HEWLETT PACKARD

2000 BASIC CONTRIBUTED LIBRARY HANDBOOK

ADDENDUM TO VOLUMES I, II, III, IV

MAY 1975

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INTRODUCTION

This addendum to the HP BASIC Contributed Library includes documentation for all new and revised programs since the reprint of June 1974. There are 30 new packages and 18 revisions to existing library programs.

Please replace existing documentation with revised documentation and add the new documentation to each of your volumes.

INDEXES

Two indexes to the complete BASIC Library are also included:

Alphabetical Index
Cross Reference Index

The page describing Revised Programs should be helpful in updating your library software and documentation.

How to Order This Addendum

Contact your local HP sales office to order this addendum:

HP 36000-92001	2000 BASIC Contributed Library Handbook Addendum

How to Order Library Software

All of the programs (New & Revised documented in this addendum and which operate on the 2000 Series System are available on the single magnetic tape, part number HP 36600A-10001 or 36600A-11001, priced at $133. This Mag tape contains all of the software for the entire library, volumes 1-5 and this addendum. The programs for this addendum is stored in account Z906 and C906.

DIRECT MAIL

Customers in the U.S. are encouraged to order Contributed Library software and manuals via Direct Mail by sending check or money order to Hewlett-Packard Co., Mail Order Department, P.O. Drawer #20, Mountain View, Ca. 94043. Direct Mail Orders must include $1.50. A Direct Mail Order Form is included in this addendum. Contact your local HP sales office for prices and assistance in placing orders.

NEW PROGRAMS IN ADDENDUM DATED MAY 1975

NAME	TITLE	VOLUME
ATG	:COMPUTER ORIENTED ACCOUNTING - INTERACTIVE VERSION	4
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EXTADD	:40 DIGIT PRECISION STRING ADDITION	2
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TITER	:SIMULATES TITRATION OF A BASE BY AN ACID	4
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NAME	TITLE	VOLUME	REASON FOR REVISION
ACNODE:	AC CIRCUIT ANALYSIS PROGRAM	2	*Documentation change only. Page 3 "X=REAL PART OF G_m(mhos)"*
ANVAR1:	ANALYSIS OF VARIANCE FOR A RANDOMIZED ONE-WAY DESIGN	2	*Documentation change only. The variable A is calculated on line 9012 and does not have to be entered.*
BITEST:	BINOMIAL PROPORTION	2	*Corrects one line.* *9410 PRINT "9105 LETG=5";G5+1*
CHEM1 :	CAI IN CHEMISTRY	4	*FILES statement corrected for use in A000 ID.*
DECSN :	TOP MANAGEMENT DECISION GAME	3	*Documentation only updated to be compatible with 2000F system.*
EDIT2K:	TEXT EDITOR FOR THE HP 2000C/2000C'/F	1	*New corrected version of software.*
EXTPRE:	40-DIGIT PRECISION MATHEMATICS	2	*Improved, faster version of software.*
FINDIT:	INFORMATION RETRIEVAL SYSTEM	1	*1 line corrected in "SEARCH" program.* *1203 IF NOT J(K) THEN 1210*
FRQ :	FREQUENCY BETWEEN BOUNDARIES	2	*Corrects 4 lines.* *1175 IF M=M2 THEN 1160* *1535 LET M(1)=M2* *2195 LET D$="XX"* *865 IF D$="XX" THEN 980*
GDPA :	EFficient 'CORNER' PORTFOLIOS	3	*Adds Program GDPA2 to software.*
GSIMEQ:	SIMULTANEOUS LINEAR EQUATIONS	2	*Line 343 added to program.* *343 PRINT "DO NOT BEGIN AN EQUATION WITH A MINUS SIGN".*
HELLO :	TYPES DATE, TIME, AND PORT NUMBER ON TERMINAL	1	*Shortened version of software with faster response time during log-on.*
INZOUT:	INPUT/OUTPUT ANALYSIS ON ECONOMIC FLOWS	3	*4 lines corrected in program.* *9432 LET J=I* *9440 LET J=I9* *9445 LET D(J)=D* *9450 LET T(J)=D(J)/D(I9)*
MORGAG:	MORTGAGE ANALYSIS	3	*Corrects 1 line.* *630 R1=R*
MULTX :	LEAST-SQUARES FIT, MULTIPLE Y'S PER X	2	*Corrects 1 line.* *8012 GOTO 9022*
SNOBOL:	SNOBOL3 COMPILER FOR HP 2000C SYSTEM	4	*1 line corrected in program "SNOBOL".* *9020 CHAIN $SNOBER*
STAT16:	COMPUTES AN ANALYSIS OF VARIANCE TABLE AND F-RATIOS	2	*Corrects 1 line. Change line 9891 to 9904.*
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PZTUC	: PILOT TUTORIAL	36877A	4
PILOTF	: PILOT 73 AUTHOR LANGUAGE FOR THE HP 2000F	36756B	4
POLSUB	: POLYNOMIAL SUBTRACTION	36239A	4
SAT	: TRIGONOMETRIC SOLUTIONS OF TRIANGLES	36182A	4
SIPRAC	: PRACTICE WITH SIGNED NUMBERS	36238A	4
STAT	: STATISTICAL ANALYSIS OF LAB DATA	36344A	4
TENS	: DRILL IN MULTIPLICATION OF NUMBERS WITH TRAILING ZEROS	36128A	4
TRIFAC	: FACTORING QUADRATIC TRINOMIALS	36237A	4
WKSHT	: GENERATES MATH WORKSHEETS	36133A	4
CALCULATOR			
DESCAL	: DESK CALCULATOR SUBROUTINE	36674A	4
GRAPH1	: COMPUTER-AUGMENTED CALCULUS TOPICS	36665A	4
MKS1	: COMPUTER-AUGMENTED PHYSICS TOPICS	36671A	4
MKS2	: COMPUTER-AUGMENTED PHYSICS TOPICS	36673A	4
REFLEC	: COMPUTER-AUGMENTED PHYSICS TOPICS	36672A	4
REFRAC	: COMPUTER-AUGMENTED PHYSICS TOPICS	36669A	4

		PROGRAM NUMBER	VOLUME
CASSETTE			
CTC6	: CTC ACCOUNTS PAYABLE	36638A	3
CHARACTER/SYMBOL MANIPULATION (104)			
ZASCII	: ASCII CODE GENERATOR	36257A	1
ALFTOV	: ALPHA TO VARIABLE CONVERSION	36296B	1
ASCII2	: CREATES AN ASCII FILE CONTAINING ALL 256 ASCII CHARACTERS	36256B	1
CALNDR	: PRINTS A CALENDAR	36288A	1
CHARS	: ASCII CHARACTER SET	36220A	1
DATER	: DATE AND DAY OF THE WEEK	36298B	1
FORMAT	: ALLOWS SPECIAL FORMATTING OF DATA PRINTOUT	36005B	1
FORMIF	: F AND I FORMAT	36612A	1
GTAPID	: PAPER TAPE TITLER	36548A	1
HELLO	: TYPES DATE, TIME, AND PORT NUMBER ON TERMINAL	36125C	1
PRINT	: GENERATES LARGE LETTERS	36299A	1
STGINT	: STRING-INTEGER CONVERSIONS	36176A	1
SYSDAT	: SYSTEM DATE UTILITY	36634A	1
TIMER	: TIME OF THE DAY	36297B	1
TITLE	: CHARACTER GENERATION	36114C	1
UCHARS	: CREATES FILE 'VCHAR'	36560A	1
CHEMICAL ENGINEERING (516)			
DEBYE	: COMPUTES DEBYE OR EINSTEIN FUNCTION	36059A	2
CHEMISTRY (507)			
ATOM	: DERIVES THE ELECTRONIC CONFIGURATION OF ANY ELEMENT	36705A	4
ATWT	: CALCULATES ATOMIC WEIGHT	36613A	4
AVOGA	: AVOGADRA'S NUMBER	36614A	4
CALORI	: CALORIMETRY EXPERIMENT	36314A	4
CHEM	: SELF-CORRECTING CHEMISTRY TEST	36295B	4
CHEM1	: CAI IN CHEMISTRY	36878B	4
DECAY1	: RADIOACTIVE DECAY GAME	36306A	4
DECAY2	: NUCLEAR DECAY	36307A	4
ELMENT	: DRILL ON SYMBOLS FOR CHEMICAL ELEMENTS	36267A	4
EMPIR	: CALCULATES EMPIRICAL FORMULAS	36615A	4
EQUIL1	: EQUILIBRIUM SYSTEMS	36308A	4
IONIC	: DRILL ON FORMULAS AND CHARGES OF IONS	36260A	4
IONIC1	: DRILL ON FORMULAS OF IONIC COMPOUNDS	36266A	4
ISOMER	: DRILL ON NAMING ALKANES	36261A	4
KINET	: KINETIC REACTION	36309A	4
MASSD	: MASS DEFECT	36310A	4
MOLAR	: ACID-BASE TITRATION	36616A	4
ORG1	: TEACHES STRAIGHT ALKANE NOMENCLATURE AND NAMING OF BRANCHED ALKANES	36826A	4
ORG5	: TEACHES NOMENCLATURE OF ALKYL HALIDES AND ALCOHOLS	36888-18011	4
ORGCHE	: DRILL ON ORGANIC COMPOUND NOMENCLATURE	36646A	4
PHOSYN	: PHOTOSYNTHESIS EXPERIMENT	36305A	4
PHPOH	: PH, POH, PCT, DISSOCIATION	36617A	4
PRCNT	: PERCENT COMPOSITION	36311A	4
SPCTRA	: OPTICAL ABSORPTION SPECTRA SIMULATION, 2-SPECIES EQUILIBRIUM MIXTURES	36184A	4
STOICH	: MASS VOLUME	36618A	4
TZCPL	: THERMOCOUPLE TABLE PACKAGE	36654A	2
TITER	: STMULATES TITRATION OF A BASE BY AN ACID	36888-18006	4
TRIVIA	: COMMON NAME QUIZ FOR CHEMISTRY STUDENTS	36888-18012	4
CIVIL ENGINEERING (515)			
BEMDES	: RECOMMENDS CORRECT STEEL BEAM USE	36109A	2
CODE/RADIX CONVERSION (105)			
ALFTOV	: ALPHA TO VARIABLE CONVERSION	36296B	1
COMPLEX			
CDETER	: COMPUTES VALUE OF COMPLEX DETERMINANT	36025A	2
CTRFFT	: COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
CXSYSS	: SOLVING SYSTEMS OF COMPLEX LINEAR EQUATIONS	36262A	4
FNCTS	: COMPUTES TRIG FUNCTIONS FOR COMPLEX ARGUMENTS	36017A	2
GFFT	: GENERAL FAST FOURIER TRANSFORM	36030A	2
ROOTS2	: QUADRATIC EQUATION SOLVER	36625A	4
RTCFFT	: REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
COMPLEX ARITHMETIC (303)			
COMPLX	: CAI IN ALGEBRA OF COMPLEX NUMBERS	36153A	4
CXARTH	: VECTOR ARITHMETIC	36118B	2
CXEXP	: VECTOR EXPONENTIATION	36119A	2
FNCTS	: COMPUTES TRIG FUNCTIONS FOR COMPLEX ARGUMENTS	36017A	2
SOLVER	: SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
UHCX	: COMPLEX NUMBER CALCULATOR	36888-18005	2
COMPUTER SCIENCE			
ALERA	: PROPAGATION OF ERROR	36603B	4
BRAIN	: BRAIN SIMULATOR PROGRAM	36219A	4
HPASMB	: HP ASSEMBLER PACKAGE	36806B	4
PZHYP	: SCIENTIFIC METHOD AND HYPOTHESIS	36759A	4
PZTUA	: PILOT TUTORIAL	36758B	4
PZTUB	: PILOT TUTORIAL	36775A	4
PZTUC	: PILOT TUTORIAL	36877A	4
SNOBOL	: SNOBOL3 COMPILER FOR HP 2000C SYSTEM	36849B	4
STOP	: COMPUTER LITERACY - PSEUDO-MACHINE LANGUAGE	36208B	4
STPAL	: STOP MACHINE AND ASSEMBLY LANGUAGE SIMULATOR	36765A	4
TM	: TURING MACHINE SIMULATOR	36743A	4
CONTINUOUS SYSTEMS SIMULATION (607)			
BASP	: BASIC ANALOG SIMULATION PROGRAM	36888-18022	4
GSSS	: SMALL SYSTEMS SIMULATOR	36552A	3
CONVERSION			
DCZOC	: DECIMAL-TO-OCTAL CONVERTER	36747A	2
OCZDC	: OCTAL-TO-DECIMAL CONVERTER	36712A	2
COOLEY-TUKEY			
GFFT	: GENERAL FAST FOURIER TRANSFORM	36030A	2
RTCFFT	: REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
CORRELATION ANALYSIS (409)			
ANVAR4	: TWO-WAY ANALYSIS OF VARIANCE FOR A TWO-WAY EXPERIMENT	36173A	2
CORREL	: CORRELATION COEFFICIENT	36689A	2
MULREG	: MULTIPLE REGRESSION/CORRELATION	36178A	2
PSRC	: POWER SERIES REGRESSION CURVE WITH X-AXIS OFFSET	36793A	2
CRITICAL PATH ANALYSIS (603)			
CPATH	: CRITICAL PATH EVALUATION	36171B	3
GCPATH	: CRITICAL PATH ANALYSIS	36504A	3
GCPM1	: CRITICAL PATH ANALYSIS	36505A	3
CROSS REFERENCE			
XREF	: BASIC LANGUAGE PROGRAM CROSS-REFERENCE GENERATOR	36143C	1
CURVE FITTING (309)			
CRVFT	: LEAST-SQUARES CURVEFITTING	36633A	2
CURFIT	: PERFORMS LEAST SQUARES FIT	36038D	2
DBLFIT	: LEAST SQUARES FIT TO POINTS WITH UNCERTAINTIES IN BOTH VARIABLES	36252A	2
POLFTE	: FITS LEAST-SQUARES POLYNOMIALS	36246A	2
POLY	: POLYNOMIAL APPROXIMATION	36188A	2
PSRC	: POWER SERIES REGRESSION CURVE WITH X-AXIS OFFSET	36793A	2
DATA COMMUNICATIONS			
MESSAG	: INTERTERMINAL COMMUNICATOR	36284A	1
DATA HANDLING UTILITIES (108)			
CALNDR	: PRINTS A CALENDAR	36288A	1
COFTAB	: CONVERSATIONAL FREQUENCY AND CROSS TABULATOR	36888-18020	2
DATER	: DATE AND DAY OF THE WEEK	36298B	1
EDITOR	: FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
FDUMP	: LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMERICS	36888-18037	1
FILDUM	: PAPER TAPE FILE DUMP	36008C	1
FILES	: FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
FILIN	: KEYBOARD FILE LOADING PROGRAM	36007A	1
FILIS	: FILE LISTING PROGRAM	36272A	1
FILIST	: LISTS FILE CONTENTS BY RECORD NUMBER	36009D	1
FILMAN	: FILE MANAGER	36006A	1
FILOAD	: LOADS A FILE FROM THE TELETYPE	36010C	1
FILREA	: REENTERS THE DATA TAPE DUMPED BY FILDUM	36011A	1
FILRPT	: REPORTS FILE CONTENTS AND STRUCTURE	36247A	1
FMS	: FILE MANAGEMENT SYSTEM	36648A	1
HELLO	: TYPES DATE, TIME, AND PORT NUMBER ON TERMINAL	36125C	1
HPMLIT	: LIST/DUMP HP ASSEMBLER FILES	36218A	1
JULIAN	: JULIAN CALENDAR FOR THE CURRENT YEAR	36197A	1
LODUMP	: FILE LOAD/DUMP	36644A	1
PI2	: INFORMATION SYSTEM	36737A	1
SLAB	: SYSTEM LIBRARY ABSTRACTS	36647A	1
SYSDAT	: SYSTEM DATE UTILITY	36634A	1
TIMER	: TIME OF THE DAY	36297B	1

		PROGRAM NUMBER	VOLUME
DEBUGGING AIDS (211)			
XREF	: BASIC LANGUAGE PROGRAM CROSS-REFERENCE GENERATOR	36143C	1
DECIMAL			
DCZOC	: DECIMAL-TO-OCTAL CONVERTER	36747A	2
OCZDC	: OCTAL-TO-DECIMAL CONVERTER	36712A	2
DETERMINANT			
CDETER	: COMPUTES VALUE OF COMPLEX DETERMINANT	36025A	2
DIFFERENTIAL			
DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION	36032A	2
DEZ2OR	: 2ND ORDER DIFFERENTIAL EQUATION	36033A	2
SLOPE	: FINDS DERIVATIVES	36626A	4
DISCRETE SYSTEMS SIMULATION (606)			
DECSN	: TOP MANAGEMENT DECISION GAME	36065C	3
GSSS	: SMALL SYSTEMS SIMULATOR	36552A	3
GVOTE	: COMMITTEE CHOICE ANALYSIS	36550A	3
MZMZ1	: QUEUEING SYSTEM	36655A	3
MZMZS	: QUEUEING SYSTEM	36656A	3
DISCRIMINANT ANALYSIS (403)			
COFTAB	: CONVERSATIONAL FREQUENCY AND CROSS TABULATOR	36888-18020	2
DUMPING (207)			
FDUMP	: LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMERICS	36888-18037	1
FILDUM	: PAPER TAPE FILE DUMP	36008C	1
FILMAN	: FILE MANAGER	36006A	1
FMS	: FILE MANAGEMENT SYSTEM	36648A	1
HPMLIT	: LIST/DUMP HP ASSEMBLER FILES	36218A	1
LODUMP	: FILE LOAD/DUMP	36644A	1
DUPLICATION (106)			
CTRFFT	: COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
DYNAMIC PROGRAMMING (610)			
DYNPRO	: DYNAMIC PROGRAMMING MODEL	36067A	3
SHORTR	: SHORTEST ROUTE PROBLEM	36610A	3
ECONOMIC ANALYSIS (714)			
DECSN	: TOP MANAGEMENT DECISION GAME	36065C	3
GMCR01	: FISCAL POLICY GAME	36519A	4
GMCR05	: ECONOMIC POLICY GAME	36521A	4
GNPSUM	: GROSS NATIONAL PRODUCT SUMMARY	36086A	3
INZOUT	: INPUT/OUTPUT ANALYSIS ON ECONOMIC FLOWS	36088B	3
INACNT	: NATIONAL INCOME & PRODUCT ACCOUNTS	36087A	3
ECONOMICS (EDUCATION) (830)			
BALANC	: TRADE AND PAYMENT BALANCES	36328A	4
BANK	: SOLVES FINANCIAL PROBLEMS	36329B	4
CIRFLW	: CIRCULAR FLOW MODEL	36632A	4
CONSMP	: DEPRESSION/EQUILIBRIUM	36330A	4
GMCR01	: FISCAL POLICY GAME	36519A	4
GMCR05	: ECONOMIC POLICY GAME	36521A	4
GNPSUM	: GROSS NATIONAL PRODUCT SUMMARY	36086A	3
HAMRBI	: AN ECONOMIC SIMULATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
KING	: IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	36773A	5
LABOR	: LABOR/MANAGEMENT BARGAINING	36233A	4
STABIL	: FEDERAL GOVERNMENT STABILIZATION POLICY	36888-18023	4
STOCK	: STOCK MARKET SIMULATION	36331A	4
USECON	: TESTING ECONOMIC HYPOTHESES	36888-18031	4
EDITING (101)			
EDIT2K	: TEXT EDITOR FOR THE HP 2000C/2000C'/F	36838B	1
EDITOR	: FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
FILMAN	: FILE MANAGER	36006A	1
FORM2K	: TEXT FORMATTER	36888-18036	1
MACRO	: A TEXT AND FILE PROCESSING SYSTEM	36003B	1
TIDEX	: SYMBOLIC FILE EDITOR	36204B	1
EDUCATIONAL ADMINISTRATION (885)			
ATTEND	: ABSENTEE LISTING	36202A	4
AVERG1	: AVERAGES AND CURVES GRADES	36340B	4
FREQ	: BAR GRAPHS OF GRADES	36341A	4
GRADE	: TEST GRADE FOR NUMBER OF QUESTIONS MISSED	36342A	4
ITEM1	: NUMBER FREQUENCIES	36343A	4
SGFMS	: STUDENT GRADE FILE MANAGEMENT SYSTEM	36832A	4
STAT	: STATISTICAL ANALYSIS OF LAB DATA	36344A	4

		PROGRAM NUMBER	VOLUME
EIGENVALUES AND EIGENVECTORS (313)			
JACOBI	: EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
ELECTRICAL ENGINEERING (513)			
ACZ1	: COMPUTER AIDED PRACTICE IN EE AC ANALYSIS	36152A	4
ACNODE	: AC CIRCUIT ANALYSIS PROGRAM	36057A	2
ACTFIL	: ACTIVE FILTER DESIGN	36293A	2
ANALAD	: CIRCUIT ANALYSIS	36056A	2
DEBYE	: COMPUTES DEBYE OR EINSTEIN FUNCTION	36059A	2
DVDRS	: CAI IN VOLTAGE AND CURRENT DIVIDERS	36156A	4
EFIELD	: ELECTRIC FIELD STRENGTH	36629A	4
GENFIL	: DESIGNS PASSIVE FILTERS	36784A	2
INDMTR	: ANALYSIS OF BALANCED POLYPHASE INDUCTION MOTOR	36154A	4
KSWEEP	: FREQUENCY PLOT OF POLES AND ZEROES IN A COMPLEX PLANE	36771A	2
LPFLTR	: DESIGNS LOW-PASS FILTERS	36060A	2
MICRO	: MICROWAVE PARAMETERS CONVERSION	36062A	2
MIXSPR	: MIXER SPURIOUS RESPONSE PROGRAM	36064A	2
SOLVER	: SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
TZCPL	: THERMO COUPLE TABLE PACKAGE	36654A	2
UNITS	: CAI IN INTERPRETATION OF EE UNITS	36157A	4
ENGINEERING (EDUCATION) (820)			
ACZ1	: COMPUTER AIDED PRACTICE IN EE AC ANALYSIS	36152A	4
ACNODE	: AC CIRCUIT ANALYSIS PROGRAM	36057A	2
ANALAD	: CIRCUIT ANALYSIS	36056A	2
BASP	: BASIC ANALOG SIMULATION PROGRAM	36888-18022	4
BEMDES	: RECOMMENDS CORRECT STEEL BEAM USE	36109A	2
COMPLX	: CAI IN ALGEBRA OF COMPLEX NUMBERS	36153A	4
DEBYE	: COMPUTES DEBYE OR EINSTEIN FUNCTION	36059A	2
DVDRS	: CAI IN VOLTAGE AND CURRENT DIVIDERS	36156A	4
EXPNTL	: CAI IN SIMPLE EXPONENTIAL FUNCTIONS OF TIME	36148A	4
GENFIL	: DESIGNS PASSIVE FILTERS	36784A	2
GNETFL	: NETWORK FLOW	36529A	3
GTHOR	: SECURITIES EPS GROWTH	36553A	3
HTXFR	: TWO DIMENSIONAL HEAT TRANSFER	36058A	2
INDMTR	: ANALYSIS OF A BALANCED POLYPHASE INDUCTION MOTOR	36154A	4
JACOBI	: EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
LPFLTR	: DESIGNS LOW-PASS FILTERS	36060A	2
MICRO	: MICROWAVE PARAMETERS CONVERSION	36062A	2
MIXSPR	: MIXER SPURIOUS RESPONSE PROGRAM	36064A	2
POLAR	: PLOTS SINGLE VARIABLE IN POLAR FORM	36155A	4
SOLVER	: SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
SOLVIT	: SIMULTANEOUS LINEAR EQUATIONS USING GAUSSIAN REDUCTION	36196A	2
UNITS	: CAI IN INTERPRETATION OF EE UNITS	36157A	4
ENGLISH (EDUCATION) (870)			
VOCAB	: CAI IN WORD USAGE	36880A	4
EXPERIMENTAL DESIGN			
ANOVA	: FACTORIAL ANALYSIS OF VARIANCE (FIVE-WAY, FOR ANY BALANCED DESIGN)	36870A	2
ANVA1	: ONE-WAY ANALYSIS OF VARIANCE USING SAMPLE MEANS AND STD. DEVIATIONS	36871A	2
ANVAR1	: ANALYSIS OF VARIANCE FOR A RANDOMIZED ONE-WAY DESIGN	36039B	2
ANVAR2	: ANALYSIS OF VARIANCE (LATIN SQUARE DESIGN)	36040B	2
ANVAR3	: ANALYSIS OF VARIANCE FOR A TWO VARIABLES OF CLASSIFICATION DESIGN	36172A	2
EXTENDED-PRECISION ARITHMETIC (302)			
EXTADD	: 40 DIGIT PRECISION STRING ADDITION	36888-18040	2
EXTEND	: INFINITE PRECISION MATH UTILITY PROGRAM	36253A	4
EXTPRE	: 40-DIGIT PRECISION MATHEMATICS	36144B	2
FILE MANAGEMENT (110)			
FDUMP	: LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMBERICS	36888-18037	1
FILDUM	: PAPER TAPE FILE DUMP	36008C	1
FILES	: FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
FILIN	: KEYBOARD FILE LOADING PROGRAM	36007A	1
FILIST	: LISTS FILE CONTENTS BY RECORD NUMBER	36009D	1
FILMAN	: FILE MANAGER	36006A	1
FILOAD	: LOADS A FILE FROM THE TELETYPE	36010C	1
FILREA	: REENTERS THE DATA TAPE DUMPED BY FILDUM	36011A	1
FILRPT	: REPORTS FILE CONTENTS AND STRUCTURE	36247A	1
FILRPT	: REPORTS FILE CONTENTS AND STRUCTURE	36247A	1

		PROGRAM NUMBER	VOLUME
FINDIT	INFORMATION RETRIEVAL SYSTEM	36250D	1
FLCOPY	COPIES ONE FILE INTO ANOTHER	36012B	1
FMS	FILE MANAGEMENT SYSTEM	36648A	1
LODUMP	FILE LOAD/DUMP	36644A	1
MACRO	A TEXT AND FILE PROCESSING SYSTEM	36003B	1
P12	INFORMATION SYSTEM	36737A	1
SPSORT	SPEED SORT - GENERAL PURPOSE FILE SORT	36736A	1
TIDEX	SYMBOLIC FILE EDITOR	36204B	1
FINANCIAL ANALYSIS (712)			
ANNUIT	ANNUITY ANALYSIS	36074A	3
BALSHT	PROFORMA INCOME STATEMENT AND BALANCE SHEET	36075A	3
BNKSIM	SIMULATES ONE YEAR'S DEPOSIT AND WITHDRAWAL ACTIVITIES OF SMALL BANK	36713A	4
CAPDCF	CAPITAL INVESTMENT ANALYSIS (DISCOUNTED CASH FLOW METHOD)	36825A	3
CAPINV	CAPITAL INVESTMENT ANALYSIS	36080A	3
CSHFL	CASH FLOW ANALYSIS	36142B	3
CTC3	CTC PROJECTION PROGRAMS	36212B	3
DEPCOM	DEPRECIATION METHOD COMPARISON	36082A	3
EQUITY	COST OF EQUITY CAPITAL	36083A	3
EXDRSK	EXTENDED RISK ANALYSIS	36084A	3
FINFLO	CALCULATES PRESENT VALUE - STREAM OF CASH FLOWS	36711A	3
GFNRAT	FINANCIAL RATIOS	36510A	3
GIRRPV	INVESTMENT RETURN (CASH FLOW)	36513A	3
GRISKA	RISK ANALYSIS IN CAPITAL INVESTMENT	36543A	3
INSTMT	INCOME STATEMENT	36089B	3
LEASIN	LEASE INCOME	36194A	3
LENDER	SIMPLE LOAN ANALYSIS	36090A	3
LESSEE	LEASE ANALYSIS AS DETERMINED BY THE LESSEE	36091B	3
LOAN	LOAN AMORTIZATION	36226A	3
MARKET	TWO COMPANIES IN ONE-PRODUCT COMPETITION	36619A	4
MCOST	COMPARE AND EVALUATE UP TO 1000 MORTGAGE PAYMENT PLANS SIMULTANEOUSLY	36709A	3
MKBUY	MAKE-BUY DECISION ANALYSIS	36093A	3
MORGAG	MORTGAGE ANALYSIS	36094C	3
TRUINT	TRUE ANNUAL INTEREST RATE ANALYSIS	36101A	3
FINE ARTS (EDUCATION) (850)			
KEYSIG	GIVES MAJOR SCALES	36258A	4
MUSIC	TWELVE TONE COMPOSITION PROGRAM	36888-18028	4
MUSIC2	TRIAD SOLVING PROGRAM	36276A	4
MUSIC5	FINDS DOMINANT SEVENTHS	36259A	4
FLOATING POINT			
FORMIF	F AND I FORMAT	36612A	1
FORECASTING TECHNIQUES (608)			
EXSMOO	EXPONENTIAL SMOOTHING ON PRICE DATA	36085B	3
LNTRND	LINEAR TREND FORECASTING	36069A	3
TIMDIF	FIRST DIFFERENCES, PERCENT CHANGES, PERCENT DIFFERENCE	36801A	3
FOREIGN LANGUAGES (EDUCATION) (871)			
CARLOS	COMPUTER-ASSISTED REVIEW LESSONS ON SYNTAX FOR SPANISH II	36175A	4
FORMAT			
FORMAT	ALLOWS SPECIAL FORMATTING OF DATA PRINTOUT	36005B	1
FORMIF	F AND I FORMAT	36612A	1
FOURIER			
CTRFFT	COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
GFFT	GENERAL FAST FOURIER TRANSFORM	36030A	2
RTCFFT	REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
FUNCTIONS, COMPUTATION OF (306)			
BESSEL	CALCULATES BESSEL FUNCTION OF FIRST KIND	36019A	2
DERTIV	COMPUTER-AUGMENTED CALCULUS TOPICS	36662A	4
DESCAL	DESK CALCULATOR SUBROUTINE	36674A	4
FGRAPH	SIMULTANEOUS FUNCTION GRAPHER	36165A	1
FUNDTH	COMPUTER-AUGMENTED CALCULUS TOPICS	36664A	4
GRAPH1	COMPUTER-AUGMENTED CALCULUS TOPICS	36665A	4
GRAPH2	COMPUTER-AUGMENTED PHYSICS TOPICS	36666A	4
INTEGR	COMPUTER-AUGMENTED CALCULUS TOPICS	36667A	4
PARABO	EQUATION OF PARABOLA PASSING THROUGH 3 GIVEN POINTS	36702A	2
PLOT33	KEYBOARD ENTRY MULTIPLE FUNCTION PLOTTER	36659A	1
POLY	POLYNOMIAL APPROXIMATION	36188A	2
ROOTNL	FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2
ROOTNR	LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
GAMES (903)			
23MTCH	23 MATCHES..TAKE TURNS REMOVING THEM..WHOEVER TAKES THE LAST ONE LOSES	36834A	5
ABAGEL	TRY TO GUESS THE COMPUTER'S 3-LETTER WORD	36783A	5
ABASE	GUESS MY NUMBER...IN BASE 2 OR 5 OR 8 OR ...	36848A	5
AMAZE	GET A RANDOM MAZE TAILORED TO THE SIZE YOU CHOOSE	36858A	5
BAGELS	THREE-DIGIT NUMBER GUESSING	36360A	5
BATNUM	MAKE UP YOUR OWN 'NIM' GAME, THEN PLAY AGAINST THE COMPUTER	36105B	5
BIOSIN	CHARTS YOUR LIFE'S PHYSICAL, SENSITIVE AND COGNITIVE CYCLES	36875A	5
BIRDAY	BIRTHDAY PROBABILITY	36653A	5
BLJACK	GAME OF TWENTY-ONE	36103A	5
BOLA	NUCLEAR PHYSICS GAME	36879A	4
BUTTON	BUTTON, BUTTON, WHO'S GOT THE BUTTON?	36782A	5
CANNON	HP 7200A GAME DEMO FOR TIME-SHARED BASIC	36110A	5
CAVES1	FIND YOUR WAY OUT OF THE CAVES. 3 LEVELS OF DIFFICULTY	36787A	5
CAVES2	LIKE CAVES1, BUT **YOU** SET UP THE CAVES FOR A FRIEND TO SOLVE	36872A	5
CHARGE	CHARGE ACCOUNT SIMULATION	36604A	4
CHASE	PURSUIT OF A TARGET	36683A	5
CHOMP	THE BOARD IS A BIG COOKIE, BUT ONE CORNER SQUARE IS POISON	36837A	5
CIVIL2	A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
CLOCKS	GUESSING TIME GIVEN METRIC CLUE WORDS	36657A	5
CRASH	LAND A SPACE MODULE ON THE PLANET OF YOUR CHOICE	36883A	5
DANGLE	USE THE COMPUTER TO MAKE A DANGLING STRING OF STARS..FOR THE VERY YOUNG	36862A	5
DRAG	SIMULATES A DRAG RACE	36601B	5
FTBL	FOOTBALL	36181A	5
GOLF	A GOLF GAME	36102A	5
GOMOKU	9 BY 9 BOARD GAME	36735A	5
GRNPRX	GRAN PRIX RACING GAME	36686A	5
HAMRBI	AN ECONOMIC SIMULATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
HANGMN	GUESS THE SECRET WORD, LETTER BY LETTER	36788A	5
HURKLE	THE HURKLE IS A HAPPY BEAST - FIND HIM IF YOU CAN!	36855A	5
KENO	$25,000.00 KENO GAME	36244A	5
KING	IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	36773A	5
LANDER	ROCKET LANDING VEHICLE	36684A	5
LETTER	THERE ARE 26 LETTERS IN THE ALPHABET, BUT ONLY ONE OF THEM IS **IT**	36833A	5
LIFE	JOHN CONWAY'S CELLULAR BOARD GAME	36138B	5
LUNAR	YOU MUST LAND ON THE MOON MANUALLY BECAUSE THE COMPUTERS WENT KAPUT	36884A	5
MADLIB	COMPLETE A ZANY STORY BY FILLING IN THE BLANKS..BEFORE YOU SEE THE STORY	36792A	5
MANDAL	CREATE YOUR OWN MANDALAS BY CHOOSING DESIGN PARAMETERS	36861A	5
MUGWMP	CIRCLES CROSSING CIRCLES WILL TELL YOU WHERE MUGWUMP HIDES	36856A	5
NIM	THERE ARE PILES OF STARS..WHOEVER TAKES THE LAST STAR WINS	36835A	5
NUMBER	A SIMPLE NUMBER GUESSING GAME	36777A	5
QUADGT	FOUR-DIGIT NUMBER GUESSING GAME	36768A	5
QUBIC5	THREE-D TIC-TAC-TOE...COMPUTER HAS 5 LEVELS OF STRATEGIES	36106B	5
REVERS	UNSCRAMBLE A LIST OF NUMBERS WITH YOUR INGENUITY AND LOTS OF PATIENCE	36886A	5
ROULET	ROULETTE WATCH OUT FOR THE STOP SIGNS!	36650A	5
SLOT	SIMULATES A SLOT MACHINE (USE IN NEVADA ONLY)	36107A	5
SNARK	CATCH HIM WITH A WELL PLACED CIRCLE	36857A	5
STARS	GUESS THE COSMIC NUMBER. WIN SOME STARS FOR YOURSELF	36795A	5
STTRl	STAR TREK	36243B	5
SUNSGN	YOUR NAME AND SUNSIGN ARE USED TO CREATE A UNIQUE ARTISTIC PATTERN	36859A	5
TAXMAN	FACTORS AND PRIME NUMBERS ARE THE KEYS TO THIS ONE	36754A	5
TEASER	BRAIN TEASER PUZZLE	36764A	5
TRADER	STAR TRADER IS AN INTERSTELLAR GAME OF MERCANTILE SKILL	36882A	5
TRAP	TRAP MY NUMBER. THEN MAKE THE TRAP SMALLER AND SMALLER AND SMALLER	36776A	5

		PROGRAM NUMBER	VOLUME
TWQUES	: MATHEMATICAL GAME OF TWENTY QUESTIONS	36130A	4
WORD	: A WORD GAME	36660A	5
WUMPUS	: HUNT THE WUMPUS IN ITS WORLD OF CAVES AND SUPERBATS	36873A	5
ZEROS	: TWO PLAYERS BUILD BRIDGES UNTIL ONE PLAYER CANNOT MOVE	36885A	5
ZOT	: THE BOARD IS MADE OF STARS, AND WHOMEVER ZOTS THE LAST ONE WINS	36854A	5
GAUSSIAN			
BINOPO	: PROBABILITY DISTRIBUTION COMPARISONS	36041A	2
GENERAL PROBABILITY (413)			
CLIMAT	: CLIMATE TEACHING PROGRAM	36760A	4
FORCST	: WEATHER FORECASTING PROGRAM	36750A	2
GEOLOGY (503)			
EVOLU	: NATURAL SELECTION EXPERIMENT	36301A	4
GRAPHIC DISPLAY			
CANNON	: HP 7200A GAME DEMO FOR TIME-SHARED BASIC	36110A	5
DRAGON	: SOLAR ECLIPSE SIMULATION	36785A	4
FPLOT	: FUNCTION PLOT	36112A	1
GRAPHS	: DEMO PLOT PROGRAM FOR HP 7200 PLOTTER	36115A	1
HAZEL	: HAZELTINE 2000 USER SUBROUTINES	36786B	1
TITLE	: CHARACTER GENERATION	36114C	1
HEALTH SCIENCE (EDUCATION) (835)			
MCMAN	: CARDIOVASCULAR SIMULATION	36888-18002	4
HISTOGRAM			
HISS	: SAMPLE STATISTICS AND HISTOGRAM FORMED FROM A SET OF NUMBERS	36235A	1
HISTORY (EDUCATION) (863)			
CIVIL2	: A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
ELECT	: CAMPAIGN STRATEGY AND ELECTIONS	36798A	4
HUNTINGTON I			
ATWT	: CALCULATES ATOMIC WEIGHT	36613A	4
AVERG1	: AVERAGES AND CURVES GRADES	36340B	4
AVOGA	: AVOGADRA'S NUMBER	36614A	4
BFIELD	: MAGNETIC FIELD PICTURE	36312A	4
BOHR	: ENERGY LEVEL DIAGRAM	36313A	4
CALORI	: CALORIMETRY EXPERIMENT	36314A	4
CHARG	: MILLIKAN'S OIL-DROP EXPERIMENT	36621A	4
CIRFLW	: CIRCULAR FLOW MODEL	36632A	4
CLOUDS	: CLOUD FORMATION	36325A	4
CONSMP	: DEPRESSION/EQUILIBRIUM	36330A	4
CRVLEN	: COMPUTES LENGTH OF ANY CURVE	36333A	4
CVAREA	: AREA UNDER CURVE	36620A	4
DROS	: GENETIC CHARACTERISTICS	36300A	4
EFIELD	: ELECTRIC FIELD STRENGTH	36629A	4
EMPIR	: CALCULATES EMPIRICAL FORMULAS	36615A	4
EQUIL1	: EQUILIBRIUM SYSTEMS	36308A	4
EVOLU	: NATURAL SELECTION EXPERIMENT	36301A	4
FREQ	: BAR GRAPHS OF GRADES	36341A	4
GAMGN	: PROCESS OF GAMETOGENESIS	36302A	4
GRADE	: TEST GRADE FOR NUMBER OF QUESTIONS MISSED	36342A	4
ITEM1	: NUMBER FREQUENCIES	36343A	4
KINERV	: REVIEW OF KINEMATICS	36315A	4
KINET	: KINETIC REACTION	36309A	4
LIMSIN	: LIMIT OF (SIN X)/X	36622A	4
MASSD	: MASS DEFECT	36310A	4
MEMBR	: DIFFUSION EXPERIMENT	36611A	4
MOLAR	: ACID-BASE TITRATION	36616A	4
NEWTN2	: NEWTON'S 2ND LAW	36316A	4
NZYM2	: ENZYME REACTION RATE	36304A	4
NZYMC	: ENZYMATIC REACTION RATES	36303A	4
PHOTEL	: PHOTOELECTRIC EFFECT	36317A	4
PHOTON	: ENERGY LEVEL PROBLEM	36318A	4
PHPOH	: PH, POH, PCT, DISSOCIATION	36617A	4
PI	: CALCULATES PI	36623A	4
PLANK	: A PHOTOELECTRIC SIMULATION	36350A	4
PRCNT	: PERCENT COMPOSITION	36311A	4
PRJTL	: PROJECTILE MOTION	36631A	4
QUADT	: NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
RATIO	: SOLVES PROPORTIONS	36336A	4
REFLCT	: LEAST TIME PRINCIPLE AND LIGHT	36319A	4
SLITS	: YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4
SLOPE	: FINDS DERIVATIVES	36626A	4
SNELL	: SNELL'S LAW	36320A	4
SPACE	: SPACECRAFT ORBITS	36321A	4
SQRT	: FINDS SQUARE ROOT	36627A	4
STAT	: STATISTICAL ANALYSIS OF LAB DATA	36344A	4
STATAL	: ARITHMETIC MEAN	36628A	4
STOICH	: MASS VOLUME	36618A	4
SURFAC	: AREA OF SURFACE OF REVOLUTION	36338A	4
VFIELD	: POTENTIAL FIELD PICTURE	36322A	4
VLOCTY	: INSTANTANEOUS VELOCITY	36323A	4
VOLSOL	: VOLUME OF SOLID OF REVOLUTION	36339A	4
WATER1	: WATER BUDGET PROBLEM CHECK	36326A	4
WATER2	: WATER BUDGET	36327A	4
WAVES	: SUM OF TWO WAVES	36324B	4
HUNTINGTON II			
ELECT	: CAMPAIGN STRATEGY AND ELECTIONS	36789A	4
GENE1	: GENETICS SIMULATION	36642B	4
LOCKEY	: LOCK & KEY MODEL OF ENZYME ACTION	36624A	4
POLICY	: STUDENTS FORMULATE NATIONAL POLICY	36649A	4
POLSYS	: SIMULATION OF CITY COUNCIL	36640B	4
POLUT	: WATER POLLUTION SIMULATION	36639B	4
POP	: POPULATION GROWTH	36844A	4
SAP	: SURVEY ANALYSIS PROGRAM	36843A	4
STERL	: FLY POPULATION CONTROL	36641B	4
USPOP	: HUMAN POPULATION PROJECTION	36802A	4
INFORMATION STORAGE AND RETRIEVAL (102)			
ZAIRE	: QUESTIONNAIRE ANALYSIS	36807A	1
ADDRES	: ADDRESS LABELS	36231A	1
EDIT2K	: TEXT EDITOR FOR THE HP 2000C/2000C'/F	36838B	1
EDITOR	: FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
FILES	: FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
FINDIT	: INFORMATION RETRIEVAL SYSTEM	36250D	1
FMS	: FILE MANAGEMENT SYSTEM	36648A	1
FORM2K	: TEXT FORMATTER	36888-18036	1
INDEX	: XREF INDEX OF LIBRARY	36888-18004	4
INDEXR	: INDEXING PROGRAM	36770A	1
LODUMP	: FILE LOAD/DUMP	36644A	1
MACRO	: A TEXT AND FILE PROCESSING SYSTEM	36003B	1
MESSAG	: INTERTERMINAL COMMUNICATOR	36284A	1
PI2	: INFORMATION SYSTEM	36737A	1
SLAB	: SYSTEM LIBRARY ABSTRACTS	36647A	1
INTEGER			
FACTOR	: FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2
FORMIF	: F AND I FORMAT	36612A	1
STGINT	: STRING-INTEGER CONVERSIONS	36176A	1
INTEGRAL TRANSFORMS (316)			
CTRFFT	: COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
GFFT	: GENERAL FAST FOURIER TRANSFORM	36030A	2
RTCFFT	: REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
INTEGRATION			
BESSEL	: CALCULATES BESSEL FUNCTION OF FIRST KIND	36019A	2
INTGR	: DEFINITE INTEGRAL BY MEANS OF 3-POINT GAUSSIAN INTEGRATION FORMULA	36698A	2
INTGRS	: COMPUTES THE AREA UNDER A CURVE	36699A	2
INTERPOLATION/EXTRAPOLATION (307)			
NEWTON	: INTERPOLATION OF NON-LINEAR FUNCTIONS BY NEWTON'S FORMULA	36652A	2
INTERPRETER			
PILOTF	: PILOT 73 AUTHOR LANGUAGE FOR THE HP 2000F	36756B	4
TM	: TURING MACHINE SIMULATOR	36743A	4
INTERRUPT			
STGINT	: STRING-INTEGER CONVERSIONS	36176A	1
INVENTORY ANALYSIS (708)			
CTC1	: CTC MANUFACTURING PARTS CONTROL	36210B	3
CTC2	: CTC INVENTORY CONTROL FOR FINISHED PRODUCTS	36211B	3
REP	: DATA CENTER INVENTORY REPORT GENERATOR	36177A	3
INVESTMENT ANALYSIS (713)			
ANNUIT	: ANNUITY ANALYSIS	36074A	3
BNDPRC	: BOND PRICE ANALYSIS	36076B	3
BNDSWH	: BOND SWITCH ANALYSIS	36077A	3
BNDYLD	: BOND YIELD ANALYSIS	36078B	3
BNKRSV	: BANK RESERVE CALCULATIONS	36079A	3
CAPDCF	: CAPITAL INVESTMENT ANALYSIS (DISCOUNTED CASH FLOW METHOD)	36825A	3
CAPINV	: CAPITAL INVESTMENT ANALYSIS	36080A	3
DROIPB	: DISCOUNTED RETURN ON INVESTMENT AND PAYBACK	36179A	3
EQUITY	: COST OF EQUITY CAPITAL	36083A	3

		PROGRAM NUMBER	VOLUME
EXDRSK	EXTENDED RISK ANALYSIS	36084A	3
EXSMOO	EXPONENTIAL SMOOTHING ON PRICE DATA	36085B	3
GDPA	EFFICIENT 'CORNER' PORTFOLIOS	36508B	3
GKASSF	WARRANT PRICE CALCULATION	36514A	3
GKCOST	PRICE/EARNINGS RATIO CALCULATION	36515A	3
GNMRVB	SECURITIES PORTFOLIO ANALYSIS AND DETERMINATION	36530A	3
GSPMG	STANFORD PORTFOLIO MANAGEMENT GAME	36502A	4
GSTKVL	STOCK VALUATION	36545A	3
GTHOR	SECURITIES EPS GROWTH	36553A	3
MARKOW	SECURITIES PORTFOLIO USING MARKOWITZ MODEL	36092B	3
SAVING	COMPOUND INTEREST	36708A	3
SIMLAT	SIMULATION OF INVESTMENT RETURNS WITH SENSITIVITY ANALYSIS	36888-18019	3
STKINC	STOCK MERGER INCENTIVE PROGRAM	36096A	3
STKRTN	STOCK RETURNS REPORT	36098A	3
STKVAL	STOCK VALUE & EVALUATION REPORT	36100A	3
TRUINT	TRUE ANNUAL INTEREST RATE ANALYSIS	36101A	3
JULIAN			
JULIAN	JULIAN CALENDAR FOR THE CURRENT YEAR	36197A	1
LABEL			
ADDRES	ADDRESS LABELS	36231A	1
LEAST SQUARES			
CRVFT	LEAST-SQUARES CURVEFITTING	36633A	2
MULTX	LEAST-SQUARES FIT, MULTIPLE Y'S PER X	36186B	2
POLFIT	FITS LEAST-SQUARES POLYNOMIALS	36023B	2
POLFTE	FITS LEAST-SQUARES POLYNOMIALS	36246A	2
LINEAR			
GSIMEQ	SIMULTANEOUS LINEAR EQUATIONS	36547B	2
REGCOR	REGRESSION/CORRELATION	36054B	2
REGRES	STEP-WISE REGRESSION	36738A	2
SOLVIT	SIMULTANEOUS LINEAR EQUATIONS USING GAUSSIAN REDUCTION	36196A	2
LINEAR PROGRAMMING (605)			
GINTLP	LINEAR PROGRAMMING-VARIABLES RESTRICTED TO VALUES OF ONE OR ZERO	36512A	3
GLP	LINEAR PROGRAMMING	36516A	3
GLPSA1	LINEAR PROGRAMMING TWO-PHASE SIMPLEX METHOD	36517A	3
LINPRO	LINEAR PROGRAMMING MODEL	36068C	3
LINQUP	SOLVES EITHER A LINEAR OR QUADRATIC PROGRAMMING PROBLEM	36710A	3
LNTRND	LINEAR TREND FORECASTING	36069A	3
TRANSP	TRANSPORTATION PROBLEM	36230A	3
MATHEMATICS (EDUCATION) (801)			
ALGIE	BASIC ALGEBRA DRILL	36851A	4
AREA	COMPUTER-AUGMENTED CALCULUS TOPICS	36668A	4
BAGELS	THREE-DIGIT NUMBER GUESSING	36360A	5
BANK	SOLVES FINANCIAL PROBLEMS	36329B	4
BASE	BASE CONVERTER	36796A	4
BISQAR	SQUARING BINOMIALS	36240A	4
CADA11	COMPUTER ASSISTED ARITHMETIC DRILL	36205A	4
CHASE	PURSUIT OF A TARGET	36683A	5
CRVLEN	COMPUTES LENGTH OF ANY CURVE	36333A	4
CVAREA	AREA UNDER CURVE	36620A	4
CXSYSS	SOLVING SYSTEMS OF COMPLEX LINEAR EQUATIONS	36262A	4
DERSIN	COMPUTER-AUGMENTED CALCULUS TOPICS	36663A	4
DERTIV	COMPUTER-AUGMENTED CALCULUS TOPICS	36662A	4
DESCAL	DESK CALCULATOR SUBROUTINE	36674A	4
DETER4	DETERMINANTS, CHARACTERISTIC POLYNOMIALS AND INVERSES OF MATRICES	36263A	2
DIFFEQ	CAI IN SOLUTION OF LINEAR FIRST-ORDER DIFFERENTIAL EQUATIONS	36159A	4
DIMIS	X-Y AXIS SEGMENT PROGRAM	36277A	4
DRILL	BASIC ARITHMETIC DRILL	36129A	4
EINDIS	EINSTEIN DISTORTIONS	36716A	4
EXTEND	INFINITE PRECISION MATH UTILITY PROGRAM	36253A	4
FACTOR	FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2
FUNDTH	COMPUTER-AUGMENTED CALCULUS TOPICS	36664A	4
GAME	CLASSIC MATRIX OF GAME THEORY	36265A	4
GRAPH1	COMPUTER-AUGMENTED CALCULUS TOPICS	36665A	4
GRAPH2	COMPUTER-AUGMENTED PHYSICS TOPICS	36666A	4
INTEGR	COMPUTER-AUGMENTED CALCULUS TOPICS	36667A	4
LIMSIN	LIMIT OF (SIN X)/X	36622A	4
LINES	CONVERSATIONAL COMPUTER GENERATED CALCULUS QUIZ	36700A	4
LOGIC	LOGIC EXAMINATION PROGRAMS	36251B	4
PI	CALCULATES PI	36623A	4
POLISH	POLISH CONVERSION	36888-18014	4
POLSUB	POLYNOMIAL SUBTRACTION	36239A	4
QUADT	NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
RATIO	SOLVES PROPORTIONS	36336A	4
RNDORD	PLACING INTEGERS IN RANDOM ORDER	36264A	2
ROOTS2	QUADRATIC EQUATION SOLVER	36625A	4
SAT	TRIGONOMETRIC SOLUTIONS OF TRIANGLES	36182A	4
SETS	UNION AND INTERSECTION OF SETS	36337A	4
SIPRAC	PRACTICE WITH SIGNED NUMBERS	36238A	4
SLOPE	FINDS DERIVATIVES	36626A	4
SPHERE	SOLVES SPHERICAL TRIANGLES	36034A	2
SQRT	FINDS SQUARE ROOT	36627A	4
STATAL	ARITHMETIC MEAN	36628A	4
STOCK	STOCK MARKET SIMULATION	36331A	4
SURFAC	AREA OF SURFACE OF REVOLUTION	36338A	4
SYSSOL	SOLVING SYSTEMS OF LINEAR EQUATIONS	36278A	4
TAXMAN	FACTORS AND PRIME NUMBERS ARE THE KEYS TO THIS ONE	36754A	5
TENS	DRILL IN MULTIPLICATION OF NUMBERS WITH TRAILING ZEROS	36128A	4
TRIFAC	FACTORING QUADRATIC TRINOMIALS	36237A	4
TRUTH	TRUTH TABLES FOR BOOLEAN EXPRESSIONS	36602B	4
TWQUES	MATHEMATICAL GAME OF TWENTY QUESTIONS	36130A	4
VOLSOL	VOLUME OF SOLID OF REVOLUTION	36339A	4
WAVES	SUM OF TWO WAVES	36324B	4
WKSHT	GENERATES MATH WORKSHEETS	36133A	4
MATHEMATICS, GENERAL (301)			
BASCAL	BASIC CALCULATOR	36847A	2
BINO	BINOMIAL FUNCTION EXPANSION	36888-18029	2
CRVLEN	COMPUTES LENGTH OF ANY CURVE	36333A	4
DCZOC	DECIMAL-TO-OCTAL CONVERTER	36747A	2
DIMIS	X-Y AXIS SEGMENT PROGRAM	36277A	4
DRILL	BASIC ARITHMETIC DRILL	36129A	4
EXPNTL	CAI IN SIMPLE EXPONENTIAL FUNCTIONS OF TIME	36148A	4
EXTEND	INFINITE PRECISION MATH UTILITY PROGRAM	36253A	4
FACTOR	FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2
FNCTS	COMPUTES TRIG FUNCTIONS FOR COMPLEX ARGUMENTS	36017A	2
FORCST	WEATHER FORECASTING PROGRAM	36750A	2
LINES	CONVERSATIONAL COMPUTER GENERATED CALCULUS QUIZ	36700A	4
LOGIC	LOGIC EXAMINATION PROGRAMS	36251B	4
OCZDC	OCTAL-TO-DECIMAL CONVERTER	36712A	2
PLOT33	KEYBOARD ENTRY MULTIPLE FUNCTION PLOTTER	36659A	1
POLYGN	COMPUTES THE AREA ENCLOSED IN ANY POLYGON	36703A	2
POWER2	POWERS OF TWO TABLES	36888-18009	2
QUADT	NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
ROOTNL	FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2
ROOTNR	LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
SAT	TRIGONOMETRIC SOLUTIONS OF TRIANGLES	36182A	4
SPHERE	SOLVES SPHERICAL TRIANGLES	36034A	2
SQRT	FINDS SQUARE ROOT	36627A	4
SURFAC	AREA OF SURFACE OF REVOLUTION	36338A	4
UHCX	COMPLEX NUMBER CALCULATOR	36888-18005	2
VOLSOL	VOLUME OF SOLID OF REVOLUTION	36339A	4
MATRIX OPERATIONS (312)			
CDETER	COMPUTES VALUE OF COMPLEX DETERMINANT	36025A	2
DETER4	DETERMINANTS, CHARACTERISTIC POLYNOMIALS AND INVERSES OF MATRICES	36263A	2
JACOBI	EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
MARKOV	COMPUTES FOR AN ERGODIC MARKOV CHAIN	36701A	2
MECHANICAL ENGINEERING (514)			
HTXFR	TWO DIMENSIONAL HEAT TRANSFER	36058A	2
METRIC	CONVERTS ENGLISH TO METRIC	36635A	2
ORBIT	INTEGRATES EQUATIONS OF MOTION	36121A	4
MUSIC			
KEYSIG	GIVES MAJOR SCALES	36258A	4
MUSIC	TWELVE TONE COMPOSITION PROGRAM	36888-18028	4
MUSIC2	TRIAD SOLVING PROGRAM	36276A	4
MUSIC5	FINDS DOMINANT SEVENTHS	36259A	4
NEWTON			
LANDIN	COMPUTER-AUGMENTED PHYSICS TOPICS	36670A	4
NEWTON	INTERPOLATION OF NON-LINEAR FUNCTIONS BY NEWTON'S FORMULA	36652A	2
NON-LINEAR			
NEWTON	INTERPOLATION OF NON-LINEAR FUNCTIONS BY NEWTON'S FORMULA	36652A	2

		PROGRAM NUMBER	VOLUME
NON-PARAMETRIC STATISTICS (407)			
CHISQ	: COMPUTES PROBABILITY OF CHI-SQUARE VALUES	36042A	2
CHISQS	: CHI-SQUARE STATISTICS FOR M*N CONTINGENCY TABLES	36043B	2
CROSS2	: CROSS TABULATION AND CHI-SQUARE	36860A	2
FISHER	: FISHER'S EXACT PROBABILITY TEST	36606A	2
SEVPRO	: CHI-SQUARE TEST	36719A	2
STAT06	: CALCULATES SIGN TEST CONFIDENCE INTERVAL	36724A	2
STAT07	: CALCULATES THE CONFIDENCE LIMITS FOR A SET OF DATA	36725A	2
STAT08	: COMPARES TWO GROUPS OF DATA USING THE MEDIAN TEST	36732A	2
STAT14	: ANALYSIS OF VARIANCE AND F-RATIOS (RANDOMIZED COMPLETE BLOCK DESIGN)	36730A	2
STAT2	: MANN-WHITNEY 2 SAMPLE RANK TEST	36052A	2
STAT3	: SPEARMAN RANK CORRELATION COEFFICIENTS	36053A	2
NUMERICAL INTEGRATION (310)			
INTGR	: DEFINITE INTEGRAL BY MEANS OF 3-POINT GAUSSIAN INTEGRATION FORMULA	36698A	2
INTGRS	: COMPUTES THE AREA UNDER A CURVE	36699A	2
OCTAL			
BASCAL	: BASE CALCULATOR	36847A	2
DCZOC	: DECIMAL-TO-OCTAL CONVERTER	36747A	2
OCZDC	: OCTAL-TO-DECIMAL CONVERTER	36712A	2
OPTIMIZATION PROGRAMS (604)			
GNETFL	: NETWORK FLOW	36529A	3
MAXFLO	: MAXIMUM FLOW IN A CAPACITATED NETWORK	36609A	3
SHORTR	: SHORTEST ROUTE PROBLEM	36610A	3
ORDINARY DIFFERENTIAL EQUATIONS (318)			
DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION	36032A	2
DEZ2OR	: 2ND ORDER DIFFERENTIAL EQUATION	36033A	2
DIFFEQ	: CAI IN SOLUTION OF LINEAR FIRST-ORDER DIFFERENTIAL EQUATIONS	36159A	4
PAYROLL ACCOUNTING (706)			
ATG	: COMPUTER ORIENTED ACCOUNTING - INTERACTIVE VERSION	36888-18032	4
CTC4	: CTC PAYROLL PROGRAMS	36213B	3
SALES	: SALES COMMISSION REPORT	36095A	3
PERT (602)			
CPATH	: CRITICAL PATH EVALUATION	36171B	3
PHYSICS (505)			
ALERA	: PROPAGATION OF ERROR	36603B	4
ATOM	: DERIVES THE ELECTRONIC CONFIGURATION OF ANY ELEMENT	36705A	4
BFIELD	: MAGNETIC FIELD PICTURE	36312A	4
BOHR	: ENERGY LEVEL DIAGRAM	36313A	4
BOLA	: NUCLEAR PHYSICS GAME	36879A	4
CLIMAT	: CLIMATE TEACHING PROGRAM	36760A	4
CONVRT	: TEMPERATURE SCALE CONVERSION	36685A	4
EINDIS	: EINSTEIN DISTORTIONS	36716A	4
FORCST	: WEATHER FORECASTING PROGRAM	36750A	2
GRNPRX	: GRAN PRIX RACING GAME	36686A	5
KINERV	: REVIEW OF KINEMATICS	36315A	4
NEWTN2	: NEWTON'S 2ND LAW	36316A	4
PHOTEL	: PHOTOELECTRIC EFFECT	36317A	4
PHOTON	: ENERGY LEVEL PROBLEM	36318A	4
REFLCT	: LEAST TIME PRINCIPLE AND LIGHT	36319A	4
SNELL	: SNELL'S LAW	36320A	4
SPACE	: SPACECRAFT ORBITS	36321A	4
TZCPL	: THERMOCOUPLE TABLE PACKAGE	36654A	2
VFIELD	: POTENTIAL FIELD PICTURE	36322A	4
VLOCTY	: INSTANTANEOUS VELOCITY	36323A	4
WAVFN	: COMPUTES AND PLOTS THE RADIAL PART OF HYDROGEN-LIKE WAVE FUNCTIONS	36733A	2
PILOT			
PMAG	: STELLAR MAGNITUDES	36888-18018	4
PZTUA	: PILOT TUTORIAL	36758B	4
PZTUB	: PILOT TUTORIAL	36775A	4
PZTUC	: PILOT TUTORIAL	36877A	4
PZTUD	: PILOT TUTORIAL	36888-18016	4
PTUE	: PILOT TUTORIAL	36888-18017	4
PLOT ROUTINES IN HP BASIC			
CANNON	: HP 7200A GAME DEMO FOR TIME-SHARED BASIC	36110A	5
FGRAPH	: SIMULTANEOUS FUNCTION GRAPHER	36165A	1
FPLOT	: FUNCTION PLOT	36112A	1
GRAPHS	: DEMO PLOT PROGRAM FOR HP 7200 PLOTTER	36115A	1
GRGPLT	: SIMPLE REGRESSION AND PLOT	36542A	2
HAZEL	: HAZELTINE 2000 USER SUBROUTINES	36786B	1
HISS	: SAMPLE STATISTICS AND HISTOGRAM FORMED FROM A SET OF NUMBERS	36235A	1
HISTOG	: HISTOGRAM FORMED FROM A SET OF NUMBERS	36055B	2
KSWEEP	: FREQUENCY PLOT OF POLES AND ZEROES IN A COMPLEX PLANE	36771A	2
PLOT	: PLOTS A GIVEN FUNCTION ON THE TELETYPE	36104B	1
PLOT33	: KEYBOARD ENTRY MULTIPLE FUNCTION PLOTTER	36659A	1
PLOTWD	: WORD PLOTTER	36228B	1
PLOTXY	: TWO VARIABLE PLOT PROGRAM	36888-18034	1
POLAR	: PLOTS SINGLE VARIABLE IN POLAR FORM	36155A	4
PRINT	: GENERATES LARGE LETTERS	36299A	1
PSQUAR	: PATTERN SQUARES FOR HP 7200A PLOTTER	36249A	1
SLITS	: YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4
STAT1	: HISTOGRAM, STANDARD DEVIATION & PLOT OF A SET OF NUMBERS	36888-18003	2
TITLE	: CHARACTER GENERATION	36114C	1
TRAN1	: GRAPHICS UTILITY PROGRAMS	36888-18038	4
WAVFN	: COMPUTES AND PLOTS THE RADIAL PART OF HYDROGEN-LIKE WAVE FUNCTIONS	36733A	2
POLYNOMIAL			
AREA	: COMPUTER-AUGMENTED CALCULUS TOPICS	36668A	4
POLY	: POLYNOMIAL APPROXIMATION	36188A	2
ROOTER	: FINDS THE ROOTS OF POLYNOMIALS	36024A	2
POLYNOMIALS AND POLYNOMIAL EQUATIONS (311)			
BINO	: BINOMIAL FUNCTION EXPANSION	36888-18029	2
DETER4	: DETERMINANTS, CHARACTERISTIC POLYNOMIALS AND INVERSES OF MATRICES	36263A	2
PARABO	: EQUATION OF PARABOLA PASSING THROUGH 3 GIVEN POINTS	36702A	2
POLY	: POLYNOMIAL APPROXIMATION	36188A	2
QUADRA	: ANALYZES A QUADRATIC EQUATION	36704A	2
ROOTER	: FINDS THE ROOTS OF POLYNOMIALS	36024A	2
ROOTNL	: FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2
ROOTNR	: LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
PROBABILITY DISTRIBUTION SAMPLING (406)			
BICONF	: CONFIDENCE LIMITS	36691A	2
BINOPO	: PROBABILITY DISTRIBUTION COMPARISONS	36041A	2
BIRDAY	: BIRTHDAY PROBABILITY	36653A	5
CHISQ	: COMPUTES PROBABILITY OF CHI-SQUARE VALUES	36042A	2
CHISQS	: CHI-SQUARE STATISTICS FOR M*N CONTINGENCY TABLES	36043B	2
GTASPD	: SUBJECTIVE PROBABILITY DISTRIBUTION	36549A	2
PROB	: COMPUTES BINOMIAL, POISSON AND HYPERGEOMETRIC PROBABILITIES	36718A	2
SEVPRO	: CHI-SQUARE TEST	36719A	2
STAT08	: COMPARES TWO GROUPS OF DATA USING THE MEDIAN TEST	36732A	2
PROBLEM SOLVING			
ACZ1	: COMPUTER AIDED PRACTICE IN EE AC ANALYSIS	36152A	4
AREA	: COMPUTER-AUGMENTED CALCULUS TOPICS	36668A	4
COMPLX	: CAI IN ALGEBRA OF COMPLEX NUMBERS	36153A	4
CRVLEN	: COMPUTES LENGTH OF ANY CURVE	36333A	4
CVAREA	: AREA UNDER CURVE	36620A	4
DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION	36032A	2
DEZ2OR	: 2ND ORDER DIFFERENTIAL EQUATION	36033A	2
DERSIN	: COMPUTER-AUGMENTED CALCULUS TOPICS	36663A	4
DERTIV	: COMPUTER-AUGMENTED CALCULUS TOPICS	36662A	4
DEFFEQ	: CAI IN SOLUTION OF LINEAR FIRST-ORDER DIFFERENTIAL EQUATIONS	36159A	4
DIMIS	: X-Y AXIS SEGMENT PROGRAM	36277A	4
DVDRS	: CAI IN VOLTAGE AND CURRENT DIVIDERS	36156A	4
EXPNTL	: CAI IN SIMPLE EXPONENTIAL FUNCTIONS OF TIME	36148A	4
FACTOR	: FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2
FUNDTH	: COMPUTER-AUGMENTED CALCULUS TOPICS	36664A	4
GRAPH1	: COMPUTER-AUGMENTED CALCULUS TOPICS	36665A	4
GRAPH2	: COMPUTER-AUGMENTED PHYSICS TOPICS	36666A	4
INDMTR	: ANALYSIS OF A BALANCED POLYPHASE INDUCTION MOTOR	36154A	4
JACOBI	: EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
LIMSIN	: LIMIT OF (SIN X)/X	36622A	4
LINES	: CONVERSATIONAL COMPUTER GENERATED CALCULUS QUIZ	36700A	4
LOGIC	: LOGIC EXAMINATION PROGRAMS	36251B	4
ORBIT	: INTEGRATES EQUATIONS OF MOTION	36121A	4
PI	: CALCULATES PI	36623A	4

		PROGRAM NUMBER	VOLUME
QUADT	: NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
RATIO	: SOLVES PROPORTIONS	36336A	4
ROOTS2	: QUADRATIC EQUATION SOLVER	36625A	4
SETS	: UNION AND INTERSECTION OF SETS	36337A	4
SLOPE	: FINDS DERIVATIVES	36626A	4
SOLVER	: SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
SPCTRA	: OPTICAL ABSORPTION SPECTRA SIMULATION, 2-SPECIES EQUILIBRIUM MIXTURES	36184A	4
SQRT	: FINDS SQUARE ROOT	36627A	4
SURFAC	: AREA OF SURFACE OF REVOLUTION	36338A	4
SYSSOL	: SOLVING SYSTEMS OF LINEAR EQUATIONS	36278A	4
TRUTH	: TRUTH TABLES FOR BOOLEAN EXPRESSIONS	36602B	4
UNITS	: CAI IN INTERPRETATION OF EE UNITS	36157A	4
VOLSOL	: VOLUME OF SOLID OF REVOLUTION	36339A	4
PROGRAMMING AIDS (212)			
FILES	: FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
FINDIT	: INFORMATION RETRIEVAL SYSTEM	36250D	1
PROGRAMMING AND COMPUTER SCIENCE (EDUCATION) (810)			
BRAIN	: BRAIN SIMULATOR PROGRAM	36219A	4
PMAG	: STELLAR MAGNITUDES	36888-18018	4
PZTUA	: PILOT TUTORIAL	36758B	4
PZTUB	: PILOT TUTORIAL	36775A	4
PZTUC	: PILOT TUTORIAL	36877A	4
PZTUD	: PILOT TUTORIAL	36888-18016	4
PTUE	: PILOT TUTORIAL	36888-18017	4
PILOTF	: PILOT 73 AUTHOR LANGUAGE FOR THE HP 2000F	36756B	4
POLISH	: POLISH CONVERSION	36888-18014	4
SNOBOL	: SNOBOL3 COMPILER FOR HP 2000C SYSTEM	36849B	4
STOP	: COMPUTER LITERACY - PSEUDO-MACHINE LANGUAGE	36208B	4
STPAL	: STOP MACHINE AND ASSEMBLY LANGUAGE SIMULATOR	36765A	4
TM	: TURING MACHINE SIMULATOR	36743A	4
RANDOM NUMBER GENERATORS (405)			
RNDORD	: PLACING INTEGERS IN RANDOM ORDER	36264A	2
UNLETH	: UNILETH STATISTICS PACKAGE	36888-18021	2
RANK			
GRANK	: RANKING STATISTICS	36541A	2
STAT2	: MANN-WHITNEY 2 SAMPLE RANK TEST	36052A	2
STAT20	: FRIEDMAN TWO-WAY ANALYSIS OF VARIANCE	36608A	2
STAT3	: SPEARMAN RANK CORRELATION COEFFICIENTS	36053A	2
READING (EDUCATION) (872)			
VOCAB	: CAI IN WORD USAGE	36880A	4
REGRESSION ANALYSIS (404)			
CURFIT	: PERFORMS LEAST SQUARES FIT	36038D	2
GRGPLT	: SIMPLE REGRESSION AND PLOT	36542A	2
MLREG	: MULTIPLE REGRESSION PROGRAM	36661A	2
MULREG	: MULTIPLE REGRESSION/CORRELATION	36178A	2
MULTX	: LEAST-SQUARES FIT, MULTIPLE Y'S PER X	36186B	2
POLFIT	: FITS LEAST-SQUARES POLYNOMIALS	36023B	2
PSRC	: POWER SERIES REGRESSION CURVE WITH X-AXIS OFFSET	36793A	2
REGCOR	: REGRESSION/CORRELATION	36054B	2
REGRES	: STEP-WISE REGRESSION	36738A	2
RETURN			
GIRRPV	: INVESTMENT RETURN (CASH FLOW)	36513A	3
RISK			
GRISKA	: RISK ANALYSIS IN CAPITAL INVESTMENT	36543A	3
ROOTS			
ROOTER	: FINDS THE ROOTS OF POLYNOMIALS	36024A	2
ROOTNL	: FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2
ROOTNR	: LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
ROOTS2	: QUADRATIC EQUATION SOLVER	36625A	4
ROVER	: GUIDE ROVER ROBOT ACROSS A GRID, BUT WATCH OUT FOR THE STOP SIGNS!	6881A	5
RUNGE-KUTTA			
DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION	36032A	2
DEZ2OR	: 2ND ORDER DIFFERENTIAL EQUATION	36033A	2
SALES FORECASTING (710)			
SALES	: SALES COMMISSION REPORT	36095A	3
SCIENCE (EDUCATION) (833)			
ALERA	: PROPAGATION OF ERROR	36603B	4
ATOM	: DERIVES THE ELECTRONIC CONFIGURATION OF ANY ELEMENT	36705A	4
ATWT	: CALCULATES ATOMIC WEIGHT	36613A	4
AVOGA	: AVOGADRA'S NUMBER	36614A	4
BFIELD	: MAGNETIC FIELD PICTURE	36312A	4
BOHR	: ENERGY LEVEL DIAGRAM	36313A	4
BOLA	: NUCLEAR PHYSICS GAME	36879A	4
CALORI	: CALORIMETRY EXPERIMENT	36314A	4
CHARG	: MILLIKAN'S OIL-DROP EXPERIMENT	36621A	4
CHEM	: SELF-CORRECTING CHEMISTRY TEST	36295B	4
CHEM1	: CAI IN CHEMISTRY	36878B	4
CLIMAT	: CLIMATE TEACHING PROGRAM	36760A	4
CLOUDS	: CLOUD FORMATION	36325A	4
CONVRT	: TEMPERATURE SCALE CONVERSION	36685A	4
CRVFT	: LEAST-SQUARES CURVEFITTING	36633A	2
DECAY1	: RADIOACTIVE DECAY GAME	36306A	4
DECAY2	: NUCLEAR DECAY	36307A	4
DRAGON	: SOLAR ECLIPSE SIMULATION	36785A	4
DROS	: GENETIC CHARACTERISTICS	36300A	4
EFIELD	: ELECTRIC FIELD STRENGTH	36629A	4
EINDIS	: EINSTEIN DISTORTIONS	36716A	4
ELMENT	: DRILL ON SYMBOLS FOR CHEMICAL ELEMENTS	36267A	4
EMPIR	: CALCULATES EMPIRICAL FORMULAS	36615A	4
EQUIL1	: EQUILIBRIUM SYSTEMS	36308A	4
EVOLU	: NATURAL SELECTION EXPERIMENT	36301A	4
GAMGN	: PROCESS OF GAMETOGENESIS	36302A	4
GRAZE	: GRASSLANDS ECOLOGY SIMULATION	36746A	4
IONIC	: DRILL ON FORMULAS AND CHARGES OF IONS	36260A	4
IONIC1	: DRILL ON FORMULAS OF IONIC COMPOUNDS	36266A	4
ISOMER	: DRILL ON NAMING ALKANES	36261A	4
KINERV	: REVIEW OF KINEMATICS	36315A	4
KINET	: KINETIC REACTION	36309A	4
LANDER	: ROCKET LANDING VEHICLE	36684A	5
LANDIN	: COMPUTER-AUGMENTED PHYSICS TOPICS	36670A	4
LENSES	: SOLVES LENS PROBLEMS	36630A	4
LOCKEY	: LOCK & KEY MODEL OF ENZYME ACTION	36624A	4
MALAR	: MALARIA ERADICATION PROGRAM	36797A	4
MASSD	: MASS DEFECT	36310A	4
MEMBR	: DIFFUSION EXPERIMENT	36611A	4
MKS1	: COMPUTER-AUGMENTED PHYSICS TOPICS	36671A	4
MKS2	: COMPUTER-AUGMENTED PHYSICS TOPICS	36673A	4
MOLAR	: ACID-BASE TITRATION	36616A	4
NEWTN2	: NEWTON'S 2ND LAW	36316A	4
NZYM2	: ENZYME REACTION RATE	36304A	4
NZYMC	: ENZYMATIC REACTION RATES	36303A	4
ORBIT	: INTEGRATES EQUATIONS OF MOTION	36121A	4
ORG1	: TEACHES STRAIGHT ALKANE NOMENCLATURE AND NAMING OF BRANCHED ALKANES	36826A	4
ORG5	: TEACHES NOMENCLATURE OF ALKYL HALIDES AND ALCOHOLS	36888-18011	4
ORGCHE	: DRILL ON ORGANIC COMPOUND NOMENCLATURE	36646A	4
PZHYP	: SCIENTIFIC METHOD AND HYPOTHESIS	36759A	4
PZKEPL	: KEPLER'S 3RD LAW	36779A	4
PHOSYN	: PHOTOSYNTHESIS EXPERIMENT	36305A	4
PHOTEL	: PHOTOELECTRIC EFFECT	36317A	4
PHOTON	: ENERGY LEVEL PROBLEM	36318A	4
PHPOH	: PH, POH, PCT, DISSOCIATION	36617A	4
PLANK	: A PHOTOELECTRIC SIMULATION	36350A	4
POLUT	: WATER POLLUTION SIMULATION	36639B	4
POP	: POPULATION GROWTH	36844A	4
PRCNT	: PERCENT COMPOSITION	36311A	4
PRJTL	: PROJECTILE MOTION	36631A	4
REFLCT	: LEAST TIME PRINCIPLE AND LIGHT	36319A	4
REFLEC	: COMPUTER-AUGMENTED PHYSICS TOPICS	36672A	4
REFRAC	: COMPUTER-AUGMENTED PHYSICS TOPICS	36669A	4
SLITS	: YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4
SNELL	: SNELL'S LAW	36320A	4
SPACE	: SPACECRAFT ORBITS	36321A	4
SPCTRA	: OPTICAL ABSORPTION SPECTRA SIMULATION, 2-SPECIES EQUILIBRIUM MIXTURES	36184A	4
STERL	: FLY POPULATION CONTROL	36641B	4
STOICH	: MASS VOLUME	36618A	4
SUNSET	: SUNRISE-SUNSET PREDICTOR	36180A	2
TITER	: SIMULATES TITRATION OF A BASE BY AN ACID	36888-18006	4
TRIVIA	: COMMON NAME QUIZ FOR CHEMISTRY STUDENTS	36888-18012	4
USPOP	: HUMAN POPULATION PROJECTION	36802A	4
VFIELD	: POTENTIAL FIELD PICTURE	36322A	4
VLOCTY	: INSTANTANEOUS VELOCITY	36323A	4
WATER1	: WATER BUDGET PROBLEM CHECK	36326A	4
WATER2	: WATER BUDGET	36327A	4
WAVES	: SUM OF TWO WAVES	36324B	4
WAVFN	: COMPUTES AND PLOTS THE RADIAL PART OF HYDROGEN-LIKE WAVE FUNCTIONS	36733A	2
SECURITIES			
GDPA	: EFFICIENT 'CORNER' PORTFOLIOS	36508B	3
GKASSF	: WARRANT PRICE CALCULATION	36514A	3
GKCOST	: PRICE/EARNINGS RATIO CALCULATION	36515A	3
GNMRVB	: SECURITIES PORTFOLIO ANALYSIS AND DETERMINATION	36530A	3

		PROGRAM NUMBER	VOLUME
	GSPMG : STANFORD PORTFOLIO MANAGEMENT GAME	36502A	4
	GSTKVL : STOCK VALUATION	36545A	3
SIMPSON			
	BESSEL : CALCULATES BESSEL FUNCTION OF FIRST KIND	36019A	2
SIMULATION			
	ATWT : CALCULATES ATOMIC WEIGHT	36613A	4
	AVOGA : AVOGADRA'S NUMBER	36614A	4
	BALANC : TRADE AND PAYMENT BALANCES	36328A	4
	BANK : SOLVES FINANCIAL PROBLEMS	36329B	4
	BFIELD : MAGNETIC FIELD PICTURE	36312A	4
	BNKSIM : SIMULATES ONE YEAR'S DEPOSIT AND WITHDRAWAL ACTIVITIES OF SMALL BANK	36713A	4
	BOHR : ENERGY LEVEL DIAGRAM	36313A	4
	BRAIN : BRAIN SIMULATOR PROGRAM	36219A	4
	CALORI : CALORIMETRY EXPERIMENT	36314A	4
	CHARG : MILLIKAN'S OIL-DROP EXPERIMENT	36621A	4
	CHARGE : CHARGE ACCOUNT SIMULATION	36604A	4
	CIRFLW : CIRCULAR FLOW MODEL	36632A	4
	CIVIL2 : A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
	CLOUDS : CLOUD FORMATION	36325A	4
	CONSMP : DEPRESSION/EQUILIBRIUM	36330A	4
	DECAY1 : RADIOACTIVE DECAY GAME	36306A	4
	DECAY2 : NUCLEAR DECAY	36307A	4
	DECSN : TOP MANAGEMENT DECISION GAME	36065C	3
	DROS : GENETIC CHARACTERISTICS	36300A	4
	EFIELD : ELECTRIC FIELD STRENGTH	36629A	4
	EMPIR : CALCULATES EMPIRICAL FORMULAS	36615A	4
	EQUIL1 : EQUILIBRIUM SYSTEMS	36308A	4
	EVOLU : NATURAL SELECTION EXPERIMENT	36301A	4
	GAMGN : PROCESS OF GAMETOGENESIS	36302A	4
	GMCR01 : FISCAL POLICY GAME	36519A	4
	GMCR05 : ECONOMIC POLICY GAME	36521A	4
	GRAZE : GRASSLANDS ECOLOGY SIMULATION	36746A	4
	GRISKA : RISK ANALYSIS IN CAPITAL INVESTMENT	36543A	3
	GSSS : SMALL SYSTEMS SIMULATOR	36552A	3
	GVOTE : COMMITTEE CHOICE ANALYSIS	36550A	3
	HAMRBI : AN ECONOMIC SITUATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
	KINERV : REVIEW OF KINEMATICS	36315A	4
	KINET : KINETIC REACTION	36309A	4
	KING : IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	367773A	5
	LABOR : LABOR/MANAGEMENT BARGAINING	36233A	4
	LANDIN : COMPUTER-AUGMENTED PHYSICS TOPICS	36670A	4
	LOCKEY : LOCK & KEY MODEL OF ENZYME ACTION	36624A	4
	MALAR : MALARIA ERADICATION PROGRAM	36797A	4
	MASSD : MASS DEFECT	36310A	4
	MCMAN : CARDIOVASCULAR SIMULATION	36888-18002	4
	MEMBR : DIFFUSION EXPERIMENT	36611A	4
	MKS1 : COMPUTER-AUGMENTED PHYSICS TOPICS	36671A	4
	MKS2 : COMPUTER-AUGMENTED PHYSICS TOPICS	36673A	4
	MOLAR : ACID-BASE TITRATION	36616A	4
	NEWTN2 : NEWTON'S 2ND LAW	36316A	4
	NZYM2 : ENZYME REACTION RATE	36304A	4
	NZYMC : ENZYMATIC REACTION RATES	36303A	4
	PHOSYN : PHOTOSYNTHESIS EXPERIMENT	36305A	4
	PHOTEL : PHOTOELECTRIC EFFECT	36317A	4
	PHOTON : ENERGY LEVEL PROBLEM	36318A	4
	PHPOH : PH, POH, PCT, DISSOCIATION	36617A	4
	PLANK : A PHOTOELECTRIC SIMULATION	36350A	4
	POLICY : STUDENTS FORMULATE NATIONAL POLICY	36649A	4
	POLSYS : SIMULATION OF CITY COUNCIL	36640B	4
	POLUT : WATER POLLUTION SIMULATION	36639B	4
	POP : POPULATION GROWTH	36844A	4
	PRCNT : PERCENT COMPOSITION	36311A	4
	PRJTL : PROJECTILE MOTION	36631A	4
	REFLEC : COMPUTER-AUGMENTED PHYSICS TOPICS	36672A	4
	REFRAC : COMPUTER-AUGMENTED PHYSICS TOPICS	36669A	4
	SAP : SURVEY ANALYSIS PROGRAM	36843A	4
	SIMLAT : SIMULATION OF INVESTMENT RETURNS WITH SENSITIVITY ANALYSIS	36888-18019	3
	SLITS : YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4
	SLOT : SIMULATES A SLOT MACHINE (USE IN NEVADA ONLY)	36107A	5
	SNELL : SNELL'S LAW	36320A	4
	SNOBOL : SNOBOL3 COMPILER FOR HP 2000C SYSTEM	36849B	4
	SPACE : SPACECRAFT ORBITS	36321A	4
	STABIL : FEDERAL GOVERNMENT STABILIZATION POLICY	36888-18023	4
	STERL : FLY POPULATION CONTROL	36641B	4
	STOCK : STOCK MARKET SIMULATION	36331A	4
	STOICH : MASS VOLUME	36618A	4
	STPAL : STOP MACHINE AND ASSEMBLY LANGUAGE SIMULATOR	36765A	4
	TITER : SIMULATES TITRATION OF A BASE BY AN ACID	36888-18006	4
	USECON : TESTING ECONOMIC HYPOTHESES	36888-18031	4
	VFIELD : POTENTIAL FIELD PICTURE	36322A	4
	VLOCTY : INSTANTANEOUS VELOCITY	36323A	4
	WATER1 : WATER BUDGET PROBLEM CHECK	36326A	4
	WATER2 : WATER BUDGET	36327A	4
	WAVES : SUM OF TWO WAVES	36324B	4
SIMULTANEOUS			
	CXSYSS : SOLVING SYSTEMS OF COMPLEX LINEAR EQUATIONS	36262A	4
	GSIMEQ : SIMULTANEOUS LINEAR EQUATIONS	36547B	2
	SOLVIT : SIMULTANEOUS LINEAR EQUATIONS USING GAUSSIAN REDUCTION	36196A	2
	SYSSOL : SOLVING SYSTEMS OF LINEAR EQUATIONS	36278A	4
SOCIAL AND BEHAVIORAL SCIENCES (501)			
	INQUIR : SOCIAL SCIENCE INQUIRY PACKAGE	36888-18001	4
SOCIAL SCIENCE (EDUCATION) (860)			
	BALANC : TRADE AND PAYMENT BALANCES	36328A	4
	BANK : SOLVES FINANCIAL PROBLEMS	36329B	4
	CHARGE : CHARGE ACCOUNT SIMULATION	36604A	4
	CIVIL2 : A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
	CONSMP : DEPRESSION/EQUILIBRIUM	36330A	4
	ELECT : CAMPAIGN STRATEGY AND ELECTIONS	36798A	4
	HAMBRI : AN ECONOMIC SIMULATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
	INQUIR : SOCIAL SCIENCE INQUIRY PACKAGE	36888-18001	4
	KING : IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	36773A	5
	MALAR : MALARIA ERADICATION PROGRAM	36797A	4
	POLICY : STUDENTS FORMULATE NATIONAL POLICY	36649A	4
	POLSYS : SIMULATION OF CITY COUNCIL	36640B	4
	PYRMID : BUILD A PYRAMID	36888-18013	4
	SAP : SURVEY ANALYSIS PROGRAM	36843A	4
	STABIL : FEDERAL GOVERNMENT STABILIZATION POLICY	36888-18023	4
	STOCK : STOCK MARKET SIMULATION	36331A	4
	USECON : TESTING ECONOMIC HYPOTHESES	36888-18031	4
	USPOP : HUMAN POPULATION PROJECTION	36802A	4
SORTING AND MERGING (107)			
	EDITOR : FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
	FINDIT : INFORMATION RETRIEVAL SYSTEM	36250D	1
	IRV : FILE SORT ROUTINE	36232A	1
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	GSTKVL : STOCK VALUATION	36545A	3
	GTAPID : PAPER TAPE TITLER	36548A	1
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SCORES	: COMPUTES MEAN, STANDARD DEVIATION AND STANDARD SCORES FOR TEST SCORES	36136A	2
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SIMPLX	: SOLVES LINEAR PROGRAM (CONDENSED TABLEAU METHOD)	36888-18030	2
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SCORES	: COMPUTES MEAN, STANDARD DEVIATION AND STANDARD SCORES FOR TEST SCORES	36136A	2
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TZTEST	: TEST OF HYPOTHESES USING STUDENTS T DISTRIBUTION	36170A	2
TESTUD	: TEST UNKNOWN POPULATION MEAN	36722A	2
TVALUE	: COMPUTES THE EXACT PROBABILITY OF A T-VALUE WITH A TWO-TAILED TEST	36721A	2

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