

[06_05]九州大学大型計算機センター広報 : 6(5)

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バージョン :
権利関係 :

ライブラリプログラム登録一覧表

1. 九州大学作成

(昭和48年9月3日現在)

1.1 九大センターで開発または収集されたプログラムで以下のような形式と意味をもっています。

形式 A 9/A A/A/A X X X X X

A : 英字, 9 : 数字, X : 英字または数字

意味 ①……分類コードを示す。

②……作成別を示す。QC : センターで開発収集 QU : 利用者提供

③……用途を示す。A : ALGOL F : FORTRAN Z : その他 (応用プログラム等)

④……プログラム名 (サブルーチン名, 手続き名, エレメント名)

プログラムライブラリ分類コード表

A プログラムによる算術演算	1.実数 2.複素数 3.BCD演算 4.級数	I 入力	1.2進 2.8進 3.10進 4.BCD 5.紙テープ 6.補助記憶 9.複合入力
B 初等関数	1.三角関数 2.双曲線関数 3.指数関数および対数関数 4.平方根, 立方根など 5.べき級数 6.その他	J 出力	0.一般 1.2進 2.8進 3.10進 4.BCD 5.アナログ 6.プロット 7.複合出力
C 多項式および特殊関数	1.多項式の値 2.多項式の零点 3.特殊関数の値 4.連立非線型代数方程式 5.連立超越方程式 6.ベッセル関数 7.関数の極小化	K 内部情報伝達	1.ドラムの読み書き 2.磁心より磁心, ドラムよりドラムなど
D 関数に対する演算および微分方程式の解	0.積分方程式の数値解 1.数値積分 2.常微分方程式の数値解 3.偏微分方程式の数値解 4.数値微分 5.階差方程式の数値解 6.関数の変換	L アセンブラ, コンパイラなど	1.アセンブラ 2.コンパイラ 3.モニタ関係
E 内挿および外挿	1.表索引と内挿 2.曲線のあてはめ 3.スムージング (平滑化) 4.階差	M 特殊情報処理	1.分類 2.内部変換 (固定より浮動様式へなど) 3.照合およびませあわせ
F 行列, ベクトルおよび連立一次方程式に対する演算	1.行列演算 2.固有値と固有ベクトル 3.行列式 4.連立一次方程式	N デバッグングルーチン	1.トレーシングトラッキング 2.タンブ 3.サーチ 4.ブレークポイント印刷
G 統計解析および確率	1.データ解析 2.相関および回帰解析 3.時系列 4.分散分析 5.乱数発生 6.多変量解析 7.密度関数分布関数, パーセント点 8.順列, 組み合わせの発生置換 9.その他	O シミュレーション	
H オペレーションズリサーチおよびリニアプログラミング	1.リニアプログラミング 2.ゲームの理論 3.PERT/CPMの基本ルーチン 4.予測関係 5.DYNAMO	P 計算機診断プログラム	
		Q サービスプログラム	1.破算, 掃帚プログラム 2.チェックサムプログラム 3.磁気テープ 4.時計 9.その他
		Y 特定の分野に対する開発プログラム	1.結晶解析 3.原子核 4.原子分子
		Z その他	

1.2 表の説明

1) 表中ファイル名とあるのは登録されている大記憶のファイルの名前を示しますが, MTとあるのは磁気テープに登録されていることを示します。

ファイル名とLIEDで使うファイル定義名は以下の通りです。

	ファイル名	ファイル定義名	内容	形式
P	QS. PLIB. RB	P. LIB	利用者提供・センター開発ライブラリの内基本的なルーチン	RB
PT	QS. PLIB. TEST	P. TEST	試用期間中ライブラリの内基本的なルーチン	RB
A1	QS. ALIB. RB1		利用者提供応用プログラム (原子核コード関係)	RB
A2	QS. ALIB. RB2		" (DYSTALプログラム群)	RB
AE	QS. ALIB. EB		"	EB
MT			"	EB

2) 登録番号の前に*印がついているものは試用期間中のライブラリ **印のあるものは新規登録で試用期間中のライブラリであることを示します。

登録番号	IDコード	題 目	ファイル名	登録番号	IDコード	題 目	ファイル名
4	C2/QU/F/SANJ1	3-DEGREE ALGEBRAIC EQUATION WITH COMPLEX NUMBER COEFFICIENT	P			(QR METHOD)	
57	C2/QC/F/GRAEFS	ALGEBRAIC EQUATION OF HIGHER ORDER (GRAEFFE MODIFY METHOD)	P	43	F2/QU/F/HQRS	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	P
58	C2/QC/F/GRAEFD	ALGEBRAIC EQUATION OF HIGHER ORDER (GRAEFFE MODIFY METHOD)	P	44	F2/QU/F/HQRD	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	P
7	C3/QU/F/CNDS	CUMULATIVE NORMAL DYSTRIIBUTION FUNCTION	P	* 68	F2/QC/F/TDBLS	EIGENVALUE OF TRIDIAGONAL MATRIX (BISECTION METHOD)	PT
8	C3/QU/F/RCNDS	INVERSE FUNCTION OF CUMULATIVE NORMAL DISTRIBUTION FUNCTION	P	* 69	F2/QC/F/TDBLD	EIGENVALUE OF TRIDIAGONAL MATRIX (BISECTION METHOD)	PT
16	C3/QU/F/GAMMAD	GAMMA FUNCTION	P	* 70	F2/QC/F/TDBUS	EIGENVALUE OF TRIDIAGONAL MATRIX (BISECTION METHOD)	PT
17	C3/QU/F/PRESNL	GENERALIZED FRESNEL INTEGRAL	P	* 71	F2/QC/F/TDBUD	EIGENVALUE OF TRIDIAGONAL MATRIX (BISECTION METHOD)	PT
22	C3/QU/F/DRIPGMA	RECIPROCAL OF GAMMA FUNCTION	P	* 72	F2/QC/F/TDQRS	EIGENVALUES OF TRIDIAGONAL MATRIX (QR METHOD)	PT
59	C3/QU/F/DERF	ERROR FUNCTION	P	* 73	F2/QC/F/TDQRD	EIGENVALUES OF TRIDIAGONAL MATRIX (QR METHOD)	PT
* 65	C3/QU/F/BETA	BETA FUNCTION	PT	* 74	F2/QC/F/SBTRS	TRIDIAGONALIZATION OF REAL SYMMETRIC BAND MATRIX	PT
* 66	C3/QU/F/FBET	INCOMPLETE BETA FUNCTION	PT	* 75	F2/QC/F/SBTRD	TRIDIAGONALIZATION OF REAL SYMMETRIC BAND MATRIX	PT
34	C7/QU/F/POWELL	MINIMIZATION OF A FUNCTION	P	* 76	F2/QC/F/SBVCS	EIGENVECTOR OF REAL SYMMETRIC BAND MATRIX	PT
15	D1/QU/F/ROMBER	ROMBERG'S INTEGRATION WITH ERROR CONTROL	P	* 77	F2/QC/F/SBVCD	EIGENVECTOR OF REAL SYMMETRIC BAND MATRIX	PT
18	D1/QU/F/CGJ0	COEFFICIENTS OF GAUSS-JACOBI QUADRATURE FORMULA	P	* 78	F2/QC/F/SBRDS	REDUCTION OF SYMMETRIC EIGENPROBLEM $AX=XX$	PT
19	D1/QU/F/CGL0	COEFFICIENTS OF GAUSS-LAGUERRE QUADRATURE FORMULA	P	* 79	F2/QC/F/SBRDD	REDUCTION OF SYMMETRIC EIGENPROBLEM $AX=XX$	PT
20	D1/QU/F/ROMBGS	NUMERICAL INTEGRATION USING ROMBERG'S ALGORITHM	P	* 80	F2/QU/F/SHQS	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	PT
21	D1/QU/F/ROMBGD	NUMERICAL INTEGRATION USING ROMBERG'S ALGORITHM	P	* 81	F2/QU/F/SHQD	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	PT
* 67	D2/QU/F/TRAMS	ORDINARY DIFFERENTIAL EQUATION (TRAPEZOIDAL RULE WITH AUTOMATIC MODIFICATION)	PT	* 82	F2/QU/F/HHQOS	EIGENVALUE OF HERMITIAN MATRIX (QR METHOD)	PT
** 89	D4/QC/F/DIFF1S	NUMERICAL DIFFERENTIATION FOR ANALYTIC FUNCTIONS	PT	* 83	F2/QU/F/HHQOD	EIGENVALUE OF HERMITIAN MATRIX (QR METHOD)	PT
** 90	D4/QC/F/DIFF1D	NUMERICAL DIFFERENTIATION FOR ANALYTIC FUNCTIONS	PT	* 84	F2/QU/F/HHQS	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	PT
23	D6/QC/F/FFTC5	FAST FOURIER TRANSFORM (COMPLEX TRANSFORM)	P	* 85	F2/QU/F/HHQD	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	PT
24	D6/QC/F/FFTRS	FAST FOURIER TRANSFORM (REAL TRANSFORM)	P	3	F4/QU/F/SWPMLE	INVERSE MATRIX AND LINEAR EQUATION (USING DISK OR MT)	P
1	F2/QU/F/HER4	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX	P	9	F4/QU/F/GSRENS	LINEAR EQUATION (GAUSS-SEIDEL METHOD)	P
11	F2/QU/F/SQRS	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	P	10	F4/QU/F/GSREND	LINEAR EQUATION (GAUSS-SEIDEL METHOD)	P
12	F2/QU/F/SQRD	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	P	46	G1/QU/Z/CNTGT1B	ANALYSIS OF 2*2 CONTINGENCY TABLE	MT
30	F2/QU/F/SQROS	EIGENVALUE OF SYMMETRIC MATRIX (QR METHOD)	P	35	G5/QC/F/KUNIRN	UNIFORM RANDOM NUMBER GENERATOR	P
31	F2/QU/F/SQR0D	EIGENVALUE OF SYMMETRIC MATRIX (QR METHOD)	P	60	G6/QU/Z/MMRA	NORMAL MULTIVARIATE MULTIPLE REGRESSION ANALYSIS INVOLVING MULTIPLICITY OF POPULATIONS (MMRA)	MT
32	F2/QU/F/HQR0S	EIGENVALUE OF HERMITIAN MATRIX (QR METHOD)	P				
33	F2/QU/F/HQR0D	EIGENVALUE OF HERMITIAN MATRIX	P				

* 81	G6/QC/Z/PCAJCB	PRINCIPAL COMPONENT ANALYSIS (JACOBI METHOD)	MT				
* 88	G6/QC/Z/PCAQR	PRINCIPAL COMPONENT ANALYSIS (QR METHOD)	MT	** 99	Y1/QC/Z/DTR3	EQUILIBRIUM INCLINATION	MT
45	G9/QU/Z/EIYOO	STATISTICAL ANALYSIS OF NUTRITIONAL SURVEY DATA (EIYOO)	MT	**100	Y1/QC/Z/OSFD	GENERAL DATA REDUCTION	MT
55	H1/QC/Z/MINIMX	MINIMAX SOLUTION TO OVERDETERMINED LINEAR SYSTEMS (MINIMAX)	MT	**101	Y1/QC/Z/SGMA	POWDER DATA REDUCTION	MT
56	H1/QC/F/MINMAX	MINIMAX SOLUTION TO OVERDETERMINED LINEAR SYSTEMS	P	**102	Y1/QC/Z/SFR5	E-FACTOR SIGMA-2 LIST	MT
6	H3/QU/Z/SUCPM	CALCULATION OF CPM (SUCPM)	MT	**103	Y1/QC/Z/RSSA	STRUCTURE FACTOR AND FOURIER	MT
49	I5/QC/F/PTR	INPUT FOR PTR	P	**104	Y1/QC/Z/RDLS4	STRUCTURE FACTOR	MT
51	I6/QC/F/FRDWT	READ/WRITE ROUTINE FOR GENERAL FILE	P	**105	Y1/QC/Z/FLS4	DIAGONAL LEAST SQUARES	MT
54	I6/QU/F/FLDATA	READ/WRITE ROUTINE FOR D.T. FILE WITH ALGOL-H TYPE FORMAT	P	**106	Y1/QC/Z/ZHFM	FULL MATRIX LEAST SQUARES	MT
2	I9/QU/F/INLIST	INPUT NON-FORMAT	P	**107	Y1/QC/Z/RTE2	MONTE-CARLO / OPTIMAL-SHIFT	MT
53	I9/QU/F/INDATA	HEAD ROUTINE WITH ALGOL-H TYPE FORMAT	P	**108	Y1/QC/Z/RBP3	R-FACTOR MAP	MT
13	J0/QU/F/MPICS	PRINT OF COMPLEX MATRIX	P	**109	Y1/QC/Z/RDA4	BEST PLANE	MT
14	J0/QU/F/MXPTS	PRINT OF REAL MATRIX	P	**110	Y1/QC/Z/RMV4	ATOMIC DISTANCE AND ANGLE	MT
42	J0/QU/F/REFORM	OUTPUT WITHOUT FORMAT	P	25	Y3/QC/Z/AA01	MOLECULAR VIBRATION	MT
47	J0/QC/F/GRAPH	PRINT OF GRAPH	P	26	Y3/QC/Z/AA02	ELASTIC SCATTERING ANALYSIS WITH NUCLEAR OPTICAL MODEL (ELASTC)	MT
48	J0/QC/F/WDLIST	PRINT OF INPUT DATA	P	27	Y3/QC/Z/DB01	DWBA ANALYSIS OF DIRECT NUCLEAR REACTION 1 (DWBA1)	A1
52	J0/QC/F/LETTER	PRINT OF LETTER	P	28	Y3/QC/Z/DB02	CLEBSCH-GORDAN COEFFICIENT	A1
61	K2/QC/F/NBITOP	BIT OPERATION FUNCTION FOR FORTRAN USER	P	29	Y3/QC/Z/DB03	RACAH COEFFICIENT	A1
* 50	M2/QC/F/HENKAN	CODE CONVERSION PROGRAM FOR PTR DATA	P	36	Y3/QC/Z/AA03	NINE-J SYMBOL	MT
62	Q9/QC/Z/CONTRL	CONTROL (CONTRL)	AE	37	Y3/QC/Z/BA02	DWBA ANALYSIS OF DIRECT NUCLEAR REACTION 2 (DWBA2)	MT
63	Q9/QC/Z/EDITOR	EDITOR (EDITOR)	AE	38	Y3/QC/Z/CA01	NUCLEON-NUCLEON SCATTERING BY R-SPACE POTENTIAL (NNS)	A1
** 91	Y1/QC/Z/RLC3	LATTICE CONSTANTS	MT	39	Y3/QC/Z/DA02	VARIABLE METRIC METHOD FOR MINIMIZATION	A1
** 92	Y1/QC/Z/PWS3	DETECTION OF CENTER OF SYMMETRY	MT	40	Y3/QC/Z/DA03	BCS EQUATION	MT
** 93	Y1/QC/Z/ROF3	ONE DIMENSIONAL FOURIER SYNTHESIS	MT	41	Y3/QC/Z/DB05	RANDOM PHASE APPROXIMATION (RPA)	MT
** 94	Y1/QC/Z/RDF3	DRAW FIGURE OF ATOMIC POSITIONS	MT			MATRIX ELEMENTS OF TENSOR FORCE BETWEEN HARMONIC OSCILLATOR WAVE FUNCTIONS	A1
** 95	Y1/QC/Z/TRCL	TRANSFORMATION OF CRYSTAL SETTING AND SPACE GROUP SYMBOL	MT	* 64	Y4/QC/Z/AD05	MOLECULAR INTEGRALS OF CGTO (MICGTO)	MT
** 96	Y1/QC/Z/AFIU	GENERATE ATOMIC SCATTERING FACTOR TABLE	MT	* 86	Y4/QC/Z/GMSCF	ROOTHEAN SCF PROGRAM WITH CGTO BASES	MT
** 97	Y1/QC/Z/ROR3	GENERATE OBSERVABLE REFLECTIONS	MT	5	Z1/QU/Z/DYSTAL	DYSTAL-DYNAMIC STORAGE ALLOCATION	A2
** 98	Y1/QC/Z/INCR	Absorption Corrections for	MT			LANGUAGE IN FORTRAN	

2. 富士通作成 SSL FORTRAN

これらのプログラムは、SYS1、FSSLIB のファイルに登録されています。LIED で使うファイル定義名はF、SSL です。
最新のマニュアルは、FACOM230-60 SSL (科学用サブルーチンライブラリ 使用方法説明書FORTAN編第7版(資料番号
60301001-7)です。

分類コード	呼び出し名	題	目	分類コード	呼び出し名	題	目
B. 一般、特殊関数				B/031/S	SKKFES	COMPLETE ELLIPTIC INTEGRALS OF THE FIRST AND THE SECOND KIND	
B/001/S	CELI1S	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST KIND		B/031/D	SKKFED	COMPLETE ELLIPTIC INTEGRALS OF THE FIRST AND THE SECOND KIND	
B/002/S	CELI2S	COMPLETE ELLIPTIC INTEGRAL OF THE SECOND KIND		B/032/S	THETAS	ELLIPTIC FUNCTION, THETA FUNCTION	
B/003/D	EXPGD	EXPONENTIAL INTEGRAL 1		B/032/D	THETAID	ELLIPTIC FUNCTION, THETA FUNCTION	
B/004/S	GAMANS	GAMMA FUNCTION		B/033/S	FJAPIS	ELLIPTIC FUNCTION, JACOBI'S E-FUNCTION	
B/005/S	GAMA1S	GAMMA FUNCTION		B/033/D	EJARIID	ELLIPTIC FUNCTION, JACOBI'S E-FUNCTION	
B/008/S	LNKAIS	LOG(N)		C. 微積分			
B/008/D	LNKAID	LOG(N)		C/001/S	DIFLAS	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)	
B/009/D	FRESID	FRESNEL'S INTEGRAL		C/001/D	DIFLAD	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)	
B/010/D	SID	SINE INTEGRAL		C/002/S	SIMPS	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)	
B/011/D	CID	COSINE INTEGRAL		C/002/D	SIMP D	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)	
B/012/D	BESJCD	BESSEL FUNCTION J0(X)		C/003/S	GAUSSS	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)	
B/013/D	BESJ1D	BESSEL FUNCTION J1(X)		C/003/D	GAUSSD	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)	
B/014/D	BESYCD	BESSEL FUNCTION Y0(X)		C/004/D	GAS3D	NUMERICAL INTEGRATION (3-POINT GAUSSIAN FORMULA)	
B/015/D	BESY1D	BESSEL FUNCTION Y1(X)		C/005/D	GAS4D	NUMERICAL INTEGRATION (4-POINT GAUSSIAN FORMULA)	
B/016/D	BESICD	BESSEL FUNCTION I0(X)		C/006/D	GAS5D	NUMERICAL INTEGRATION (5-POINT GAUSSIAN FORMULA)	
B/017/D	BESI1D	BESSEL FUNCTION I1(X)		C/007/D	GAS6D	NUMERICAL INTEGRATION (6-POINT GAUSSIAN FORMULA)	
B/018/D	BESKCD	BESSEL FUNCTION K0(X)		C/008/D	GAS7D	NUMERICAL INTEGRATION (7-POINT GAUSSIAN FORMULA)	
B/019/D	BESK1D	BESSEL FUNCTION K1(X)		C/009/D	GAS8D	NUMERICAL INTEGRATION (8-POINT GAUSSIAN FORMULA)	
B/020/D	LEGDD	LEGENDRE'S POLYNOMIAL		C/010/D	GAS9D	NUMERICAL INTEGRATION (9-POINT GAUSSIAN FORMULA)	
B/021/S	BEKIS	POWER SERIES		C/011/D	GAS10D	NUMERICAL INTEGRATION (10-POINT GAUSSIAN FORMULA)	
B/021/D	BEKID	POWER SERIES		C/012/D	GAS12D	NUMERICAL INTEGRATION (12-POINT GAUSSIAN FORMULA)	
B/022/S	BESJNS	BESSEL FUNCTION JN(X)		C/013/D	GAS16D	NUMERICAL INTEGRATION (16-POINT GAUSSIAN FORMULA)	
B/022/D	BESJND	BESSEL FUNCTION JN(X)		C/014/D	GAS24D	NUMERICAL INTEGRATION (24-POINT GAUSSIAN FORMULA)	
B/023/S	BESYNS	BESSEL FUNCTION YN(X)		C/015/D	GAS32D	NUMERICAL INTEGRATION (32-POINT GAUSSIAN FORMULA)	
B/023/D	BESYND	BESSEL FUNCTION YN(X)		C/016/S	SIMPS	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)	
B/024/S	BESINS	BESSEL FUNCTION IN(X)					
B/024/D	BESIND	BESSEL FUNCTION IN(X)					
B/025/S	BESKNS	BESSEL FUNCTION KN(X)					
B/025/D	BESKND	BESSEL FUNCTION KN(X)					
B/026/S	CEP12S	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST AND SECOND KINDS					
B/026/D	CEP12D	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST AND SECOND KINDS					
B/027/S	FXPG2S	EXPONENTIAL INTEGRAL 2					
B/027/D	FXPG2D	EXPONENTIAL INTEGRAL 2					
B/028/S	HERMIS	HERMITE POLYNOMIALS					
B/028/D	HERMID	HERMITE POLYNOMIALS					
B/029/S	LAGUFS	LAGUERRE POLYNOMIALS					
B/029/D	LAGUFD	LAGUERRE POLYNOMIALS					
B/030/S	JACBIS	JACOBI POLYNOMIALS					
B/030/D	JACBID	JACOBI POLYNOMIALS					

C/016/D SIMP1D NUMERICAL INTEGRATION
(SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)

C/017/S GSL4S NUMERICAL INTEGRATION
(4-POINT GAUSS-LAGUERRE FORMULA)

C/018/S GSL5S NUMERICAL INTEGRATION
(5-POINT GAUSS-LAGUERRE FORMULA)

C/019/S GSL6S NUMERICAL INTEGRATION
(6-POINT GAUSS-LAGUERRE FORMULA)

C/020/S GSL7S NUMERICAL INTEGRATION
(7-POINT GAUSS-LAGUERRE FORMULA)

C/021/S GSL8S NUMERICAL INTEGRATION
(8-POINT GAUSS-LAGUERRE FORMULA)

C/022/S GSL9S NUMERICAL INTEGRATION
(9-POINT GAUSS-LAGUERRE FORMULA)

C/023/S GSL10S NUMERICAL INTEGRATION
(10-POINT GAUSS-LAGUERRE FORMULA)

C/023/D GSL10D NUMERICAL INTEGRATION
(10-POINT GAUSS-LAGUERRE FORMULA)

C/024/S GSL11S NUMERICAL INTEGRATION
(11-POINT GAUSS-LAGUERRE FORMULA)

C/024/D GSL11D NUMERICAL INTEGRATION
(11-POINT GAUSS-LAGUERRE FORMULA)

C/025/S GSL12S NUMERICAL INTEGRATION
(12-POINT GAUSS-LAGUERRE FORMULA)

C/025/D GSL12D NUMERICAL INTEGRATION
(12-POINT GAUSS-LAGUERRE FORMULA)

C/026/S GSL13S NUMERICAL INTEGRATION
(13-POINT GAUSS-LAGUERRE FORMULA)

C/026/D GSL13D NUMERICAL INTEGRATION
(13-POINT GAUSS-LAGUERRE FORMULA)

C/027/S GSL14S NUMERICAL INTEGRATION
(14-POINT GAUSS-LAGUERRE FORMULA)

C/027/D GSL14D NUMERICAL INTEGRATION
(14-POINT GAUSS-LAGUERRE FORMULA)

C/028/S GSL15S NUMERICAL INTEGRATION
(15-POINT GAUSS-LAGUERRE FORMULA)

C/028/D GSL15D NUMERICAL INTEGRATION
(15-POINT GAUSS-LAGUERRE FORMULA)

C/029/D GSL16D NUMERICAL INTEGRATION
(16-POINT GAUSS-LAGUERRE FORMULA)

C/030/D GSL17D NUMERICAL INTEGRATION
(17-POINT GAUSS-LAGUERRE FORMULA)

C/031/D GSL18D NUMERICAL INTEGRATION
(18-POINT GAUSS-LAGUERRE FORMULA)

C/032/D GSL19D NUMERICAL INTEGRATION
(19-POINT GAUSS-LAGUERRE FORMULA)

C/033/D GSL20D NUMERICAL INTEGRATION
(20-POINT GAUSS-LAGUERRE FORMULA)

C/034/D GSL21D NUMERICAL INTEGRATION
(21-POINT GAUSS-LAGUERRE FORMULA)

C/035/D GSL22D NUMERICAL INTEGRATION
(22-POINT GAUSS-LAGUERRE FORMULA)

C/036/D GSL23D NUMERICAL INTEGRATION
(23-POINT GAUSS-LAGUERRE FORMULA)

C/037/D GSL24D NUMERICAL INTEGRATION
(24-POINT GAUSS-LAGUERRE FORMULA)

C/038/D GSL25D NUMERICAL INTEGRATION
(25-POINT GAUSS-LAGUERRE FORMULA)

C/039/D GSL26D NUMERICAL INTEGRATION
(26-POINT GAUSS-LAGUERRE FORMULA)

C/040/S GSH7S NUMERICAL INTEGRATION
(7-POINT GAUSS-HERMITE FORMULA)

C/041/S GSH8S NUMERICAL INTEGRATION
(8-POINT GAUSS-HERMITE FORMULA)

C/042/S GSH9S NUMERICAL INTEGRATION
(9-POINT GAUSS-HERMITE FORMULA)

C/043/S GSH10S NUMERICAL INTEGRATION
(10-POINT GAUSS-HERMITE FORMULA)

C/043/D GSH10D NUMERICAL INTEGRATION
(10-POINT GAUSS-HERMITE FORMULA)

C/044/S GSH11S NUMERICAL INTEGRATION
(11-POINT GAUSS-HERMITE FORMULA)

C/044/D GSH11D NUMERICAL INTEGRATION
(11-POINT GAUSS-HERMITE FORMULA)

C/045/S GSH12S NUMERICAL INTEGRATION
(12-POINT GAUSS-HERMITE FORMULA)

C/045/D GSH12D NUMERICAL INTEGRATION
(12-POINT GAUSS-HERMITE FORMULA)

C/046/S GSH13S NUMERICAL INTEGRATION
(13-POINT GAUSS-HERMITE FORMULA)

C/046/D GSH13D NUMERICAL INTEGRATION
(13-POINT GAUSS-HERMITE FORMULA)

C/047/S GSH14S NUMERICAL INTEGRATION
(14-POINT GAUSS-HERMITE FORMULA)

C/047/D GSH14D NUMERICAL INTEGRATION
(14-POINT GAUSS-HERMITE FORMULA)

C/048/S GSH15S NUMERICAL INTEGRATION
(15-POINT GAUSS-HERMITE FORMULA)

C/048/D GSH15D NUMERICAL INTEGRATION
(15-POINT GAUSS-HERMITE FORMULA)

C/049/D GSH16D NUMERICAL INTEGRATION
(16-POINT GAUSS-HERMITE FORMULA)

C/050/D GSH17D NUMERICAL INTEGRATION
(17-POINT GAUSS-HERMITE FORMULA)

C/051/D GSH18D NUMERICAL INTEGRATION
(18-POINT GAUSS-HERMITE FORMULA)

C/052/D GSH19D NUMERICAL INTEGRATION
(19-POINT GAUSS-HERMITE FORMULA)

C/053/D GSH20D NUMERICAL INTEGRATION
(20-POINT GAUSS-HERMITE FORMULA)

C/054/D GSH21D	NUMERICAL INTEGRATION (21-POINT GAUSS-HERMITE FORMULA)	D/003/S BAIR1S	ALGEBRAIC EQUATION (BAIRSTOW'S METHOD)
C/055/D GSH22D	NUMERICAL INTEGRATION (22-POINT GAUSS-HERMITE FORMULA)	D/003/D BAIR1D	ALGEBRAIC EQUATION (BAIRSTOW'S METHOD)
C/056/D GSH23D	NUMERICAL INTEGRATION (23-POINT GAUSS-HERMITE FORMULA)	D/004/S REGFLS	ALGEBRAIC EQUATION (REGULA-FALSI METHOD)
C/057/D GSH24D	NUMERICAL INTEGRATION (24-POINT GAUSS-HERMITE FORMULA)	D/004/D REGFLD	ALGEBRAIC EQUATION (REGULA-FALSI METHOD)
C/058/D GSH25D	NUMERICAL INTEGRATION (25-POINT GAUSS-HERMITE FORMULA)	D/005/S CNWNTS	ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (NEWTON-RAPHSON METHOD)
C/059/D GSH26D	NUMERICAL INTEGRATION (26-POINT GAUSS-HERMITE FORMULA)	D/005/D CNWNTD	ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (NEWTON-RAPHSON METHOD)
C/060/D GSH27D	NUMERICAL INTEGRATION (27-POINT GAUSS-HERMITE FORMULA)	D/006/S JARATS	ALGEBRAIC EQUATION (JARRATT'S MODIFIED METHOD)
C/061/D GSH28D	NUMERICAL INTEGRATION (28-POINT GAUSS-HERMITE FORMULA)	D/006/D JARATD	ALGEBRAIC EQUATION (JARRATT'S MODIFIED METHOD)
C/062/D GSH29D	NUMERICAL INTEGRATION (29-POINT GAUSS-HERMITE FORMULA)	D/007/S CJARTS	ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (JARAT'S METHOD)
C/063/D GSH30D	NUMERICAL INTEGRATION (30-POINT GAUSS-HERMITE FORMULA)	D/007/D CJARTD	ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (JARAT'S METHOD)
C/064/D GSH31D	NUMERICAL INTEGRATION (31-POINT GAUSS-HERMITE FORMULA)	D/008/S TRNCS	TRANSCENDENTAL EQUATION WITH COMPLEX COEFFICIENTS
C/065/S SIMP2S	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT WITH NON-EQUAL INTERVALS)	D/008/D TRNCD	TRANSCENDENTAL EQUATION WITH COMPLEX COEFFICIENTS
C/065/D SIMP2D	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT WITH NON-EQUAL INTERVALS)	D/009/S NONLES	NON-LINEAR EQUATIONS
C/066/S SIMPFS	NUMERICAL INTEGRATION IN HALF INFINITE INTERVAL (SIMPSON'S 1/3 RULE)	D/009/D NONLED	NON-LINEAR EQUATIONS
C/066/D SIMPFD	NUMERICAL INTEGRATION IN HALF INFINITE INTERVAL (SIMPSON'S 1/3 RULE)	E 連立一次方程式	
C/067/S MSIMPS	NUMERICAL INTEGRATION (DOUBLE INTERVAL, SIMPSON'S 1/3 RULE)	F/001/S GAUSES	LINEAR EQUATIONS (GAUSS-SEIDEL METHOD)
C/067/D MSIMPFD	NUMERICAL INTEGRATION (DOUBLE INTERVAL, SIMPSON'S 1/3 RULE)	F/001/D GAUSD	LINEAR EQUATIONS (GAUSS-SEIDEL METHOD)
C/068/S MGAUSS	NUMERICAL INTEGRATION (DOUBLE INTERVAL, GAUSS-LEGENDRE FORMULA)	F/002/S GAUFLS	LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)
C/068/D MGAUSD	NUMERICAL INTEGRATION (DOUBLE INTERVAL, GAUSS-LEGENDRE FORMULA)	F/002/D GAUFLD	LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)
D. 代数方程式		F/003/S SWEFS	LINEAR EQUATIONS (SWEEP OUT METHOD)
D/001/S CARDAS	ALGEBRAIC EQUATION OF DEGREE 3 (CARDANO'S METHOD)	F/003/D SWEFD	LINEAR EQUATIONS (SWEEP OUT METHOD)
D/001/D CARDND	ALGEBRAIC EQUATION OF DEGREE 3 (CARDANO'S METHOD)	F/004/S CSWFS	LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS (SWEEP OUT METHOD)
D/002/S FERRAS	ALGEBRAIC EQUATION OF DEGREE 4 (FERRARI'S METHOD)	F/004/D CSWFD	LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS (SWEEP OUT METHOD)
D/002/D FERRAD	ALGEBRAIC EQUATION OF DEGREE 4 (FERRARI'S METHOD)	F/005/S TRIDGS	TRIANGONAL EQUATIONS (GAUSS'S ELIMINATION METHOD)
		F/005/D TRIDGD	TRIANGONAL EQUATIONS (GAUSS'S ELIMINATION METHOD)
		F/006/S SIMFWS	LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)
		F/006/D SIMFWD	LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)
		F/007/S LA2QRS	THE SOLUTION OF SYSTEM OF NON-LINEAR EQUATIONS
		F/007/D LA2QRD	THE SOLUTION OF SYSTEM OF NON-LINEAR EQUATIONS
		F. 常微分方程式	
		F/001/S RKGS	ORDINARY DIFFERENTIAL EQUATION (RUNGE-KUTTA- GILL METHOD)
		F/001/D RKGD	ORDINARY DIFFERENTIAL EQUATION (RUNGE-KUTTA- GILL METHOD)

F/022/S SRKGS	SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)	G/016/S EVECS	EIGENVECTORS OF REAL MATRIX (SWEEP OUT METHOD)
F/022/D SRKGD	SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)	G/016/D EVECD	EIGENVECTORS OF REAL MATRIX (SWEEP OUT METHOD)
F/023/S SRKGS2S	SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD) WITH CHANGING INTERVAL AUTOMATICALLY	G/017/S HOUSS	EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
F/023/D SRKGD2D	SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD) WITH CHANGING INTERVAL AUTOMATICALLY	G/017/D HOU5D	EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
F/024/S HAMP5S	SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMPING'S METHOD)	G/018/S HESORS	EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (QR METHOD)
F/024/D HAMP5D	SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMPING'S METHOD)	G/018/D HESORD	EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (QR METHOD)
G. 行 列			
G/021/S MA5DS	MATRIX ADDITION	G/019/S HOU52S	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
G/021/D MA5DD	MATRIX ADDITION	G/019/D HOU52D	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
G/022/S MSUBS	MATRIX SUBTRACTION	G/020/S GRENS	EIGENVALUES OF REAL MATRIX (QR METHOD)
G/022/D MSUHD	MATRIX SUBTRACTION	G/020/D GRE5D	EIGENVALUES OF REAL MATRIX (QR METHOD)
G/023/S MMUL1S	MATRIX MULTIPLICATION 1	G/021/S GAVFCS	EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/023/D MMUL1D	MATRIX MULTIPLICATION 1	G/021/D GAVFCD	EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/024/S MMUL2S	MATRIX MULTIPLICATION 2	G/022/S MINV2S	INVERSE MATRIX
G/024/D MMUL2D	MATRIX MULTIPLICATION 2	G/022/D MINV2D	INVERSE MATRIX
G/025/S MTRNSS	MATRIX TRANSPOSITION	G/023/S GAVF2S	RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/025/D MTRNSD	MATRIX TRANSPOSITION	G/023/D GAVF2D	RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/026/S MUNITS	UNIT MATRIX	G/024/S CHSORS	EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (QR METHOD)
G/026/D MUNITD	UNIT MATRIX	G/024/D CHSORD	EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (QR METHOD)
G/027/S MPRTS	MATRIX PRINT	G/025/S THJACS	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (THRESHOLD JACOBI METHOD)
G/027/D MPRTD	MATRIX PRINT	G/025/D THJACD	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (THRESHOLD JACOBI METHOD)
G/028/S MDETS	DETERMINANT	G/026/S HMTORS	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)
G/028/D MDETD	DETERMINANT	G/026/D HMTORD	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)
G/029/S MINVS	MATRIX INVERSION (SWEEP OUT METHOD)	G/027/S GEINS	THE GENERALIZED SYMMETRIC EIGENVALUE PROBLEMS, AX=LAMDA*BX (QR METHOD, INVERSE ITERATION)
G/029/D MINVD	MATRIX INVERSION (SWEEP OUT METHOD)	G/027/D GEIND	THE GENERALIZED SYMMETRIC EIGENVALUE PROBLEMS, AX=LAMDA*BX (QR METHOD, INVERSE ITERATION)
G/030/S JACORS	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)	H. フーリエ級数	
G/030/D JACORD	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)	H/001/D COFOD	COSINE ANALYSIS OF FOURIER SERIES
G/031/S HERM5S	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX	H/002/D SIFOD	SINE ANALYSIS OF FOURIER SERIES
G/031/D HERM5D	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX		
G/034/S DARAS	EIGENVALUES OF REAL MATRIX (DANILEVSKII'S METHOD)		
G/034/D DARAD	EIGENVALUES OF REAL MATRIX (DANILEVSKII'S METHOD)		
G/035/S DAN5WS	EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)		
G/035/D DAN5WD	EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)		

H/003/D COASSD COSINE ASSEMBLY OF FOURIER SERIES
 H/004/D SIASSD SINE ASSEMBLY OF FOURIER SERIES
 H/005/S FFTS FAST FOURIER TRANSFORM
 H/005/D FFTD FAST FOURIER TRANSFORM

I. 関数近似

I/001/D LSTS@D POLYNOMIAL APPROXIMATION BY LEAST SQUARE
 I/002/D MSTAPD BEST APPROXIMATION
 I/003/S LAGS LAGRANGE'S INTERPOLATION
 I/003/D LAGD LAGRANGE'S INTERPOLATION
 I/005/S CHEBS TCHEBYSHEV APPROXIMATION (COMPUTE THE
 TCHEBYSHEV COEFFICIENTS)
 I/005/D CHEBD TCHEBYSHEV APPROXIMATION (COMPUTE THE
 TCHEBYSHEV COEFFICIENTS)
 I/006/S TINTS TCHEBYSHEV APPROXIMATION (COMPUTE THE
 FUNCTION VALUE BY USING TCHEBYSHEV
 COEFFICIENTS)
 I/006/D TINTD TCHEBYSHEV APPROXIMATION (COMPUTE THE
 FUNCTION VALUE BY USING TCHEBYSHEV
 COEFFICIENTS)
 I/007/S SPLINS SPLINE INTERPOLATION
 I/007/D SPLIND SPLINE INTERPOLATION
 I/008/S CHRAPS RATIONAL APPROXIMATION BY CHERYSHEV'S
 POLYNOMIAL
 I/008/D CHRAPD RATIONAL APPROXIMATION BY CHERYSHEV'S
 POLYNOMIAL
 I/009/S CHRCFS BEST APPROXIMATION BY CHERYSHEV'S POLYNOMIAL +
 DISCRETE DATA
 I/009/D CHRCFD BEST APPROXIMATION BY CHERYSHEV'S POLYNOMIAL +
 DISCRETE DATA
 I/010/S CONFRS RATIONAL APPROXIMATION BY CONTINUED FRACTION +
 DISCRETE DATA
 I/010/D CONFRD RATIONAL APPROXIMATION BY CONTINUED FRACTION +

DISCRETE DATA

J. 偏微分方程式

J/001/S ELPDES PARTIAL DIFFERENTIAL EQUATION OF ELLIPTIC
 TYPE
 J/002/S PAPDES PARTIAL DIFFERENTIAL EQUATION OF PARABOLIC
 TYPE
 J/002/D PAPDED PARTIAL DIFFERENTIAL EQUATION OF PARABOLIC
 TYPE
 J/003/S HYHDES PARTIAL DIFFERENTIAL EQUATION OF HYPERBOLIC
 TYPE
 J/003/D HYHDED PARTIAL DIFFERENTIAL EQUATION OF HYPERBOLIC
 TYPE

K. 積分方程式

K/001/S INEV2S VOLTEKRA'S INTEGRAL EQUATION OF SECOND KIND
 K/001/D INEV2D VOLTEKRA'S INTEGRAL EQUATION OF SECOND KIND

Z. その他

Z/001/S PUADS ADDITION OF POLYNOMIALS
 Z/001/D PUADD ADDITION OF POLYNOMIALS
 Z/002/S PUSURS SUBTRACTION OF POLYNOMIALS
 Z/002/D PUSURD SUBTRACTION OF POLYNOMIALS
 Z/003/S PUMULS MULTIPLICATION OF POLYNOMIALS
 Z/003/D PUMULD MULTIPLICATION OF POLYNOMIALS
 Z/004/S PUDIVS DIVISION OF POLYNOMIALS
 Z/004/D PUDIVD DIVISION OF POLYNOMIALS
 Z/006/S NORPNS NORMAL RANDOM NUMBERS
 Z/007/S POISNS POISSON RANDOM NUMBERS
 Z/009/S CUMPS BINOMIAL COEFFICIENTS
 Z/009/D CUMPD BINOMIAL COEFFICIENTS
 Z/010/S DAVIDS MINIMIZATION OF FUNCTION DERIVATIVE
 Z/010/D DAVIDD MINIMIZATION OF FUNCTION DERIVATIVE

3. 富士通作成 SSL ALGOL

これらのプログラムは、SYS 1. ASSLIB のファイルに登録されています。LIEDで使うファイル定義名はA. SSLです。
最新のマニュアルは、FACOM 230-60 SSL (科学用サブルーチンライブラリ) 使用方法解説書ALGOL編第5版 (資料番号
60301002-5) です。 *印のあるものは新規登録のプログラムです。

分類コード	呼び出し名	題 目	分類コード	呼び出し名	題 目
B. 一般特殊関数:					
B/001/A	CELI1A	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST KIND	B/029/A	LAGUEA	LAGUERRE POLYNOMIALS
B/002/A	CELI2A	COMPLETE ELLIPTIC INTEGRAL OF THE SECOND KIND	B/029/B	LAGUEB	LAGUERRE POLYNOMIALS
B/003/B	EXPGB	EXPONENTIAL INTEGRAL 1	B/030/A	JACRIA	JACOBI POLYNOMIALS
B/004/A	GAMMNA	GAMMA FUNCTION	B/030/B	JACRIB	JACOBI POLYNOMIALS
B/005/A	GAMMAA	GAMMA FUNCTION	B/031/A	QKKFEA	COMPLETE ELLIPTIC INTEGRALS OF THE FIRST AND THE SECOND KIND
B/006/A	ERFA	ERROR FUNCTION	B/031/B	QKKEEB	COMPLETE ELLIPTIC INTEGRALS OF THE FIRST AND THE SECOND KIND.
B/006/B	ERFB	ERROR FUNCTION	B/032/A	THETAA	ELLIPTIC FUNCTION, THETE FUNCTION
B/007/S	ERFCA	ERROR FUNCTION	B/032/B	THETAB	ELLIPTIC FUNCTION, THETE FUNCTION
B/007/B	ERFCB	ERROR FUNCTION	B/033/A	EJABIA	ELLIPTIC FUNCTION, JACOBI'S E-FUNCTION
B/008/A	LNKAIA	LOG(N!)	B/033/B	EJABIB	ELLIPTIC FUNCTION, JACOBI'S E-FUNCTION
B/008/B	LNKAIB	LOG(N!)	C. 微積分		
B/009/B	FRESB	FRESNEL'S INTEGRAL	C/001/A	DIFLAA	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)
B/010/B	SIB	SINE INTEGRAL	C/001/B	DIFLAB	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)
B/011/B	CIB	COSINE INTEGRAL	C/002/A	SIMPA	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)
B/012/B	BESJ0B	BESSEL FUNCTION J0(X)	C/002/B	SIMPB	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)
B/013/B	BESJ1B	BESSEL FUNCTION J1(X)	C/003/A	GAUSSA	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)
B/014/B	BESY0B	BESSEL FUNCTION Y0(X)	C/003/B	GAUSSB	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)
B/015/B	BESY1B	BESSEL FUNCTION Y1(X)	C/004/B	GAS3B	NUMERICAL INTEGRATION (3-POINT GAUSSIAN FORMULA)
B/016/B	BESI0B	BESSEL FUNCTION I0(X)	C/005/B	GAS4B	NUMERICAL INTEGRATION (4-POINT GAUSSIAN FORMULA)
B/017/B	BESI1B	BESSEL FUNCTION I1(X)	C/006/B	GAS5B	NUMERICAL INTEGRATION (5-POINT GAUSSIAN FORMULA)
B/018/B	BESK0B	BESSEL FUNCTION K0(X)	C/007/B	GAS6B	NUMERICAL INTEGRATION (6-POINT GAUSSIAN FORMULA)
B/019/B	BESK1B	BESSEL FUNCTION K1(X)	C/008/B	GAS7B	NUMERICAL INTEGRATION (7-POINT GAUSSIAN FORMULA)
B/020/B	LEGDB	LEGENDRE'S POLYNOMIAL	C/009/B	GAS8B	NUMERICAL INTEGRATION (8-POINT GAUSSIAN FORMULA)
B/021/A	BEKIA	POWER SERIES	C/010/B	GAS9B	NUMERICAL INTEGRATION (9-POINT GAUSSIAN FORMULA)
B/021/B	BEKIB	POWER SERIES	C/011/B	GAS10B	NUMERICAL INTEGRATION (10-POINT GAUSSIAN FORMULA)
B/022/A	BESJNA	BESSEL FUNCTION JN(X)	C/012/B	GAS12B	NUMERICAL INTEGRATION (12-POINT GAUSSIAN FORMULA)
B/022/B	BESJNB	BESSEL FUNCTION JN(X)	C/013/B	GAS16B	NUMERICAL INTEGRATION (16-POINT GAUSSIAN FORMULA)
B/023/A	BESYNA	BESSEL FUNCTION YN(X)	C/014/B	GAS24B	NUMERICAL INTEGRATION (24-POINT GAUSSIAN FORMULA)
B/023/B	BESYNB	BESSEL FUNCTION YN(X)			
B/024/A	BESINA	BESSEL FUNCTION IN(X)			
B/024/B	BESINB	BESSEL FUNCTION IN(X)			
B/025/A	BESKNA	BESSEL FUNCTION KN(X)			
B/025/B	BESKNB	BESSEL FUNCTION KN(X)			
B/026/A	CEP12A	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST AND SECOND KINDS			
B/026/B	CEP12B	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST AND SECOND KINDS			
B/027/A	EXPG2A	EXPONENTIAL INTEGRAL 2			
B/027/B	EXPG2B	EXPONENTIAL INTEGRAL 2			
B/028/A	HERMIA	HERMITE POLYNOMIALS			
B/028/B	HERMIB	HERMITE POLYNOMIALS			

C/015/B GAS32B	NUMERICAL INTEGRATION (32-POINT GAUSSIAN FORMULA)	C/033/B GSL20B	NUMERICAL INTEGRATION (20-POINT GAUSS-LAGUERRE FORMULA)
C/016/A SIMP1A	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)	C/034/B GSL21B	NUMERICAL INTEGRATION (21-POINT GAUSS-LAGUERRE FORMULA)
C/016/B SIMP1B	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)	C/035/B GSL22B	NUMERICAL INTEGRATION (22-POINT GAUSS-LAGUERRE FORMULA)
C/017/A GSL4A	NUMERICAL INTEGRATION (4-POINT GAUSS-LAGUERRE FORMULA)	C/036/B GSL23B	NUMERICAL INTEGRATION (23-POINT GAUSS-LAGUERRE FORMULA)
C/018/A GSL5A	NUMERICAL INTEGRATION (5-POINT GAUSS-LAGUERRE FORMULA)	C/037/B GSL24B	NUMERICAL INTEGRATION (24-POINT GAUSS-LAGUERRE FORMULA)
C/019/A GSL6A	NUMERICAL INTEGRATION (6-POINT GAUSS-LAGUERRE FORMULA)	C/038/B GSL25B	NUMERICAL INTEGRATION (25-POINT GAUSS-LAGUERRE FORMULA)
C/020/A GSL7A	NUMERICAL INTEGRATION (7-POINT GAUSS-LAGUERRE FORMULA)	C/039/B GSL26B	NUMERICAL INTEGRATION (26-POINT GAUSS-LAGUERRE FORMULA)
C/021/A GSL8A	NUMERICAL INTEGRATION (8-POINT GAUSS-LAGUERRE FORMULA)	C/040/A GSH7A	NUMERICAL INTEGRATION (7-POINT GAUSS-HERMITE FORMULA)
C/022/A GSL9A	NUMERICAL INTEGRATION (9-POINT GAUSS-LAGUERRE FORMULA)	C/041/A GSH8A	NUMERICAL INTEGRATION (8-POINT GAUSS-HERMITE FORMULA)
C/023/A GSL10A	NUMERICAL INTEGRATION (10-POINT GAUSS-LAGUERRE FORMULA)	C/042/A GSH9A	NUMERICAL INTEGRATION (9-POINT GAUSS-HERMITE FORMULA)
C/023/B GSL10B	NUMERICAL INTEGRATION (10-POINT GAUSS-LAGUERRE FORMULA)	C/043/A GSH10A	NUMERICAL INTEGRATION (10-POINT GAUSS-HERMITE FORMULA)
C/024/A GSL11A	NUMERICAL INTEGRATION (11-POINT GAUSS-LAGUERRE FORMULA)	C/043/B GSH10B	NUMERICAL INTEGRATION (10-POINT GAUSS-HERMITE FORMULA)
C/024/B GSL11B	NUMERICAL INTEGRATION (11-POINT GAUSS-LAGUERRE FORMULA)	C/044/A GSH11A	NUMERICAL INTEGRATION (11-POINT GAUSS-HERMITE FORMULA)
C/025/A GSL12A	NUMERICAL INTEGRATION (12-POINT GAUSS-LAGUERRE FORMULA)	C/044/B GSH11B	NUMERICAL INTEGRATION (11-POINT GAUSS-HERMITE FORMULA)
C/025/B GSL12B	NUMERICAL INTEGRATION (12-POINT GAUSS-LAGUERRE FORMULA)	C/045/A GSH12A	NUMERICAL INTEGRATION (12-POINT GAUSS-HERMITE FORMULA)
C/026/A GSL13A	NUMERICAL INTEGRATION (13-POINT GAUSS-LAGUERRE FORMULA)	C/045/B GSH12B	NUMERICAL INTEGRATION (12-POINT GAUSS-HERMITE FORMULA)
C/026/B GSL13B	NUMERICAL INTEGRATION (13-POINT GAUSS-LAGUERRE FORMULA)	C/046/A GSH13A	NUMERICAL INTEGRATION (13-POINT GAUSS-HERMITE FORMULA)
C/027/A GSL14A	NUMERICAL INTEGRATION (14-POINT GAUSS-LAGUERRE FORMULA)	C/046/B GSH13B	NUMERICAL INTEGRATION (13-POINT GAUSS-HERMITE FORMULA)
C/027/B GSL14B	NUMERICAL INTEGRATION (14-POINT GAUSS-LAGUERRE FORMULA)	C/047/A GSH14A	NUMERICAL INTEGRATION (14-POINT GAUSS-HERMITE FORMULA)
C/028/A GSL15A	NUMERICAL INTEGRATION (15-POINT GAUSS-LAGUERRE FORMULA)	C/047/B GSH14B	NUMERICAL INTEGRATION (14-POINT GAUSS-HERMITE FORMULA)
C/028/B GSL15B	NUMERICAL INTEGRATION (15-POINT GAUSS-LAGUERRE FORMULA)	C/048/A GSH15A	NUMERICAL INTEGRATION (15-POINT GAUSS-HERMITE FORMULA)
C/029/B GSL16B	NUMERICAL INTEGRATION (16-POINT GAUSS-LAGUERRE FORMULA)	C/048/B GSH15B	NUMERICAL INTEGRATION (15-POINT GAUSS-HERMITE FORMULA)
C/030/B GSL17B	NUMERICAL INTEGRATION (17-POINT GAUSS-LAGUERRE FORMULA)	C/049/B GSH16B	NUMERICAL INTEGRATION (16-POINT GAUSS-HERMITE FORMULA)
C/031/B GSL18B	NUMERICAL INTEGRATION (18-POINT GAUSS-LAGUERRE FORMULA)	C/050/B GSH17B	NUMERICAL INTEGRATION (17-POINT GAUSS-HERMITE FORMULA)
C/032/B GSL19B	NUMERICAL INTEGRATION (19-POINT GAUSS-LAGUERRE FORMULA)	C/051/B GSH18B	NUMERICAL INTEGRATION (18-POINT GAUSS-HERMITE FORMULA)

C/052/B GSH19B NUMERICAL INTEGRATION
(19-POINT GAUSS-HERMITE FORMULA)

C/053/B GSH20B NUMERICAL INTEGRATION
(20-POINT GAUSS-HERMITE FORMULA)

C/054/B GSH21B NUMERICAL INTEGRATION
(21-POINT GAUSS-HERMITE FORMULA)

C/055/B GSH22B NUMERICAL INTEGRATION
(22-POINT GAUSS-HERMITE FORMULA)

C/056/B GSH23B NUMERICAL INTEGRATION
(23-POINT GAUSS-HERMITE FORMULA)

C/057/B GSH24B NUMERICAL INTEGRATION
(24-POINT GAUSS-HERMITE FORMULA)

C/058/B GSH25B NUMERICAL INTEGRATION
(25-POINT GAUSS-HERMITE FORMULA)

C/059/B GSH26B NUMERICAL INTEGRATION
(26-POINT GAUSS-HERMITE FORMULA)

C/060/B GSH27B NUMERICAL INTEGRATION
(27-POINT GAUSS-HERMITE FORMULA)

C/061/B GSH28B NUMERICAL INTEGRATION
(28-POINT GAUSS-HERMITE FORMULA)

C/062/B GSH29B NUMERICAL INTEGRATION
(29-POINT GAUSS-HERMITE FORMULA)

C/063/B GSH30B NUMERICAL INTEGRATION
(30-POINT GAUSS-HERMITE FORMULA)

C/064/B GSH31B NUMERICAL INTEGRATION
(31-POINT GAUSS-HERMITE FORMULA)

C/065/A SIMP2A NUMERICAL INTEGRATION
(SIMPSON'S 1/3 RULE, DIGITAL INPUT WITH
NON-EQUAL INTERVALS)

C/065/B SIMP2B NUMERICAL INTEGRATION
(SIMPSON'S 1/3 RULE, DIGITAL INPUT WITH
NON-EQUAL INTERVALS)

C/066/A SIMPFA NUMERICAL INTEGRATION IN HALF INFINITE
INTERVAL (SIMPSON'S 1/3 RULE)

C/066/B SIMPFB NUMERICAL INTEGRATION IN HALF INFINITE
INTERVAL (SIMPSON'S 1/3 RULE)

C/067/A MSIMPA NUMERICAL INTEGRATION
(DOUBLE INTERVAL, SIMPSON'S 1/3 RULE)

C/067/B MSIMPB NUMERICAL INTEGRATION
(DOUBLE INTERVAL, SIMPSON'S 1/3 RULE)

C/068/A MGAUSA NUMERICAL INTEGRATION
(DOUBLE INTERVAL, GAUSS-LEGENDER FORMULA)

C/068/B MGAUSB NUMERICAL INTEGRATION
(DOUBLE INTERVAL, GAUSS-LEGENDER FORMULA)

D. 代数方程式

D/001/A CARDNA ALGEBRAIC EQUATION OF DEGREE 3 (CARDANO'S
METHOD)

D/001/B CARDNB ALGEBRAIC EQUATION OF DEGREE 3 (CARDANO'S
METHOD)

D/002/A FERRAA ALGEBRAIC EQUATION OF DEGREE 4 (FERRARI'S
METHOD)

D/002/B FERRAB ALGEBRAIC EQUATION OF DEGREE 4 (FERRARI'S
METHOD)

D/003/A BAIR1A ALGEBRAIC EQUATION (BAIRSTOW'S METHOD)

D/003/B BAIR1B ALGEBRAIC EQUATION (BAIRSTOW'S METHOD)

D/004/A REGFLA ALGEBRAIC EQUATION (REGULA-FALSI METHOD)

D/004/B REGFLB ALGEBRAIC EQUATION (REGULA-FALSI METHOD)

D/005/A CNWTNA ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS
(NEWTON-RAPHSON METHOD)

D/005/B CNWTNB ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS
(NEWTON-RAPHSON METHOD)

D/006/A JARATA ALGEBRAIC EQUATION (JARRATT'S MODIFIED
METHOD)

D/006/B JARATB ALGEBRAIC EQUATION (JARRATT'S MODIFIED
METHOD)

D/007/A CJARTA ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS
(JARAT'S METHOD)

D/007/B CJARTB ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS
(JARAT'S METHOD)

D/008/A CTRNCA TRANSCENDENTAL EQUATION WITH COMPLEX
COEFFICIENTS

D/008/B CTRNCB TRANSCENDENTAL EQUATION WITH COMPLEX
COEFFICIENTS

D/009/A NONLEA NON-LINEAR EQUATIONS

D/009/B NONLEB NON-LINEAR EQUATIONS

E. 連立一次方程式

E/001/A GAUSEA LINEAR EQUATIONS (GAUSS-SEIDEL METHOD)

E/001/B GAUSEB LINEAR EQUATIONS (GAUSS-SEIDEL METHOD)

E/002/A GAUELA LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)

E/002/B GAUELB LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)

E/003/A SWEIPA LINEAR EQUATIONS (SWEEP OUT METHOD)

E/003/B SWEIPB LINEAR EQUATIONS (SWEEP OUT METHOD)

E/004/A CSWEPA LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS
(SWEEP OUT METHOD)

E/004/B CSWEPB LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS
(SWEEP OUT METHOD)

E/005/A TRIDGA TRIDIAGONAL EQUATIONS (GAUSS'S ELIMINATION
METHOD)

E/006/A SIMEQA LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT
METHOD)

E/006/B SIMEQB LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT
METHOD)

E/007/A LA20RA THE SOLUTION OF SYSTEM OF NON-LINEAR
EQUATIONS

E/007/B LA20RB THE SOLUTION OF SYSTEM OF NON-LINEAR
EQUATIONS

F 常微分方程式

F/001/A RKGA ORDINARY DIFFERENTIAL EQUATION (RUNGE-KUTTA-GILL METHOD)
 F/001/B RKGB ORDINARY DIFFERENTIAL EQUATION (RUNGE-KUTTA-GILL METHOD)
 F/002/A SRKGA SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)
 F/002/B SRKGB SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)
 F/003/A SRKG2A SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD, WITH CHANGING INTERVAL AUTOMATICALLY)
 F/003/B SRKG2B SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD, WITH CHANGING INTERVAL AUTOMATICALLY)
 F/004/A HAMPCA SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMMING'S METHOD)
 F/004/B HAMPCB SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMMING'S METHOD)

G 行 例

G/001/A MADDA MATRIX ADDITION
 G/001/B MADDB MATRIX ADDITION
 G/002/A MSUBA MATRIX SUBTRACTION
 G/002/B MSUBB MATRIX SUBTRACTION
 G/003/A MMUL1A MATRIX MULTIPLICATION 1
 G/003/B MMUL1B MATRIX MULTIPLICATION 1
 G/004/A MMUL2A MATRIX MULTIPLICATION 2
 G/004/B MMUL2B MATRIX MULTIPLICATION 2
 G/005/A MTRNSA MATRIX TRANSPOSITION
 G/005/B MTRNSB MATRIX TRANSPOSITION
 G/006/A MUNITA UNIT MATRIX
 G/006/B MUNITB UNIT MATRIX
 G/007/A MPRTA MATRIX PRINT
 G/007/B MPRTB MATRIX PRINT
 G/008/A MDETA DETERMINANT
 G/008/B MDETB DETERMINANT
 G/009/A MINVA MATRIX INVERSION (SWEEP OUT METHOD)
 G/009/B MINVB MATRIX INVERSION (SWEEP OUT METHOD)
 G/010/A JACOBA EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
 G/010/B JACOB B EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
 G/013/A HERMTA EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX
 G/013/B HERMTB EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX
 G/014/A DABAA EIGENVALUES OF REAL MATRIX (DANILEVSKII'S METHOD)

G/014/B DABAB EIGENVALUES OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/015/A DANFWA EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/015/B DANEWB EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/016/A EVECA EIGENVECTORS OF REAL MATRIX (SWEEP OUT METHOD)
 G/016/B EVECB EIGENVECTORS OF REAL MATRIX (SWEEP OUT METHOD)
 G/017/A HOUSA EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/017/B HOUSB EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/018/A HESQRA EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (QR METHOD)
 G/018/B HESQRB EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (QR METHOD)
 G/019/A HOUS2A EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/019/B HOUS2B EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/020/A QREGNA EIGENVALUES OF REAL MATRIX (QR METHOD)
 G/020/B QREGNB EIGENVALUES OF REAL MATRIX (QR METHOD)
 G/021/A GAVECA EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/021/B GAVFCB EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/022/A MINV2A INVERSE MATRIX
 G/022/B MINV2B INVERSE MATRIX
 G/023/A GAVE2A RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/023/B GAVE2B RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/024/A CHSQRA EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (QR METHOD)
 G/024/B CHSQRB EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (QR METHOD)
 G/025/A THJACA EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (THRESHOLD JACOBI METHOD)
 G/025/B THJACB EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (THRESHOLD JACOBI METHOD)
 G/026/A HMTQRA EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)
 G/026/B HMTQRB EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)
 G/027/A GEIGNA THE GENERALIZED SYMMETRIC EIGENVALUE PROBLEMS, AX=LAMDA*BX (QR METHOD, INVERSE ITERATION)

*G/C27/B GEIGNB THE GENERALIZED SYMMETRIC EIGENVALUE PROBLEMS,
AX=LAMDA*BX (@R METHOD, INVERSE ITERATION)

H. フーリエ級数

H/0G1/B COFOB COSINE ANALYSIS OF FOURIER SERIES
H/002/B SIFOB SINE ANALYSIS OF FOURIER SERIES
H/003/B COASSR COSINE ASSEMBLY OF FOURIER SERIES
H/004/B SIASSB SINE ASSEMBLY OF FOURIER SERIES
H/005/A FFTA FAST FOURIER TRANSFORM
H/005/B FFTB FAST FOURIER TRANSFORM

I. 関数近似

I/001/B LSTS@B POLYNOMIAL APPROXIMATION BY LEAST SQUARE
I/002/B BSTAPB BEST APPROXIMATION
I/003/A LAGA LAGRANGE'S INTERPOLATION
I/003/B LAGB LAGRANGE'S INTERPOLATION
I/005/A CHEBA TCHEBYSHEV APPROXIMATION (COMPUTE THE
TCHEBYSHEV COEFFICIENTS)
I/005/B CHEBB TCHEBYSHEV APPROXIMATION (COMPUTE THE
TCHEBYSHEV COEFFICIENTS)
I/006/A TINTA TCHEBYSHEV APPROXIMATION (COMPUTE THE
FUNCTION VALUE BY USING TCHEBYSHEV
COEFFICIENTS)
I/006/B TINTB TCHEBYSHEV APPROXIMATION (COMPUTE THE
FUNCTION VALUE BY USING TCHEBYSHEV
COEFFICIENTS)
I/007/A SPLINA SPLINE INTERPOLATION
I/007/B SPLINB SPLINE INTERPOLATION
*I/008/A CHBAPA RATIONAL APPROXIMATION BY CHERYSHEV'S
POLYNOMIAL
*I/008/B CHBAPB RATIONAL APPROXIMATION BY CHEBYSHEV'S
POLYNOMIAL
*I/009/A CHBCFA BEST APPROXIMATION BY CHEBYSHEV'S POLYNOMIAL,
DISCRETE DATA
*I/009/B CHBCFB BEST APPROXIMATION BY CHEBYSHEV'S POLYNOMIAL,
DISCRETE DATA

*I/010/A CONFRA RATIONAL APPROXIMATION BY CONTINUED FRACTION,
DISCRETE DATA

*I/010/B CONFRB RATIONAL APPROXIMATION BY CONTINUED FRACTION,
DISCRETE DATA

J. 偏微分方程式

J/001/A ELPDEA PARTIAL DIFFERENTIAL EQUATION OF ELLIPTIC
TYPE
J/002/A PAPDEA PARTIAL DIFFERENTIAL EQUATION OF PARABOLIC
TYPE
J/002/B PAPDEB PARTIAL DIFFERENTIAL EQUATION OF PARABOLIC
TYPE
J/003/A HYPDEA PARTIAL DIFFERENTIAL EQUATION OF HYPERBOLIC
TYPE
J/003/B HYPDEB PARTIAL DIFFERENTIAL EQUATION OF HYPERBOLIC
TYPE

K. 積分方程式

K/001/A INEV2A VOLTERRA'S INTEGRAL EQUATION OF SECOND KIND
K/001/B INEV2B VOLTERRA'S INTEGRAL EQUATION OF SECOND KIND

Z. その他

Z/001/A POADDA ADDITION OF POLYNOMIALS
Z/001/B POADDB ADDITION OF POLYNOMIALS
Z/002/A POSUBA SUBTRACTION OF POLYNOMIALS
Z/002/B POSUBB SUBTRACTION OF POLYNOMIALS
Z/003/A POMULA MULTIPLICATION OF POLYNOMIALS
Z/003/B POMULB MULTIPLICATION OF POLYNOMIALS
Z/004/A PODIVA DIVISION OF POLYNOMIALS
Z/004/B PODIVB DIVISION OF POLYNOMIALS
Z/006/A NORRNA NORMAL RANDOM NUMBERS
Z/007/A POISNA POISSON RANDOM NUMBERS
Z/009/A COMBA BINOMIAL COEFFICIENTS
Z/009/B COMBB BINOMIAL COEFFICIENTS
*Z/010/A DAVIDA MINIMIZATION OF FUNCTION DERIVATIVE
*Z/010/B DAVIDB MINIMIZATION OF FUNCTION DERIVATIVE