ERRORS IN EACH ROW AND EACH COLUMN. THE READER AND PUNCH MAY BE OPERATED IN EITHER A CONTINUOUS OR START/STOP MODE, WITH A 250 MS DELAY BETWEEN I/O OPERATIONS.
COMMENTS:
THIS PROGRAM WILL RUN UNDER 800 TAPE MONITOR. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.

- 890885 9300 MAGNETIC TAPE TEST PROGRAM
AUTHOR:C. OGREN & E. HARTNETT, C.S. DRAPER LABORATORY
ABSTRACT:
THE PROGRAM PROVIDES FASTER MULTI-TESTING OF MAGNETIC TAPES WITH A MORE CONVENIENT USER-COMPUTER INTERFACE. THE TAPE TEST RESULTS ARE OUTPUT ON THE LINE-PRINTER. THE INFORMATION PROVIDED IS THE NAME OF THE TAPE, THE DATE TESTED, THE LENGTH OF THE TAPE IN FEET, THE NUMBER OF ERRORS, AND A LIST OF THE POSITIONS OF THE ERRORS IN FEET. THE PROGRAM HAS THE FACILITY TO TEST UP TO SEVEN TAPES WITH A MINIMUM OF USER ATTENTION.
COMMENTS:
THIS PROGRAM WILL RUN UNDER 800 TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN.
- 890886 9300 18K DGC NOVA SIMULATOR
AUTHOR:J. GARMIL, A. VIRET, G. KOSSUTH
ABSTRACT:
A BIT BY BIT DIGITAL SIMULATION OF A DATA GENERAL NOVA LINE COMPUTER WITH EXTENSIVE DEBUG CAPABILITY HAS BEEN DEVELOPED FOR PROGRAM CHECKOUT. FEATURES INCLUDE ADDRESS STOP, EFFECTIVE ADDRESS STOP, TRACE AND MEMORY DUMP WITH 18K SIMULATED MEMORY AND TTI, TTO, PTR, PTP, PTP, RTC, LPT, DEVICES SIMULATED. THE CPU RUNS APPROXIMATELY 100 TIMES SLOWER THAN REAL-TIME.
COMMENTS:
THIS PROGRAM WILL RUN UNDER TAPE MONITOR OPERATING SYSTEM. PROGRAM TYPE IS SIMULATOR. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN FORTRAN AND METASYMBOL.
- 890896 900-SERIES 9-SERIES MAG TAPE DIAGNOSTICS
AUTHOR:T. CHAPMAN, XEROX CORPORATION
ABSTRACT:
A TAPE WHICH CONTAINS ALL EXISTING 9-SERIES DIAGNOSTICS WITH AN EASY-TO-USE INDEXING AND LOADING SCHEME. FEATURES INCLUDE, 'H' AND 'Y' CHANNEL UNIVERSAL LOADERS, LISTABLE CATALOG NUMBERS ON LINE PRINTER OR TELETYPE, LISTABLE OPERATING INSTRUCTIONS FOR ALL DIAGNOSTICS, AND MANY C.E. ORIENTED SERVICE ROUTINES.
COMMENTS:
THIS PROGRAM WILL RUN UNDER DCP OPERATING SYSTEM. PROGRAM TYPE IS DIAGNOSTIC. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN METASYMBOL.
OPERATES UNDER MINIMUM CONFIGURATION OF 8K MEMORY FOR 900/9300 SYSTEMS, AND 4K MEMORY FOR 82 SYSTEMS WITH ONE MAG TAPE UNIT AND TELETYPE. THIS UPDATE IS FOR PROGRAM CORRECTIONS AND ADDITIONS. TAPE VERSION IS NOW A01.
- 890963 9-SERIES MAGTP
AUTHOR:A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
MAGTP IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS. IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 890964 9-SERIES MTAPE
AUTHOR:A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
MTAPE IS A MODIFICATION TO THE MONARCH MAG TAPE ROUTINES WHICH SPEEDS UP MAG TAPE OPERATIONS BY KEEPING THE TAPE MOVING DURING ALL MULTI-RECORD TAPE OPERATIONS. IT DOES NOT DISCONNECT THE TAPE UNIT AFTER EVERY RECORD. THE TAPE IS KEPT MOVING ON ANY MULTI-RECORD OPERATION WITH A SIGNIFICANT DECREASE IN TIME REQUIRED TO COMPLETE THE OPERATION (AS MUCH AS 50% IN THE CASE OF BCD CARD IMAGES ON 800 BPI TAPE).
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS UTILITY. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.
- 890965 9-SERIES SYMBOL
AUTHOR:A. MOFFET-CAL. INST. OF TECH., L. BRENTON-XEROX CORPORATION
ABSTRACT:
SYMBOL IS A MODIFICATION THAT IMPROVES THE SYMBOL ASSEMBLER IN MANY WAYS. OPTIONS ADDED INCLUDE A SECOND PASS FROM SI DEVICE, LIST-ONLY ERROR LINES, AND MULTIPLE ASSEMBLIES WITHOUT GOING BACK TO MONARCH. IMPROVEMENTS INCLUDE EDITING CARRIAGE RETURNS, TABS, AND BACKSPACES OUT OF BCD AND TEXT STATEMENTS, SEQUENCE NUMBERS ON CARDS FOR 80, AND FIVE INCHES OF BLANK TAPE ON PAPER TAPE 80.
COMMENTS:
THIS PROGRAM WILL RUN UNDER MONARCH OPERATING SYSTEM. PROGRAM TYPE IS ASSEMBLER. BASE LANGUAGE MAIN PROGRAM IS WRITTEN IN SYMBOL.

- 850639 9-SERIES PAPER TAPE PHOTO-READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTO READER.
COMMENTS:
SIZE 340 DECIMAL. CONFIGURATION: ANY 920 OR 910 WITH TYPEWRITER
- 850640 9-SERIES SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE
TYPEWRITER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 267 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER.
- 850655 9-SERIES PHOTO READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE PHOTO READER AND TO TEST ITS OPERATION IN CONTINUOUS AS WELL AS
STOP-START MODES OF OPERATION. THE OPERATOR MAY VARY THE TIME CONSTANTS CONTROLLING THE STOP AND START
TO TEST EXTREME CONDITIONS.
COMMENTS:
SIZE 146 DECIMAL. CONFIGURATION: ANY 910, 920, OR 930 WITH A PHOTO READER
- 850656 9-SERIES 900 SERIES CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151 OR 9152 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 535 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A CARD
PUNCH.
- 850657 9-SERIES CARD PUNCH TEST PROGRAM PACKAGE -9156
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9156 CARD PUNCH SYSTEM.
COMMENTS:
SIZE 172 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 920/930 OR 910/925 WITH A
TYPEWRITER, AND XDS MODEL 9151 OR 9152 CARD READER ON CHANNEL A (H). INTERLACE IS NOT USED.
- 850658 9-SERIES CARD PUNCH TEST PROGRAM -9157
AUTHOR: XEROX
ABSTRACT:
SIZE 223 DECIMAL. CONFIGURATION: XDS 920 OR XDS 910 WITH MODEL 9156 CARD PUNCH SYSTEM. FOR THE VERIFY
COMMENTS:
TEST, AN XDS MODEL 9151 CARD READER AND A TYPEWRITER ARE REQUIRED.
- 850659 9-SERIES CARD PUNCH TEST PROG/MOD.9157(INTERLACE)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 608 DECIMAL. CONFIGURATION: ANY 910, 920, 925, OR 930 WITH MODEL 9157
CARD PUNCH COUPLER SYSTEM.
- 850660 9-SERIES STANDARD CARD READER TEST DECK PROGRAM
AUTHOR: XEROX
ABSTRACT:
DOCUMENT STANDARD TEST CARD DECK FOR CARD READER TEST PROGRAM.
COMMENTS:
CONFIGURATION: ANY 900/9300 SERIES COMPUTER.
- 850661 9-SERIES 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 230 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH MODEL 9158
CARD PUNCH COUPLER SYSTEM. (WITHOUT INTERLACE AND EXTENDED MODE)

- 850670 9-SERIES EXAMINER DIAGNOSTIC SYSTEM 910/920-COVER
 AUTHOR: XEROX
 ABSTRACT:
 THE EXAMINER 910/920 SYSTEM IS COMPLETE DIAGNOSTIC PACKAGE DESIGNED TO GIVE THE OPERATOR THE ABILITY TO EXERCISE AND/OR DIAGNOSE THE MEMORY, THE COMPUTER LOGIC, THE BUFFER AND SOME ASSOCIATED PERIPHERAL EQUIPMENT. THE ENTIRE SYSTEM IS ON ONE TP TAPE FOR EASE OF HANDLING.
 COMMENTS:
 ALL OF THE ABOVE-MENTIONED TESTS, EXCEPT THE MEMORY TESTS, ARE INCLUDED IN ONE PROGRAM, (MODEL NO. 850670). THE MEMORY PROGRAM MUST BE SEPARATE DUE TO THE NATURE OF THE PROCEDURE. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM.
- 850671 9-SERIES INSTRUCTION DIAGNOSTIC
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
 COMMENTS:
 THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL NUMBER 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.
- 850672 9-SERIES MEMORY DIAGNOSTIC
 AUTHOR: XEROX
 ABSTRACT:
 THE PROGRAM EXERCISES MEMORY IN THE MOST STRENUOUS MANNER POSSIBLE, MONITORS THE MEMORY FOR ERRORS WHILE EXPOSED TO SUCH CONDITIONS, AND AIDS THE OPERATOR IN DIAGNOSING MEMORY FAILURES.
 COMMENTS:
 MEMORY DIAGNOSTIC IS AVAILABLE ON A SEPARATE TAPE, AND IS ALSO AVAILABLE AS PART OF EXAMINER DIAGNOSTIC SYSTEM MODEL NUMBER 850670. SEE MANUAL 900019: 910/920 EXAMINER DIAGNOSTIC SYSTEM TECH MANUAL.
- 850673 9-SERIES 15KC MAG TAPE TEST-INTERUPT AND INTRLACE
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM AIDS IN TESTING THE INPUT/OUTPUT CAPABILITIES OF THE 9140 OR 9145 MAGNETIC TAPE UNIT USING INTERRUPT AND/OR INTERLACE.
 COMMENTS:
 SIZE: 840 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH ONE 9140 OR 9145 MAGNETIC TAPE UNIT.
- 850674 9-SERIES MAGNETIC TAPE SYSTEM EXERCISER-15KC
 AUTHOR: XEROX
 ABSTRACT:
 TO EXERCISE A TAPE UNIT BY WRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETWEEN 64 AND 4092 CHARACTERS IN LENGTH AND READING THIS FILE BACK CHECKING FOR ERRORS. COUNTERS SHOWING THE NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE END OF A PASS.
 COMMENTS:
 SIZE: 1024 DECIMAL. CONFIGURATION: EITHER 910 OR 920 WITH ONE TAPE CONNECTED TO THE W BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.
- 850675 9-SERIES 15KC MAGNETIC TAPE TEST
 AUTHOR: XEROX
 ABSTRACT:
 TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 15KC MAGNETIC TAPE UNITS.
 COMMENTS:
 SIZE: 592 DECIMAL. CONFIGURATION: ALL XDS 920 SYSTEMS AND ANY 910 WITH A TYPEWRITER WHICH HAVE ONE OR MORE MAGNETIC TAPE UNITS CONNECTED TO THE W BUFFER.
- 850676 9-SERIES MULTI-MAGNETIC TAPE SYSTEM EXERCISER
 AUTHOR: XEROX
 ABSTRACT:
 THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO SIXTEEN TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
 COMMENTS:
 SIZE 1155 DECIMAL. CONFIGURATION: ALL 920, 925 AND 930 SYSTEMS, OR ANY 910 SYSTEMS WITH A TYPEWRITER, WHICH HAVE ONE TO SIXTEEN TAPE UNITS ATTACHED TO THE W AND / OR Y BUFFERS. NO INTERLACE IS REQUIRED AND THE TAPES MAY BE OF ANY DENSITY AND SPEED WITHIN THE LIMITATIONS OF THE BUFFER TO WHICH THEY ARE ATTACHED.
- 850679 9-SERIES MAGNETIC TP EXERCISER, 2 TP SYTH-15KC
 AUTHOR: XEROX
 ABSTRACT:
 TO ALTERNATELY EXERCISE TWO TAPE UNITS (NO. 0 AND NO. 4) BY WRITING A FILE CONSISTING OF RANDOM NUMBERS IN RANDOM LENGTH RECORDS BETWEEN 64 AND 4092 CHARACTERS IN LENGTH ON ONE TAPE, READING THIS FILE BACK CHECKING FOR ERRORS AND THEN DOING THE SAME ON THE SECOND TAPE. COUNTERS SHOWING THE NUMBER OF ERRORS OR PASSES OVER THE TAPE ARE PRINTED OR PUNCHED WHENEVER AN ERROR OCCURS OR AT THE
 COMMENTS:
 END OF A PASS. SIZE: 1024 DECIMAL. CONFIGURATION: EITHER 910 OR 920 WITH ONE OR TWO TAPES CONNECTED TO W BUFFER. TYPEWRITER IS USED TO PRINT RESULTS, BUT IS NOT NECESSARY FOR PROGRAM CONTROL.

- 850881 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM Y BUFFER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND SUBSEQUENT TESTING OF TAPE UNITS.
COMMENTS:
SIZE: 593 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE Y BUFFER. THE BUFFER MUST BE INTERLACED.
- 850892 900-SERIES 42KC MAG TAPE SYS EXERCISER, Y BUF
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS, OR ANY 910 WITH TYPEWRITER, WHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE Y BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE Y BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.
- 850891 9-SERIES BUFFERED LINE PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 PRINTER 1 (W-BUFFER) ON A 910 OR 920. INTERLACE IS NOT REQUIRED.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE: 1161 DECIMAL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH AN XDS BUFFERED LINE PRINTER, USING 8 CHANNEL FORMAT TAPE FOR SKIPPING.
- 850892 9-SERIES OFF-LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS FOR TESTING THE OFF-LINE OPERATION OF THE PRINTER.
COMMENTS:
SIZE: 408 DECIMAL. CONFIGURATION: ANY 910, 920, OR 930 WITH A TYPEWRITER, PRINTER WITH OFF-LINE FEATURE, AND TAPE UNIT OR CARD READER ATTACHED TO THE W BUFFER.
- 850893 9-SERIES BUFFERED PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1290 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A BUFFERED LINE PRINTER CONNECTED TO THE W OR Y BUFFER, AND WITH A TYPEWRITER CONNECTED TO THE W BUFFER.
- 850894 9-SERIES UNBUFFERED LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE PRINTER'S RESPONSE TO PROGRAM GENERATED COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 1510 DECIMAL. CONFIGURATION: ANY XDS 910, 920, 925, OR 930 COMPUTER WITH A MODEL 9372 LINE PRINTER CONNECTED TO CHANNELS W OR Y AND A TYPEWRITER CONNECTED TO CHANNEL W.
- 850895 9-SERIES 42KC MAGNETIC TAPE TEST PROGRAM, W BUFFER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF 42KC MAGNETIC TAPE UNITS.
COMMENTS:
SIZE 587 DECIMAL. ANY 900 SERIES WITH A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE EXCEPT 9145 ATTACHED TO THE W BUFFER. THE BUFFER MUST BE INTERLACED.
- 850896 9-SERIES 42KC MAGNETIC TAPE EXERCISER, W BUFFER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE FROM ONE TO EIGHT TAPE UNITS BY FIRST WRITING RANDOM NUMBERS IN RANDOM LENGTH RECORDS ON ALL TAPES UNDER TEST AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, THE MODE OF OPERATION OF EACH UNIT, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SIZE 990 DECIMAL. CONFIGURATION: ALL 920 SYSTEMS (OR 910 WITH TYPEWRITER) WHICH HAVE ONE OR MORE TAPE UNITS ATTACHED TO THE W BUFFER THROUGH A 9248 TAPE CONTROL UNIT. THE W BUFFER MUST HAVE A 9121 INTERLACE CONTROL ATTACHED.

- 850699 9-SERIES CALCOMP PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-78 INCREMENTAL PLOTTER.
COMMENTS:
SIZE 265 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER WITH XDS MODEL 9175-78 INCREMENTAL PLOTTER.
- 850702 9-SERIES P + S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE P AND S REGISTERS AND THE DATA FLOW BETWEEN THE P,S AND C REGISTERS, BY ACCESSING EVERY CELL IN MEMORY NOT USED BY THE PROGRAM WITH A BRM OR A BRR WHILE TESTING FOR CORRECT RESPONSE AFTER THE ACCESS. THE IA FLIP-FLOP WHICH IS USED TO INCREMENT THE P AND C REGISTERS DURING BRM AND BRR IS ALSO RIGOROUSLY EXERCISED.
COMMENTS:
THIS PROGRAM IS PART OF THE 910/920 EXAMINER DIAGNOSTIC SYSTEM, MODEL NUMBER 850870.
- 850703 9-SERIES 910/920/925 DIAGNOSTIC CONTROL PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS DIAGNOSTIC CONTROL PROGRAM IS TO PROVIDE THE CONTROL INTERFACE, VIA THE TEST LANGUAGE INTERPRETER, FOR SUBROUTINES THAT DRIVE A PERIPHERAL DEVICE AND TO CONTROL SUBROUTINE INTERACTIVE FUNCTIONS. BY DESCRIBING THE STRUCTURE OF THE TEST LANGUAGE THAT THE OPERATOR WILL USE IN ACTIVATING THE DCP, THIS DOCUMENT PROVIDES THE OPERATOR WITH A PERIPHERAL INDEPENDENT ON-LINE MEANS OF DIRECTING THE SEQUENCE OF EVENTS PERFORMED UPON THE PERIPHERAL DEVICE. THIS PROGRAM IS ALSO A SOURCE REFERENCE FOR DESCRIBING THE SUBROUTINES WHICH MUST BE ASSEMBLED WITH THE DCP, IF IT IS TO COMPRISE A FREE-STANDING TEST PROGRAM.
- 850711 9-SERIES PRIORITY INTERRUPT TEST
AUTHOR: XEROX
ABSTRACT:
FOR USE IN CONJUNCTION WITH A SPECIAL TEST CARD TO FACILITATE TESTING OF PRIORITY INTERRUPTS DURING PRODUCTION OR FIELD MAINTENANCE. OPTIONAL MODES OF TESTING ARE PROVIDED SO THAT THE PROGRAM MAY BE USED AS A THROUGH, AUTOMATIC GO - NO - GO TEST OR AS A SEMIAUTOMATIC DIAGNOSTIC AID.
COMMENTS:
SIZE 500 DECIMAL. CONFIGURATION: ANY 910/920 COMPUTER.
- 850712 9-SERIES UNBUFFERED LINE PRINTER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9170 LINE PRINTER.
- 850716 9-SERIES 9161 DRUM MEMORY TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9161-N DRUM MEMORY SYSTEM.
COMMENTS:
SIZE 1817 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND AN XDS MODEL 9161-N DRUM MEMORY SYSTEM AND AN INTERLACED W-BUFFER. THE 'N' SIGNIFIES THE SIZE OF THE DRUM.
- 850717 9-SERIES 1622 CARD READ/PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 1622 CARD READ/PUNCH.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8. SIZE 474 DECIMAL. CONFIGURATION: ANY XDS 910 OR XDS 920 COMPUTER WITH TYPEWRITER AND AN IBM 1622 CARD READER AND PUNCH.
- 850720 9-SERIES POWER FAIL-SAFE INTERRUPT TESTER
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A PROGRAM TO TEST THE POWER FAIL-SAFE INTERRUPT SYSTEM.
COMMENTS:
CONFIGURATION: ANY 910, 920, OR 930.
- 850721 9-SERIES ARM/DISARM FEATURE CHECKOUT
AUTHOR: XEROX
ABSTRACT:
TO CHECK OUT, THOROUGHLY, THE OPERATION OF THE ARM-DISARM FEATURE.
COMMENTS:
SIZE 1652 DECIMAL. CONFIGURATION: ANY 900 SERIES COMPUTER WITH TYPEWRITER. 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE.

- 850722 9-SERIES FRANKLIN PRINTER TEST PROGRAM
 AUTHOR: XEROX
 ABSTRACT:
 TO PROVIDE A MEANS OF TESTING THE FRANKLIN PRINTER FOR PROPER OPERATION.
 COMMENTS:
 SOURCE LANGUAGE: SYMBOL. SIZE 887 DECIMAL. CONFIGURATION: ANY 910 OR 920 COMPUTER WITH 1,2, OR 3 FRANKLIN PRINTERS AND PAPER TAPE I/O.
- 850724 9-SERIES 9158 CATHODE-RAY TUBE DISPLAY TEST PROG.
 AUTHOR: XEROX
 ABSTRACT:
 TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
 COMMENTS:
 SIZE 4095 DECIMAL. SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING ONE OF THE FOLLOWING CHANNEL CONFIGURATION: XDS 910 OR 920: 24-BIT Y BUFFER OR PARALLEL INPUT-PARALLEL OUTPUT (PIN-POP) CONNECTOR. XDS 925 OR 930: TMCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR. A PAPER TAPE READER OR CARD READER ON CHANNEL W IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ON CHANNEL W IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.
- 850725 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD)
 AUTHOR: XEROX
 ABSTRACT:
 TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RAD'S.
 COMMENTS:
 SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 910 OR 920 COMPUTER WITH A TYPEWRITER (NO. 1) ATTACHED TO THE W-BUFFER AND ONE OR MORE (9366) RAD'S ATTACHED TO A 24 BIT Y BUFFER WITH A 9321 INTERLACE.
- 850726 9-SERIES MODEL 9333 7 OR 8 LEVEL PAPER TAPE TEST
 AUTHOR: XEROX
 ABSTRACT:
 THE PROGRAM IS DESIGNED TO VERIFY THE CAPABILITIES OF THE READER AND PUNCH MECHANISM AND ELECTRONICS. IT IS SUGGESTED THAT THE APPROPRIATE 7-LEVEL PAPER TAPE TEST PROGRAM BE USED TO EXERCISE THE SPOOLER MECHANISM AND THE START-STOP CHARACTERISTICS OF THE PINCH ROLLER.
 COMMENTS:
 SOURCE LANGUAGE: META-SYMBOL. SIZE 881 DECIMAL. CONFIGURATION: ANY XDS 910,920, 925 OR 930 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, A TYPEWRITER, AND A MODEL 933 7- OR 8-LEVEL PAPER TAPE READER AND PUNCH, CONNECTED AS UNIT NUMBER 1 AND 2 TO A W OR Y BUFFER. INTERLACE IS NOT USED.
- 850727 9-SERIES 9185 CATHODE RAY TUBE DISPLAY UNIT/S RE1
 AUTHOR: XEROX
 ABSTRACT:
 TO PROVIDE A MEANS OF CHECKOUT AND ADJUSTMENT OF THE OSCILLOSCOPE COUPLER, DISPLAY UNIT, AND REFRESH MEMORY.
 COMMENTS:
 SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 910 COMPUTER WITH A MODEL 9185 CRT + STE-10 REFRESH MEMORY ATTACHED TO THE Y BUFFER. THE PROGRAM REQUIRES INTERLACE FEATURE TO BE PRESENT. A PAPER TAPE READER OR CARD READER ATTACHED TO THE W BUFFER IS REQUIRED FOR PROGRAM LOADING. A TYPEWRITER ATTACHED TO THE W BUFFER IS REQUIRED FOR OPERATOR-COMPUTER COMMUNICATION.
- 850735 9-SERIES PRIORITY INTERRUPT SOURCE TEST
 AUTHOR: XEROX
 ABSTRACT:
 TO INDICATE WHICH PRIORITY INTERRUPTS ARE BEING RECEIVED ONLY INTERRUPTS 200-237 ARE CONSIDERED.
 COMMENTS:
 SIZE 2048 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER AND EXTRA INTERRUPTS.
- 850739 9-SERIES ANALOG COMPARISON TEST
 AUTHOR: XEROX
 ABSTRACT:
 INPUTS TEN SETS OF ANALOG DATA AT A 400 CYCLE RATE AND COMPARES LAST NINE DATA SETS WITH THE INITIAL DATA SET.
 COMMENTS:
 SIZE:260 DECIMAL. CONFIGURATION: ANY XDS 910 OR 920 WITH TYPEWRITER, AN AD10-9 ANALOG TO DIGITAL CONVERTER, MU31-4 20-CHANNEL MULTIPLEXER, AND 9128 PRIORITY INTERRUPT CONTROL.
- 850741 930 PATCH, PROGRAMMED ANALOG TOTAL CHECK
 AUTHOR: XEROX
 ABSTRACT:
 THIS COMPILER-RUN TIME COMBINATION PROVIDES ON-LINE STATIC AND OFF-LINE DYNAMIC CHECK VALUES FOR VERIFICATION OF HYBRID AND ANALOG COMPUTER SOLUTIONS.THE ON-LINE STATIC CHECK ALSO PROVIDES FOR ANALOG COMPONENT DIAGNOSTICS.
 COMMENTS:
 SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION:900 SERIES REAL-TIME MONITOR

- 850743 910 JPL HSDL TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM TESTS THE TRANSFER OF DATA TO AND FROM THE HSDL UNIT VIA THE COMPUTER'S POT AND PIN LINES. DATA WORDS ARE SENT OUT AND COMPARED WITH THE WORDS RETURNED. IF THE TWO ARE NOT IDENTICAL, AN ERROR MESSAGE IS PRINTED. THE PROGRAM IS SELF-LOADING.
COMMENTS:
OPTIONS ARE PROVIDED TO SEND 24 BIT OR 12 BIT PSEUDO-RANDOM NUMBERS OR TO ALLOW OPERATOR INPUT OF DATA WORDS.
- 850744 920 JPL HSDL COUPLER EXERCISER
AUTHOR: XDS DATA SYSTEMS
ABSTRACT:
EXERCISES THE JPL ASDL COUPLER IN TEST MODE BY REPEATEDLY TRANSMITTING, RECEIVING, AND COMPARING A SYNCH-HEADER WORD AND A DATA WORD. BOTH WORDS CAN BE VARIED BY THE OPERATOR. COMPARISON, INTERRUPT, AND SKS ERRORS ARE REPORTED ON THE TYPEWRITER.
COMMENTS:
CONFIGURATION: ASDL, PAPER TAPE READER, TELETYPE AND 910 OR 920 COMPUTER.
- 850755 925 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EMOS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95469 9TRACK MAGNETIC TAPE SYSTEMS
- 850901 9-SERIES 910/925 STANDARD ANALOG TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 12288. CONFIGURATION: ANY 910/925 WITH ASSOCIATED ANALOG I/O EQUIPMENT, TYPEWRITER AND PAPER TAPES I/O.
- 851048 9-SERIES 930 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900097; 920/930 EXAMINER DIAGNOSTIC TECHNICAL MANUAL VOL. I AND II.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.S 851049, 851050 AND 851051.
- 851049 9-SERIES 930 EXAMINER MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE MEMORY WITH A CHECKERBOARD MEMORY WORD PATTERN; TO MONITOR MEMORY FOR ERRORS AND AID IN DIAGNOSING MEMORY FAILURES.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.
- 851050 9-SERIES 930 EXAMINER INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO AID IN DIAGNOSING COMPUTER FAULTS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930 THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.
- 851051 9-SERIES 930 EXAMINER P AND S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE P AND S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE "MARK" OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECK WHETHER THE P AND S REGISTERS FUNCTIONED PROPERLY.
COMMENTS:
SOURCE LANGUAGE: SYMBOL 8 ASSEMBLER. CONFIGURATION: XDS 930. THIS PROGRAM IS PART OF CATALOG NO. 851048 (COVER). SEE MANUAL 900097, 930 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. VOL. I + II.

- 851052 9-SERIES 930 BIO MEMORY ADDRESSING TEST
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC VERIFIES THE ABILITY OF A 930 (20K OR LARGER) TO UNIQUELY ACCESS EVERY LOCATION IN CORE VIA BOTH THE 'MEMORY EXTENSION REGISTERS' AND THE '91903 MEMORY ADDRESS EXTENSION' OPTION.
- 851054 9-SERIES MTE-1 MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 6120 DECIMAL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER TELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND AN MTE-1 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.
- 851055 9-SERIES MTE-3 MAG TAPE EXERCISOR, 3 CHAR MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAG TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER TELETYPE TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.
- 851056 9-SERIES MTE 3 MAG TAPE EXERCISOR 4 CHAR MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 COMPUTER WITH A 24-BIT EXTENDED W BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO THE W BUFFER.
- 851057 9-SERIES MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 369 DECIMAL. CONFIGURATION: ANY XDS 930 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLED) POWER FAIL-SAFE.
- 851058 9-SERIES 930 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 1-2 MEMORY BANKS TOTALING UP TO 32K (ALTHOUGH THE CFE WILL BE TESTED WITH ONLY THE FIRST 16K), CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER NO. ON CHANNEL W.)
- 851060 9-SERIES REAL TIME CLOCK TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 600 DECIMAL CONFIGURATION: ANY XDS 925 OR 930 COMPUTER WITH A PAPER TAPE READER, A TYPEWRITER ATTACHED TO THE W BUFFER, AND A 91880 REAL TIME CLOCK.
- 851062 930 9165 DISC EXERCISER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE, SEEK, AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER THE CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
COMMENTS:
THE PROGRAM WILL OPERATE ON A 930 WITH A 9164-01 SINGLE ACCESS DISC FILE CONTROLLER AND A 9165 DISC FILE STORAGE ON THE W-CHANNEL.

- 851063 930 930 RAD DIAGNOSTIC FOR 9387 RAD
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPEWRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LEAD TIME.
COMMENTS:
THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL. TWO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SET UP BEFORE THE RAD IS DRIVEN. THIS IS NECESSARY TO CHECK THE 'EARLY WORD' INTERRUPT OPTION. ALL ERROR MESSAGES AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPEWRITER. READ DATA IS CHECKED AGAINST A KNOWN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER CATALOG NUMBER 850648.
- 851100 9-SERIES 925 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900649 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM COVERS CATALOG NO.'S 851101,851102,851103.
- 851101 9-SERIES 925 MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES MEMORY WITH THE CHECKERBOARD MEMORY WORD PATTERN; IT MONITORS THE MEMORY FOR ERRORS AND AIDS IN DIAGNOSING MEMORY FAILURES.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: META-SYMBOL. SIZE: 208 DECIMAL. CONFIGURATION: ANY 925.
- 851102 9-SERIES 925 INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM AIDS IN DIAGNOSING FAULTY COMPUTERS BY VERIFYING PROPER EXECUTION OF COMPUTER LOGIC.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 2271 DECIMAL. CONFIGURATION: ANY 925.
- 851103 9-SERIES 925 P-AND-S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
THIS TEST PROGRAM EXERCISES THE P-AND-S REGISTERS BY STORING AND EXECUTING BRM'S THROUGHOUT MEMORY. BY COMPARING THE 'MARK' OF THE BRM WITH AN EXPECTED VALUE, THE PROGRAM CHECKS WHETHER THE COMPUTER STORED THE CORRECT LOCATION. THEREFORE, THE TEST CHECKS WHETHER THE P-AND-S REGISTER FUNCTIONED PROPERLY.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NO. 851100 (COVER). SEE MANUAL 900469, 925 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SOURCE LANGUAGE: SYMBOL 8. SIZE: 164 DECIMAL. CONFIGURATION: ANY 925.
- 851104 9-SERIES 925 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: 910 META-SYMBOL. SIZE: 1309 DECIMAL. CONFIGURATION: 925 WITH UP TO 16K OF CORE STORAGE, A CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION TO THE ABOVE, IT IS ADVISABLE TO HAVE TYPEWRITER =1 ON CHANNEL W.)
- 851107 9-SERIES EXTENDED MODE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL. CONFIGURATION: ANY 925/930 COMPUTER WITH A TYPEWRITER ATTACHED TO THE W CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE W CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.
- 851110 9-SERIES 925/930 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151, OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 611 DECIMAL. CONFIGURATION: ANY 925/930 WITH TYPEWRITER ON CHANNEL A AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A THCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READING.

- 851111 9-SERIES 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 314 DECIMAL. CONFIGURATION: ANY 925/930 WITH INTERLACE, WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM. MAY BE USED ON CHANNELS W,Y,C,D,E,F,G,H.
- 851113 9-SERIES EXTENDED MODE MULTI-MAGNETIC TAPE EXER.
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THROUGH H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES AND ALL SKS'S AND EOM'S ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE 1903 DECIMAL. CONFIGURATION: ANY 925/930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL I HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).
- 851114 9-SERIES MAGNETIC TAPE TEST PROGRAM FOR 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPES UNITS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: AN XDS MODEL 925/930 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED TO THE W BUFFER AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.
- 851115 9-SERIES DATA MULTIPLEX CHANNEL TEST 925/930
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATION OF DSC 1 WITH AND WITHOUT INTERRUPTS
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. COMPUTER CONFIGURATION ANY 925 OR 930 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL I HAVING A PAPER TAPE PUNCH AND PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).
- 851117 9-SERIES DSC-11 DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-11 TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851118 9-SERIES DACC DIAGNOSTIC TEST WITH JX35 TESTER925
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851119 9-SERIES TMCC DIAGNOSTIC TEST FOR 925/930
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A TIME MULTIPLEXED COMMUNICATION CHANNEL TEST INDEPENDENT OF A PERIPHERAL DEVICE.
- 851122 9-SERIES 9174/9179 PRINTER DIAGNOSTIC 925/930
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.
- 851123 9-SERIES 9379 PRINTER DIAGNOSTIC 925/930
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 925 OR 930 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY INTERLACED TMCC OR DACC.
- 851124 9-SERIES 9372 UNBUFFERED LINE PRINTER TEST 925/93
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 PRINTER BY GENERATING SPECIFIED PRINT PATTERNS AND MONITORING THE PRINTER'S RESPONSE TO PROGRAM-GENERATED COMMANDS.

- 851127 9-SERIES DISC FILE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE OF THE 9184 MOVABLE ARM DISC.
- 851128 9-SERIES DISC FILE DIAGNOSTIC (DFD) 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE THE CAPABILITY TO DIAGNOSE THE OPERATION OF THE MODEL 9287 RAD.
- 851129 9-SERIES RAD APOCALYPTIC DIAGNOSTIC (RAD) 925/930
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF R.A.D.'S.
- 851130 9-SERIES TEST PROGRAM DISC FILE MODEL 9387-A 925/
AUTHOR: XEROX
ABSTRACT:
TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE UNIT MODEL 9387-A.
- 851134 925 9 TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM
- 851135 900-SERIES SEMI AUTO TYPEWRITER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE. THE OPERATOR MAY SELECT THE W BUFFER OR THE Y BUFFER AND TYPEWRITER NO. 1 OR TYPEWRITER NO. 2.
COMMENTS:
THE PROGRAM REQUIRES 368 DECIMAL LOCATIONS, IS SELF-LOADING AND RELOCATABLE. THE PROGRAM WILL OPERATE WITH EITHER THE SELECTRIC OR TELETYPE KEYBOARD/PRINTER DEVICES.
- 851136 930 DEE-60 SIMULATOR SYSTEM DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE AND TEST ALL DEE-60 SIMULATOR SYSTEM INTERFACE HARDWARE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. CONFIGURATION: XDS 930 WITH 32K CORE AND DEE-60 HARDWARE.
- 851137 910 JPL APS-100 SYSTEMS DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND DESCRIBE MALFUNCTIONS IN THE JPL APS-100 SYSTEM.
COMMENTS:
STAND ALONE ABSOLUTELY LOADED. CODED IN 910 METASYMBOL. STORAGE REQUIRED THROUGH 2820.
- 851152 92 INTERRUPT-INTERLACE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE INTERRUPT AND INTERLACE OPERATIONS AS POSSIBLE WITH PAPER TAPE I/O OPERATIONS. GIVEN IN I/O CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL WITH 92 PROCEDURES DECK. SIZE: 993 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH PAPER TAPE READER AND/OR PAPER TAPE PUNCH ATTACHED TO THE I/O CHANNEL. THE INTERRUPT AND/OR INTERLACE FEATURES MAY EXIST IN ANY COMBINATION WITH RESPECT TO THE I/O CHANNELS.
- 851153 92 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THE XDS 92 EXAMINER SYSTEM IS A COMPLETE MAIN FRAME DIAGNOSTIC PACKAGE, WHICH VERIFIES SUCCESSFUL OPERATION OR ISOLATES ERRORS AND DIAGNOSES THE PROBABLE CAUSE OF ERRORS FROM ALL HARDWARE TESTED BY THE SYSTEM.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. THIS PROGRAM COVERS CATALOG NO. S: 851154 THRU 851156. SEE MANUAL 900878. 92 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.

- 851154 92 DIAGNOSTIC (MAIN-FRAME DIAGNOSTIC)
AUTHOR: XEROX
ABSTRACT:
TO TEST ALL OPERATIONS WITHIN THE 92 EXCEPT THOSE RELATED TO I/O. THESE INCLUDE ALL NON-I/O INSTRUCTIONS, REGISTER TRANSFERS, ADDRESSING MODES, AND ADDER FUNCTIONS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 2000 DECIMAL. CONFIGURATION: MINIMUM OF 2K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.
- 851155 92 2-4K MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 4000 DECIMAL. CONFIGURATION: 2K OR 4K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.
- 851156 92 8-16-32K MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATIONS, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM-GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: 920 META-SYMBOL. SIZE: 8000 DECIMAL. CONFIGURATION: 9, 16, 32K CORE AND PAPER TAPE READER. PART OF 851153, EXAMINER DIAGNOSTIC SYSTEM.
- 851157 92 92 TYPEWRITER TEST
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE TYPEWRITER UNDER OPERATOR CONTROL
- 851166 92 PAPER TAPE READER TEST
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE THE PAPER TAPE READER AND TEST ITS OPERATION.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL/92. SIZE: 2148 DECIMAL. CONFIGURATION: ANY 92 COMPUTER.
- 851168 92 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9150, 91510, 9152 OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 904 DECIMAL. CONFIGURATION: ANY XDS 92 WITH TYPEWRITER AND XDS MODEL 9150, 91510, 9152 OR 9153 CARD READER IN UNIT NUMBER 1 POSITION. INTERRUPTS AND/OR INTERLACE ARE NOT REQUIRED FOR OPERATION OR TEST PROGRAM.
- 851170 92 MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A SIMPLE AND EASY MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1412 DECIMAL. CONFIGURATION: ANY XDS 92 COMPUTER WITH 4K MEMORY, A TYPEWRITER AND ONE OR MORE MAGNETIC TAPE UNITS OF ANY TYPE ATTACHED TO THE I/O CHANNEL. INTERLACE AND I/O CHANNEL INTERRUPTS ARE NOTE USED IN THE PROGRAM.
- 851171 92 MULTI-MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE TAPE UNITS BY WRITING A FILE CONSISTING OF RANDOM LENGTH RECORDS OF RANDOM NUMBERS AND READING THE RAPE BACK CHECKING FOR ERRORS. COUNTERS ARE MAINTAINED BY THE PROGRAM, TALLYING THE NUMBER OF PASSES MADE AND THE NUMBER OF VARIOUS TYPES OF ERRORS. THE PROGRAM WILL EXERCISE UP TO 8 TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 2174 DECIMAL. CONFIGURATION: A 92 COMPUTER WITH ONE OR MORE MAGNETIC TAPES AND A TYPEWRITER.
- 851173 92 DSC-1 DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE: 2702 DECIMYMBOL WITH XDS 92 92, I/O TESTER, DSC-1 AND TYPEWRITER.

- 851174 92 DSC-II DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A DATA MULTIPLEXING CHANNEL TEST, INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 2358 DECIMAL. CONFIGURATION: ANY XDS 92 WITH I/O TESTER, DSC-II AND TYPEWRITER.
- 851175 92 INT. BPO, BPI DIAGNOSTIC TEST FOR XDS 92
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS TEST IS TO MAKE AVAILABLE A BPO/BPI TEST, AND/OR AN INTERRUPT CHASSIS TEST, BY USING THE I/O TESTER INSTEAD OF PERIPHERAL DEVICES.
COMMENTS:
SOURCE LANGUAGE: XDS 920 META-SYMBOL WITH XDS 92 PROCEDURE DECK. SIZE 1905 DECIMAL. CONFIGURATION: ANY XDS 92 WITH I/O TESTER, TYPEWRITER, AND INTERRUPT CHASSIS (NOT NECESSARY IF ONLY BPO/BPI IS TO BE TESTED).
- 851179 92 MOD. 9372 UNBUF.LINE PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM HAS BEEN DESIGNED PRIMARILY TO TEST THE BASIC FUNCTIONS OF THE 9372 PRINTER UTILIZING A LIMITED AMOUNT OF CORE. TO ACHIEVE THESE ENDS SOME LIMITATIONS HAVE BEEN PUT ON KEYBOARD ENTRIES (MUST BE OF COMPLETE NATURE), AND TITLE PRINTOUTS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1720 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9372 UNBUFFERED LINE PRINTER.
- 851180 92 BUFFERED LINE PRT. DIAGNOSTIC 9379/9171
AUTHOR: XEROX
ABSTRACT:
THE DIAGNOSTIC PROGRAM WILL PROVIDE A COMPREHENSIVE TEST FOR THE BUFFERED LINE PRINTER WITHIN A LIMITED AMOUNT OF CORE.
COMMENTS:
SIZE: 1571 DECIMAL. CONFIGURATION: ANY XDS 92 WITH A MODEL 9379/9171 BUFFERED LINE PRINTER.
- 851181 92 MTE-2 MAGNETIC TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUT PUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL (92 PROC DECK, 850877). SIZE 1800 DECIMAL. CONFIGURATION: XDS 92 COMPUTER AND A 6-BIT I/O CHANNEL, A TYPEWRITER CONNECTED TO THE W BUFFER, AND A MTE-2 MAGNETIC TAPE TRANSPORT, UNIT 0, CONNECTED TO THE W BUFFER.
- 851182 92 SCOPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO AID IN SCOPE MAINTENANCE AND VERIFICATION OF SCOPE OPERATION. THE PROGRAM INCLUDES TESTS FOR ALL OPTIONAL SCOPE FEATURES.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 WITH PAPER TAPE, TYPEWRITER, 248BIT PIN/POT EXTENDER AND MODEL 9185 OSCILLOSCOPE DISPLAY SYSTEM.
- 851184 92 92 RAD ANALYTIC DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 4037 DECIMAL. CONFIGURATION: AN XDS MODEL 92 COMPUTER WITH A TYPEWRITER (NUMBER 1) ATTACHED AND ONE OR MORE RAD UNITS USING INTERLACE AND 12 BIT EXTENDER.
- 851185 92 TEST PROGRAM FOR DISC FILE 9367-A
AUTHOR: XEROX
ABSTRACT:
TO AID IN THE DEVELOPMENT AND CHECKOUT OF DISC FILE MODEL 9367-A.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. CONFIGURATION: XDS 92 COMPUTER, 8K MEMORY, 12 BIT CHARACTER OPTION ON I/O CHANNEL. DISC FILE SYSTEM MODEL 9367-A ATTACHED TO I/O CHANNEL (UNIT 26). DISC FILE UNIT MUST BE UNIT 0.

- 851186 92 POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY PROPER OPERATION OF THE POWER FAIL-SAFE OPTION.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE: 983 DECIMAL. CONFIGURATION: ANY XDS 92 WITH POWER FAIL-SAFE AND PAPER TAPE READER.
- 851187 92 REAL TIME CLOCK TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY PROPER OPERATION OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: 92 SYMBOL. SIZE 1664 DECIMAL. CONFIGURATION: ANY XDS 92 WITH REAL TIME CLOCK AND PAPER TAPE READER.
- 851580 930 INTER-COMPUTER COUPLER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 930 COMPUTERS.
COMMENTS:
THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO BE TRANSFERRED.
- 851584 9-SERIES ACCEPTANCE PROG. FOR DATA COMMUNICATION
AUTHOR: XEROX
ABSTRACT:
PROVIDES A MEANS OF TESTING THE OPERATION OF XDS DATA COMMUNICATIONS EQUIPMENT.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL CONFIGURATION: ANY 900 SERIES COMPUTER WITH DATA COMMUNICATIONS EQUIPMENT.
- 851585 9-SERIES COMMUNICATION BUFFER CHECKOUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
COMPUTER CONFIGURATION: ANY XDS 900 SERIES COMPUTER WITH COMMUNICATIONS BUFFER, 4K MEMORY AND ONE OR MORE TELETYPE UNITS OPERATING IN 5 LEVEL OR 8 LEVEL CODE.
COMMENTS:
SOURCE LANGUAGE: SYMBOL/META-SYMBOL
- 851615 930 DIGITAL I/O TEST FOR GD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE DIGITAL I/O SUBSYSTEM OF THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER, 12 'POT' CHANNELS, 12 'PIN' CHANNELS, 128 'SKS' CHANNELS, 220 'EOM' CHANNELS HEWLETT PACKARD 101A OSCILLATOR, SPECIAL XDS 24-BIT TEST REGISTER. THE HP 101A OSCILLATOR IS CONNECTED THROUGH THE SPECIAL SYSTEMS LOGIC TO INTERRUPTS 204-210 (OCTAL).
- 851616 930 ANALOG/DSC-II TEST FOR GD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE OPERATION OF THE ANALOG/DSC-II SUBSYSTEM WITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER WITH DSC-II'S CONNECTED TO THE W AND X CHANNELS OF THE DMC, A 128 CHANNEL MULTIPLEXER AND A 15 BIT ADC. THE DSC-II'S ACCESS THE UPPER 8K OF THE 16K MEMORY. INTERRUPTS 200, 203 AND 211 (OCTAL) ARE USED BY THE MULTIPLEXER/DSC-II'S.
- 851617 930 ANALOG ACCURACY TEST FOR GD/C ATS
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM WILL TEST THE ACCURACY OF THE EIGHTDAC CHANNELS AND THE 128 MULTIPLEXER CHANNELS WITHIN THE GENERAL DYNAMICS/CONVAIR AUTOMATIC TEST SET SYSTEM.
COMMENTS:
HARDWARE CONFIGURATION: 930 COMPUTER, KEYBOARD/PRINTER ON THE TMCC W CHANNEL, DSC II ON THE DMC X CHANNEL.
- 851618 910 ANALOG TEST FOR O.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES OPEN END AND CLOSED LOOP TESTS FOR ANALOG TO DIGITAL INPUTS. STATISTICAL TABULATIONS ARE MADE ON RESULTS OF MASS READINGS.

851618 CONTINUED ON FOLLOWING PAGE

- 851618 ANALOG TEST FOR G.D./CONVAIR (CONTINUED)
COMMENTS:
HARDWARE REQUIREMENTS: XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR. 8K OF MEMORY, TTY,
AND ANALOG FRONT END.
- 851619 910 SAMPLE AND HOLD TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES AN OPEN END TEST FOR SAMPLE AND HOLD ANALOG TO DIGITAL CHANNELS. VOLTAGES ARE INPUT
THROUGH THESE CHANNELS TO XDS 910 COMPUTER. SAMPLE AND HOLD VALUES OF A SINGLE INPUT ARE COMPARED FOR
ACCURACY.
COMMENTS:
HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR GENERAL DYNAMICS/CONVAIR. 5 CHANNELS OF SAMPLE
AND HOLD ADC'S.
- 851620 910 SPECIAL ACCEPTANCE TEST FOR G.D./CONVAIR
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM GIVES A DEMONSTRATION FOR THE VARIOUS FEATURES OF THE GENERAL DYNAMICS/CONVAIR 910 COMPUTER
SYSTEM.
COMMENTS:
HARDWARE REQUIREMENTS= XDS 910 COMPUTER CONFIGURATION FOR G.D.
DEMONSTRATES D/A, A/D, SYSTEM POT/PIN, SYSTEM EOH'S, SYSTEM SKS'S, AND SPECIAL REAL-TIME CLOCK.
- 851623 9-SERIES 900 PAPER TAPE PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM PROVIDES A TEST WITH VARIABLE START-STOP DELAY WHICH SIMULATES CONDITIONS ENCOUNTERED WHEN
PUNCHING OBJECT PROGRAMS UNDER FORTRAN OR META-SYMBOL.
COMMENTS:
THE PROGRAM REQUIRES APPROXIMATELY 192 DECIMAL LOCATIONS (0130 THRU 0435). THE PROGRAM CAN BE USED IN
ANY 900 SERIES COMPUTER WITH PAPER TAPE READER AND PUNCH ON THE W-BUFFER. THE PROGRAM PUNCHES OUT 84
DECIMAL CHARACTER GROUPS ARRANGED IN BLOCKS WITHOUT GAP. EACH GROUP CONSISTS OF AN ASCENDING BINARY
SEQUENCE ARRANGED FROM 00 TO 77 OCTAL.
- 860007 9300 7/8 LEVEL READER/PUNCH TEST
AUTHOR: XEROX
ABSTRACT:
VERIFIES THE CAPABILITIES OF THE READER AND PUNCH MECHANISMS AND ELECTRONICS. IT WILL OPERATE BOTH
READER AND PUNCH AT THEIR MAXIMUM SPEED. INTERLACE IS NOT USED.
COMMENTS:
REQUIRES AN XDS 9300 COMPUTER WITH A MINIMUM OF 2K OF MEMORY, KEYBOARD PRINTER, AND A MODEL 9333 7-OR
8-LEVEL PAPER TAPE READER OR PUNCH CONNECTED AS UNIT NUMBER 1 OR 2 TO CHANNEL A.
- 860661 9300 EXAMINER DIAGNOSTIC (COVER)
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
SEE MANUAL NO. 900624: FOR THE COMPUTER CONFIGURATION.
- 860662 9300 VERIFIER AND SEMI-AUTOMATIC DIAGNOSTIC
AUTHOR: XEROX
COMMENTS:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. THIS PROGRAM IS PART
OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.
- 860663 9300 MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR COMPUTER CONFIGURATION.
- 860664 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG 860661, SEE THIS CATALOG NUMBER FOR THE COMPUTER CONFIGURATION.

- 860685 9300 P AND S REGISTER TESTER
AUTHOR: XEROX
ABSTRACT:
SEE MANUAL NO. 900624: 9300 COMPUTER EXAMINER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
COMMENTS:
THIS PROGRAM IS PART OF CATALOG NUMBER 860661. SEE THIS CATALOG NO. FOR THE COMPUTER CONFIGURATION.
- 860686 9300 SEMI-AUTOMATIC TYPEWRITER TEST (SATT)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF EXERCISING AND CHECKING KEYBOARD INPUT AND PRINTER OUTPUT CAPABILITIES OF THE TYPEWRITER WHEN USED IN THE ON-LINE MODE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 267 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER.
- 860687 9300 INTERRUPT EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS EXERCISER WILL EXECUTE THE 9300 AUTOMATIC INSTRUCTION DIAGNOSTIC (DOC), CATALOG NO. 860664, IN AN INTERRUPT ENVIRONMENT. A SPECIAL PURPOSE DIAGNOSTIC MAY BE SUBSTITUTED FOR DOC.
COMMENTS:
SOURCE LANGUAGE: SYMBOL. SIZE: 151 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH INTERLACE, BUFFERED PRINTER 1, CHANNEL A, AND AT LEAST 8K MEMORY.
- 860696 9300 BIG MEMORY DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO VERIFY SUCCESSFUL OPERATION OF MEMORY, OR TO DETECT AND DIAGNOSE ERRORS PRODUCED BY PROGRAM GENERATED MEMORY PATTERNS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL WORDS. COMPUTER CONFIGURATION: 20K CORE MINIMUM AND PAPER TAPE OR CARD READER.
- 860718 9300 EXTENDED MODE I/O TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST AS MANY OF THE EXTENDED I/O OPERATIONS AS POSSIBLE WITH PAPER TAPE. GIVEN A COMMUNICATION CHANNEL THAT IS KNOWN TO BE GOOD THEN THE PROGRAM SERVES AS A PAPER TAPE TESTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 843 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH A TYPEWRITER ATTACHED TO THE A CHANNEL AND A PAPER TAPE PUNCH AND READER ON ANY INTERLACED COMMUNICATION CHANNEL. THE A CHANNEL NEED NOT BE INTERLACED FOR THE TYPEWRITER.
- 860719 9300 PHOTO-READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATIONAL CHARACTERISTICS OF A PAPER TAPE PHOTOREADER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 455 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH PAPER TAPE PHOTOREADER.
- 860727 9300 CARD READER TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE XDS 9151, 9152 OR 9153 CARD READER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 811 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A AND XDS MODEL 9151, 9152 OR 9153 CARD READER ATTACHED TO A THCC OR DACC. EXTENDED MODE INTERLACE IS USED FOR CARD READER.
- 860729 9300 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 808 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 COMPUTER WITH MODEL 9157 CARD PUNCH COUPLER SYSTEM ATTACHED TO ANY CHANNEL.
- 860730 9300 9158 CARD PUNCH TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF TESTING THE CARD PUNCH. SOURCE LANGUAGE: META-SYMBOL. SIZE: 317 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH MODEL 9158 CARD PUNCH COUPLER SYSTEM MAY BE USED ON CHANNELS A-M.

- 860738 9300 EXTENDED MODE MULTI MAG TAPE EXERCISOR
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 64 MAGNETIC TAPES ON CHANNELS A THRU H. THE EXERCISE OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FOUR FUNCTION CODES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1978 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 SYSTEM WITH 1 TO 64 TAPE UNITS ATTACHED TO INTERLACED CHANNELS A THRU H. THE TYPEWRITER ON CHANNEL A(W) IS USED FOR CONTROL.
- 860739 9300 MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MAGNETIC TAPE UNITS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1959 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER ATTACHED TO CHANNEL A AND ONE OR MORE MAGNETIC TAPE UNITS ATTACHED TO ANY CHANNEL USING INTERLACE AND EXTENDED MODE.
- 860744 9300 DATA MULTIPLEX CHANNEL TEST
AUTHOR: XEROX
ABSTRACT:
TO TEST THE OPERATION OF DSC I WITH AND WITHOUT INTERRUPTS.
COMMENTS:
ANY 9300 WITH A DATA MULTIPLEX UNIT AND DATA SUB CHANNEL HAVING A PAPER TAPE PUNCH AND A PHOTO READER ATTACHED. A TYPEWRITER AND PHOTO READER OR BINARY CARD READER ARE REQUIRED ON CHANNEL A (ZERO).
- 860745 9300 DACC DIAGNOSTIC TEST FOR 9300
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DACC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1977 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, DACC, JX35 TESTER.
- 860746 9300 THCC DIAGNOSTIC TEST FOR 9300
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A THCC DIAGNOSTIC TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1878 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300, THCC, JX35 TESTER.
- 860747 9300 DSC-I DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THIS PROGRAM IS TO MAKE AVAILABLE A DMC/DSC-II TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1856 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A TYPEWRITER AND JX35 TESTER.
- 860748 9300 DSC-II DIAGNOSTIC TEST
AUTHOR: XEROX
ABSTRACT:
TEST INDEPENDENT OF A PERIPHERAL DEVICE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1463 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH TYPEWRITER AND JX35 TESTER.
- 860753 9300 PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9174 AND 9179 BUFFERED LINE PRINTERS ON A XDS 9300. THE PROGRAM OPERATES IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY THCC OR DACC.
COMMENTS:
SIZE: 868 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN ATTACHED 9174 OR 9179 BUFFERED LINE PRINTER(S).

- 860754 9300 9379/9171 BUFFERED LINE PRINTER DIAO
AUTHOR: XEROX
ABSTRACT:
PROVIDE A COMPREHENSIVE TEST OF THE BUFFERED LINE PRINTER BY GENERATING SPECIFIED CHARACTER PATTERNS AND TESTING THE RESPONSE OF THE PRINTER TO NORMAL COMMANDS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1275 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A BUFFERED LINE PRINTER AND A TYPEWRITER CONNECTED TO CHANNEL A.
- 860755 9300 MODEL 9372 UNBUFFERED LINE PRINTER TEST
AUTHOR: XEROX
ABSTRACT:
PROVIDE A TEST OF THE MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER CONNECTED TO CHANNEL A.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1560 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9372 LINE PRINTER CONNECTED TO ANY CHANNEL WITH INTERLACE, AND A TYPEWRITER CONNECTED TO CHANNEL A.
- 860757 9300 PLOTTER TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS MODEL 9175-76 INCREMENTAL PLOTTER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 261 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9175-76 INCREMENTAL PLOTTER ON ANY TMCC.
- 860758 9300 MEMORY LOCK-OUT AND POWER FAIL-SAFE TEST
AUTHOR: XEROX
ABSTRACT:
TO VERIFY THE OPERATION OF THE MEMORY LOCK-OUT/POWER FAIL-SAFE OPTIONS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 297 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MEMORY LOCK-OUT (MANUAL OR PROGRAM CONTROLLER)/POWER FAIL-SAFE.
- 860759 9300 SPECIAL PRIORITY INTERRUPT TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A CHECK FOR PROPER OPERATION OF OPTIONAL INTERRUPTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 284 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A, OPTIONAL INTERRUPTS, AND SPECIAL HARDWARE TO ALLOW INTERNAL INITIATION OF OPTIONAL INTERRUPTS.
- 860760 9300 SPECIAL TYPEWRITER TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
TO TEST THE I/O TYPEWRITER FOR PROPER INPUT-OUTPUT. THE ROUTINE PERFORMS THIS FUNCTION WITHOUT USING INTERLACE OR INTERRUPTS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 90 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AN I/O TYPEWRITER.
- 860761 9300 SPECIAL PAPER TAPE PUNCH-READ TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE AN ACCEPTANCE TEST FOR THE XDS 92340 PAPER TAPE UNIT
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 190 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH TYPEWRITER ON CHANNEL A AND AN XDS 92340 PAPER TAPE UNIT (MODIFIED FOR SEVEN UNIT).
- 860762 9300 CATHODE RAYTUBE DISPLAY SYSTEM TEST
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A MEANS OF CHECKING OUT AND ADJUSTING THE DISPLAY COUPLER AND DISPLAY UNIT ALONG WITH ANY OF THE OPTIONAL DEVICES, SUCH AS VECTOR GENERATOR, CHARACTER GENERATOR, OR LIGHT GUN.
COMMENTS:
SIZE: 4095 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A MODEL 9185-01 DISPLAY COUPLER AND A DISPLAY UNIT USING THE FOLLOWING CHANNEL CONFIGURATION. XDS 9300: TMCC WITH 24-BIT CHARACTER SIZE OPTION OR ANY DACC OR PIN-POT CONNECTOR.

- 860763 9300 DES-1 DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST DES-1 CONSOLE AND EIGHT D/A CONVERTERS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 516 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY DES-1 9300 COMPUTER.
- 860764 9300 MTE-3 MAG TAPE EXERCISER, 4 CHAR. MODE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM IS DESIGNED TO EXERCISE THE MAGNETIC TAPE UNIT BY FIRST WRITING RECORDS OF RANDOM NUMBERS AND THEN READING THESE RECORDS BACK AND COMPARING THEM WITH THE NUMBERS WRITTEN. AN ATTEMPT IS MADE TO TABULATE AND OUTPUT ALL USEFUL INFORMATION CONCERNING THE ERRORS MADE, IF ANY, AND THE NUMBER OF PASSES OVER THE TAPE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 12643 DECIMAL WORDS. COMPUTER CONFIGURATION: XDS 9300 WITH A 24-BIT EXTENDED A BUFFER TELETYPE TYPEWRITER CONNECTED TO THE A BUFFER, AND A MTE-3 MAGNETIC TAPE TRANSPORT CONNECTED TO EITHER CHANNEL A, B, C OR D.
- 860765 9300 9267 DISC FILE DIAGNOSTIC-(DFD)
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF 9267 RAD DISC.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3510 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH INTERLACE, EXTENDED MODE, TYPEWRITER (NUMBER 1, A-CHANNEL), AND ONE OR MORE MODEL 9267 RAD,S.
- 860766 9300 CFE-1 DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO DISCOVER AND INDICATE CFE-1 FAILURES.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 1325 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 1-4 MEMORY BANKS TOTALING UP TO 32K, CARD OR PAPER TAPE READER, AND CFE-1. (IN ADDITION A TYPEWRITER 1 ON CHANNEL A IS HIGHLY ADVISED.
- 860767 9300 RAD APOCALYPTIC DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
TO PROVIDE A COMPREHENSIVE DIAGNOSTIC FOR CHECKOUT AND TESTING OF RADS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3707 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A TYPEWRITER (NO. 1) ATTACHED TO CHANNEL A AND ONE OR MORE RADS ATTACHED TO ANY CHANNEL USING INTERLACE.
- 860768 9300 DPD TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM IS DESIGNED FOR INITIAL DISC CHECKOUT, FIELD MAINTENANCE, AND TO PERFORM DURATION TESTING FOR ACCEPTANCE PURPOSE
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3700 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH XDS MODEL 9164-01/ 9164-02 DISC FILE CONTROLLER ATTACHED TO 1 OR 2 I/O CHANNELS A-H. THE TYPEWRITER IS USED FOR PROGRAM CONTROL AND MUST BE CONNECTED TO CHANNEL A.
- 860769 9300 INTERRUPT ARM-DISARM FEATURE TEST PROGRA
AUTHOR: XEROX
ABSTRACT:
TO CHECK OUT, THOROUGHLY, THE OPERATION OF ARM-DISARM FEATURE.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 3000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY 9300 WITH TYPEWRITER, 1 TO 896 CHANNELS OF SYSTEM INTERRUPTS AND THE ARM-DISARM FEATURE. ALSO REQUIRED TO PERFORM THE TEST IS SPECIAL MODULE CARD = 109745. WHEN THIS CARD,S INPUT IS CONNECTED TO COMPUTER SIGNAL RT1, ANY PIN COMMAND SHOULD SET ALL ARMED INTERRUPTS.
- 860770 9300 CECIS SPECIAL ACCEPTANCE TEST
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE PERFORMANCE OF SPECIAL PARTS OF THE SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 778 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR CECIS SECT SYSTEM.

- 860771 9300 REAL TIME CLOCK TEST ROUTINE
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM DEMONSTRATES ACCEPTABLE PERFORMANCE OF THE REAL TIME CLOCK.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 367 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH A PAPER TAPE READER OR CARD READER, A TYPEWRITER ATTACHED TO CHANNEL A, AND A 91880 REAL TIME CLOCK.
- 860773 9300 SPECIAL ACCEPT. TESTS FOR NORTH AMERICAN
AUTHOR: XEROX
ABSTRACT:
THE PURPOSE OF THESE PROGRAMS IS TO DEMONSTRATE THE REAL TIME SIMULATION SYSTEM CONFORMANCE TO REQUIREMENTS OF NAA PROCUREMENT SPECIFICATION MC 470-0080
COMMENTS:
SIZE: 2926 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 FOR NAA REAL TIME SIMULATION SYSTEM.
- 860776 9300 STANDARD ANALOG TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO CALIBRATE AND TEST ANALOG I/O EQUIPMENT.
COMMENTS:
SIZE: 12288 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH ASSOCIATED ANALOG I/O EQUIPMENT.
- 860777 9300 BOEING RANDOM NUM. GEN. TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE RANDOM NUMBER GENERATOR AND MEMORY INCREMENT HARDWARE IN SIX WAYS. 1.) SINGLE-WORD RANDOM NUMBER MODE. 2) MEMORY INCREMENT MODE 3) RANDOM NUMBER BLOCK MODE 4) TIMING OF RANDOM NUMBER BLOCK MODE 5) TIMING OF MEMORY INCREMENT MODE 6) REGISTER TEST SOURCE LANGUAGE: META-SYMBOL.
SIZE: 6098 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, DSC-11, INTERLACED A CHANNEL, PAPER TAPE READER, TYPEWRITER, SPECIAL HARDWARE.
- 860778 9300 BOEING FAULT TREE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS THE BOEING FAULT TREE SYSTEM EOM'S AND SKS LINES. THERE ARE FOUR MAJOR PARTS TO THE PROGRAM: 1) CHECK ALL EOM FLIP FLOPS (FF,S) EXCEPT THE 7 TRIGGER FF,S USING ONE EOM CONNECTOR FOR OUTPUT. 2) CHECK ALL SKS INPUTS (EXCEPT THE INDIRECT SENSORS) USING ONE EOM CONNECTOR FOR OUTPUT. 3) CHECK THE 7 TRIGGER FF. 4) CHECK THE 20 INDIRECT SENSORS.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 2322 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, PAPER TAPE READER, INTERLACED A CHANNEL, TYPEWRITER, 4K MEMORY, SPECIAL HARDWARE.
- 860783 9300 ACCEPT TEST PROG FOR UCLA BRAIN RESEARCH
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE THE CAPABILITIES OF THE UCLA BRAIN RESEARCH SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 20000 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MAG TAPE, PAPER TAPE, TYPEWRITER, PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.
- 860787 9300 9-TRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO TEST THE 9-TRACK MAGNETIC TAPE UNIT AND ITS COUPLER.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 12625 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH AT LEAST 8,192 WORDS OF MEMORY, PAPER TAPE OR CARD READER AND TYPEWRITER ON CHANNEL A, AND 9-TRACK MAGNETIC TAPE UNIT (MODEL NO.92469) WITH COUPLER (MODEL NO.92489) CONNECTED VIA A TMCC OR DACC WITH INTERLACE.
- 860788 9300 DOUGLAS MOL SYS. CHECK OUT PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC,SAM,CIU, ETC).
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 850 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300, 32K MEMORY.
- 860789 9300 GENERAL ELECTRIC MOL SYS. CHECK OUT PROG
AUTHOR: XEROX
ABSTRACT:
TO DEMONSTRATE FUNCTIONS OF THE SYSTEM HARDWARE (MIC,SAM,CIU,ET C).
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 849 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH 32K MEMORY.

- 860790 9300 ACCEPT TEST PROG.FOR NASA HOUSTON LEM
AUTHOR: XEROX
ABSTRACT:
TO CHECKOUT ANALOG I/O EQUIPMENT FOR NASA-MSC SYSTEM.
COMMENTS:
SOURCE LANGUAGE: META-SYMBOL. SIZE: 8143 DECIMAL WORDS. COMPUTER CONFIGURATION: ANY XDS 9300 WITH MIC, MAM, TWO MAG TAPES, CARD READER, PAPER TAPE I/O, TYPEWRITER, LINE PRINTER, AND ASSOCIATED ANALOG I/O EQUIPMENT.
- 860792 9300 9379 PRINTER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
A SELF LOADING PROGRAM TO PERMIT VERIFICATION OF THE 9379 BUFFERED LINE PRINTER ON AN XDS 9300 COMPUTER. THE PROGRAM OUTPUTS IN EXTENDED MODE INTERLACE WITH IORD AND IOSD TERMINATION CODES. INTERRUPTS ARE NOT USED. THE PRINTER MAY BE UNIT 1 OR 2 CONNECTED TO ANY TMCC OR DACC.
COMMENTS:
SIZE: 768 DECIMAL. CONFIGURATION: ANY XDS 9300 COMPUTER WITH AN ATTACHED 9379 BUFFERED LINE PRINTER(S).
- 860793 9300 STRACK MAGNETIC TAPE TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
PURPOSE: TO PROVIDE A COMPREHENSIVE MEANS FOR INITIAL CHECKOUT AND TESTING OF MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER MODEL 95489 9 TRACK MAGNETIC TAPE SYSTEM
- 860794 9300 9TK EXTEND MODE MULTI-MAG TAPE EXERCISER
AUTHOR: XEROX
ABSTRACT:
PURPOSE: THE PROGRAM IS DESIGNED TO EXERCISE 1 TO 8 MAGNETIC TAPES ON CHANNELS A THROUGH H. (1 TAPE PER CHANNEL) THE EXERCISER OPERATES UNDER INTERRUPT CONTROL IN THE EXTENDED MODE USING ALL FUNCTION CODES, SKS'S AND EOMS ASSOCIATED WITH THE CHANNEL AND MAGNETIC TAPE.
COMMENTS:
MINIMUM SYSTEM CONFIGURATION: 8K MEMORY KEYBOARD/PRINTER CARD READER OR PAPER TAPE READER 1 TO 8 MODEL 95489 9TRACK MAGNETIC TAPE SYSTEMS
- 860795 9300 NASA EDWARDS INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
INTERFACE TEST PROGRAM FOR THE NASA EDWARDS XDS 9300 HYBRID SYSTEM.
COMMENTS:
THE MINIMUM COMPUTER CONFIGURATION REQUIRED FOR OPERATION OF THE NASA EDWARDS INTERFACE TEST PROGRAM MUST INCLUDE THE FOLLOWING: 16K XDS 9300, MIC, MAM, CARDREADER, TYPEWRITER, LINE PRINTER, JBE-34/35 DATA CHANNELS, AND ASSOCIATED ANALOG I/O EQUIPMENT. THIS PROGRAM INCLUDES TWELVE MODES FOR ANALOG INTERFACE TESTING. THESE MODES ARE MODIFICATIONS TO CATALOG #6990048, XDS 9300 STANDARD ANALOG TEST PROGRAM. NINE OTHER MODES ARE INCLUDED TO TEST OTHER I/O FUNCTIONS.
- 860797 9300 NORTH AMERICAN HYBRID INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
THIS IS A DIAGNOSTIC PROGRAM TO CALIBRATE AND TEST THE ANALOG AND DIGITAL INTERFACE EQUIPMENT FOR THE NAA HYBRID SYSTEM
COMMENTS:
MINIMUM CONFIGURATION IS 24K 9300, CARD READER, TELETYPE, AND SPECIAL SYSTEM INTERFACE HARDWARE (AS DESIGNED FOR THE NAA HYBRID SYSTEM
- 860800 9300 INTER-COMPUTER COUPLER TEST
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM EXERCISES THE CCE-25 INTER-COMPUTER COUPLER WHEN IT IS CONNECTED BETWEEN TWO 9300 COMPUTERS.
COMMENTS:
THE PROGRAM ALLOWS THE USER TO SPECIFY THE NUMBER OF CHARACTERS PER WORD, THE TMCC TO BE USED, THE SEND INTERRUPT MEMORY LOCATION TO BE USED, THE RECEIVE INTERRUPT MEMORY LOCATION TO BE USED AND THE DATA TO BE TRANSFERRED.
- 861078 9300 USNPOS HYBRID INTERFACE TEST
AUTHOR: XEROX
ABSTRACT:
THE USNPOS HYBRID INTERFACE TEST PROGRAM IS DESIGNED TO CALIBRATE AND TEST THE HYBRID INTERFACE EQUIPMENT.
COMMENTS:
THE USNPOS HYBRID SYSTEM CONSISTS OF AN XDS 9300 DIGITAL COMPUTER INTERFACED WITH A CI 5000 ANALOG COMPUTER. THE INTERFACE TEST PROGRAM INCLUDES CLOSED LOOP STATISTICAL COMPUTATIONS FOR TESTING A-D, D-A CONVERTERS, TESTS FOR INTERRUPT PROCESSING, MODE CONTROL, LOGIC LINE CONTROL, DVM READOUT, POT SETTING, AND REAL-TIME CLOCK CONTROL. THE INTERFACE TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS WHICH CAN BE FILLED INTO MEMORY BY USING THE ONE OR TWO CARD BINARY LOADER.

- 861077 9300 USNPGS DISPLAY TEST PROGRAM
AUTHOR: XEROX
ABSTRACT:
THE USNPGS DISPLAY TEST PROGRAM PROVIDES FOR OPERATOR SELECTION OF TEST PATTERNS AND DISPLAY FUNCTIONS FOR TESTING, ADJUSTING, AND DEMONSTRATING THE TWO TASKER DISPLAYS AND DISPLAY INTERFACE HARDWARE.
COMMENTS:
THE DISPLAY TEST IS A STAND-ALONE PROGRAM AVAILABLE ON BINARY CARDS. IT CAN BE LOADED BY USE OF THE STANDARD FILL PROCEDURE WITH THE ONE OR TWO CARD BINARY PROGRAM LOADER. THE DISPLAY TEST PROGRAM PROVIDES FOR TRANSMISSION OF 17 DIFFERENT TEST PATTERNS, AN END OF TRANSMISSION INTERRUPT TESTS CHARACTER AND VECTOR RASTER GENERATION, LIGHT PEN USAGE, SCOPE KEYBOARD INPUT, AND FUNCTION PANEL INPUT.
- 870000 940 EXAMINER DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THE 940 COMPUTER DIAGNOSTIC SYSTEM USES THE SAME TECHNIQUES AS THE 930 COMPUTER EXAMINER WHEREVER POSSIBLE, AND IT ENABLES AN OPERATOR TO EXERCISE AND DIAGNOSE THAT PORTION OF CORE MEMORY NOT REACHED BY THE 930 EXAMINER AND ALL FEATURES OF THE 940 MAIN-FRAME LOGIC NOT COMMON TO THE 930.
COMMENTS:
THIS PROGRAM INCLUDES: 860001, 860002, 860003, 860004, MEMORY ACCESS, MEMORY DIAGNOSTIC, INSTRUCTION DIAGNOSTIC AND INTERRUPT DIAGNOSTIC PROGRAMS. SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL. SIZE: 16384 DECIMAL.
- 870001 940 MEMORY ACCESS DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND ISOLATE PROBLEMS IN THE MEMORY RELABELING LOGIC.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870002 940 MEMORY DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO EXERCISE MEMORY WITH A CHECKERBOARD WORD PATTERN. MONITOR MEMORY FOR ERRORS, AND AID IN DIAGNOSING MEMORY FAILURE.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870003 940 INSTRUCTION DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO AID IN DETERMINING AND ISOLATING FAULTS IN THE 940 INSTRUCTION LOGIC.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870004 940 INTERRUPT DIAGNOSTIC PROGRAM
AUTHOR: XEROX
ABSTRACT:
TO DETECT AND ISOLATE PROBLEMS IN THE 940 INTERRUPT LOGIC.
COMMENTS:
SIZE: 16384 DECIMAL. THIS PROGRAM IS PART OF MODEL NO. 870000 XDS 940 EXAMINER DIAGNOSTIC SYSTEM (COVER). SEE MANUAL 900634, XDS 940 COMPUTER DIAGNOSTIC SYSTEM TECHNICAL MANUAL.
- 870006 940 MEMORY ADDRESS TEST
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM PERFORMS MEMORY ACCESSES AND CHECKS FROM THE CPU TO THE MEMORY OF A 940 COMPUTER. THE ACCESSES ARE MADE THROUGH RELABELING BYTES R0 - R7 AND M6 - M7. IN ADDITION LOCATIONS 4000 - 17777 OCTAL ARE ACCESSED DIRECTLY. READ ONLY AND OUT OF BOUNDS TRAPS ARE CHECKED THROUGH ALL RELABELING BYTES.
COMMENTS:
THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH 48K OR 64K MEMORY WORDS AND EITHER PAPER TAPE OR CARD READER FACILITIES. THE PROGRAM REQUIRES THAT THE 940 INSTRUCTION DIAGNOSTIC OPERATES CORRECTLY. CONTROL OF THE PROGRAM IS THROUGH THE CONTROL CONSOLE.
- 870007 940 940 DISC EXERCISER DIAGNOSTIC
AUTHOR: XEROX
ABSTRACT:
THE PROGRAM EXERCISES THE DISC UNIT ON A RANDOM BASIS WITHIN THE AREA OF DISC AND CORE SPECIFIED BY THE USER. THE TEST ISSUES A SET OF DISC I/O COMMANDS WHICH ARE IN A SEEK AND WRITE SEEK AND SEEK AND READ SEQUENCE. THE DUMMY SEEK IS INSERTED TO MAXIMIZE THE ARM POSITIONING FUNCTION. THE TEST HAS A SEEK/SEARCH RECOVERY THAT MOVES THE ARM TO THE ADJACENT TRACK BEFORE ATTEMPTING TO RECOVER. TWO CONSECUTIVE SEEK/SEARCH ERROR ON THE SAME DISC ADDRESS IS DEFINED TO BE A NON-RECOVERABLE ERROR.
COMMENTS:
THE PROGRAM WILL OPERATE ON ANY 940 COMPUTER WITH A CARD READER OR PAPER TAPE READER.

870008 940 940 RAD DIAGNOSTIC EXERCISER
AUTHOR: XEROX
ABSTRACT:
THIS PROGRAM TESTS RAD CAPABILITY. RANDOM CONFIGURATIONS OF DATA AND FUNCTIONS ARE GENERATED. ERROR OUTPUTS ARE LISTED ON THE CONSOLE TYPRITER. CONTROL PARAMETERS ARE ALSO VARIABLE. A DETAILED ABSTRACT IS PRINTED AT LOAD TIME. THE PROGRAM IS TOTALLY INDEPENDENT INCLUDING FILL.
COMMENTS:
TWO BUFFER AREAS ARE USED FOR INPUT AND OUTPUT TO THE RAD. BOTH BUFFERS ARE SETUP BEFORE THE RAD IS DRIVEN. THIS NECESSARY TO CHECK THE 'EARLY WORD' INTERRUPT OPTION. ALL ERROR MESSAGE AND PARAMETER OPTIONS ARE TRANSMITTED TO THE CONSOLE TYPRITER READ DATA IS CHECKED AGAINST A KNOWN PATTERN. THE ENTIRE SELECTED RAD AREA IS INITIALIZED WITH CONSTANT DATA. CONTROL THEN RANDOMLY SELECTS A RAD STARTING ADDRESS, BLOCKS SIZE, AND READ OR WRITE OPTION. THE MAXIMUM BLOCK SIZE WHICH CAN BE HANDLED IS 12K WORDS. THIS IS EQUAL TO THREE RAD BANDS. BREAKPOINT CONTROL IS DISCUSSED UNDER METHODS. PROGRAM IS LOADED USING THE ONE CARD LOADER, CATALOG NUMBER 850848.

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

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

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

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

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

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

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

870036 940 UNIT 12 E CHANNEL RAD TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A TEST FOR THE 9387 RAD ADDRESS 28,68 ON E CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR

PROGRAM AVAILABILITY LIST

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- 870037 940 UNIT 15 W CHANNEL RAD TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9317 RAD ADDRESS 26.66 ON W CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR
- 870038 940 UNIT 21 W CHANNEL DISC TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNIT RUNS A DIAGNOSTIC ON THE 9184 DISC ON W CHANNEL
COMMENTS:
THIS UNIT MUST BE RUN WITH THE OLDS 3.0 CONTROL MONITOR
- 870039 940 UNIT 23 CTE 10/11 COM GEAR TEST 3.0
AUTHOR: XEROX
ABSTRACT:
THIS UNITS RUNS A DIAGNOSTIC ON THE 84 CHANNELS OF THE CTE 10/11 ASYNCHRONOUS TELEPHONE INTERFACE
EQUIPMENT
COMMENTS:
THIS UNIT MU BE RUN WITH THE OLDS 3.0 CONTROL MONITOR
- 870040 940 UNIT 18 E CHANNEL DISC
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS THE 940 DISC FILE CONNECTED TO CHANNEL E. IT IS SIMILAR TO UNIT 21 FOR THE 9184 DISC
FILE
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR
- 870041 940 UNIT 19 F CHANNEL DISC
AUTHOR: XEROX
ABSTRACT:
THIS UNIT TESTS THE DISC CONNECTED TO CHANNEL E IT IS SIMILAR TO UNIT 21 FOR THE 9184 DISC
COMMENTS:
THIS PROGRAM MUST BE RUN WITH THE OLDS CONTROL MONITOR
- 870042 940 940 OLDS DIAGNOSTIC SYSTEM (COVER)
AUTHOR: XEROX
ABSTRACT:
THIS DIAGNOSTIC ANALYZES AND EXERCISES THE 940 TIME-SHARING SYSTEM.
COMMENTS:
THIS SYSTEM TAPE INCLUDES THE PROGRAMS LISTED UNDER CATALOG NUMBERS: 870029 THRU 870040