

[05-05]九州大学大型計算機センター広報表紙奥付等

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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47年9月1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 $A_9/A_9/A_9/A_9 \times \times \times \times$ A:英字, 9:数字, X:英字または数字
 ① ② ③ ④

- 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ピング 2.ダンプ 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、帰零プログラム 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	3.原子核
		Z その他	

1.2 表の説明

1) ファイル名 表中ファイル名とあるのは登録されているファイルの名前を示します。

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. L I B	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. T E S T	;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

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	10	F4/QU/F/GSKEND	LINEAR EQUATION (GAUSS-SEIDEL METHOD)	P
*57	C2/UC/F/GRAEFS	ALGEBRAIC EQUATION OF HIGHER ORDER (GRAEFFE MODIFY METHOD)	PT	46	G1/QU/Z/CNTGTR	ANALYSIS OF 2*2 CONTINGENCY TABLE	AE
*58	C2/UC/F/GRAEFD	ALGEBRAIC EQUATION OF HIGHER ORDER (GRAEFFE MODIFY METHOD)	PT	35	G5/UC/F/KUNIRN	UNIFORM RANDOM NUMBER GENERATOR	P
7	C3/QU/F/CNDS	CUMULATIVE NORMAL DISTRIBUTION FUNCTION	P	*60	G6/QU/Z/MMKA	NORMAL MULTIVARIATE MULTIPLE REGRESSION ANALYSIS INVOLVING MULTIPLICITY OF POPULATIONS	AE
8	C3/QU/F/KCND5	INVERSE FUNCTION OF CUMULATIVE NORMAL DISTRIBUTION FUNCTION	P	45	G9/QU/Z/EIYGO	STATISTICAL ANALYSIS OF NUTRITIONAL SURVEY DATA	AE
16	C3/QU/F/GAMMAD	GAMMA FUNCTION	P	*55	H1/UC/Z/MINIMX	MINIMAX SOLUTION TO OVERDETERMINED LINEAR SYSTEMS	AE
17	C3/QU/F/PRESNL	GENERALIZED FRESNEL INTEGRAL	P	*56	H1/UC/F/MINMAX	MINIMAX SOLUTION TO OVERDETERMINED LINEAR SYSTEMS	PT
22	C3/QU/F/DRPGMA	RECIPROCAL OF GAMMA FUNCTION	P	6	H3/QU/Z/SUCPM	CALCULATION OF CPM	AE
*59	C3/QU/F/DERF	ERROR FUNCTION	PT	49	I3/UC/F/PTH	INPUT FOR PTR	P
34	C7/QU/F/POWELL	MINIMIZATION OF A FUNCTION	P	51	I6/UC/F/FRDWT	READ/WRITE ROUTINE FOR GENERAL FILE	P
15	D1/QU/F/ROMBER	ROMBERG'S INTEGRATION WITH ERROR CONTROL	P	*54	I6/QU/F/FLDATA	READ/WRITE ROUTINE FOR D.T. FILE WITH ALGOL-H TYPE FORMAT	PT
18	D1/QU/F/CGJW	COEFFICIENTS OF GAUSS-JACOBI QUADRATURE FORMULA	P	2	I9/QU/F/INLISI	INPUT, NON-FORMAT	P
19	D1/QU/F/CGLG	COEFFICIENTS OF GAUSS-LAGUERRE QUADRATURE FORMULA	P	*53	I9/QU/F/INDATA	READ ROUTINE WITH ALGOL-H TYPE FORMAT	PT
20	D1/QU/F/ROMBGS	NUMERICAL INTEGRATION USING ROMBERG'S ALGORITHM	P	13	J0/QU/F/MPICS	PRINT OF COMPLEX MATRIX	P
21	D1/QU/F/ROMBGD	NUMERICAL INTEGRATION USING ROMBERG'S ALGORITHM	P	14	J0/QU/F/MXPTS	PRINT OF REAL MATRIX	P
23	D6/UC/F/FFTC5	FAST FOURIER TRANSFORM (COMPLEX TRANSFORM)	P	42	J0/QU/F/RFFORM	OUTPUT WITHOUT FORMAT	P
24	D6/UC/F/FFTRS	FAST FOURIER TRANSFORM (REAL TRANSFORM)	P	47	J0/UC/F/GRAPH	PRINT OF GRAPH	P
1	F2/QU/F/HER4	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX	P	48	J0/UC/F/QDLIST	PRINT OF INPUT DATA	P
11	F2/QU/F/SQRS	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	P	52	J0/UC/F/LFTTER	PRINT OF LETTER	P
12	F2/QU/F/SQRD	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	P	61	K2/UC/F/NRITOP	BIT OPERATION FUNCTION FOR FORTRAN USER	P
30	F2/QU/F/SQR0S	EIGENVALUE OF SYMMETRIC MATRIX (QR METHOD)	P	62	Q9/UC/Z/CONTRL	CONTROL	P
31	F2/QU/F/SQR0D	EIGENVALUE OF SYMMETRIC MATRIX (QR METHOD)	P	63	Q9/UC/Z/EDITOR	EDITOR	P
32	F2/QU/F/HQR0S	EIGENVALUE OF HERMITIAN MATRIX (QR METHOD)	P	25	Y3/UC/Z/AA01	ELASTIC SCATTERING ANALYSIS WITH NUCLEAR OPTICAL MODEL (ELASTIC)	AE
33	F2/QU/F/HQR0D	EIGENVALUE OF HERMITIAN MATRIX (QR METHOD)	P	26	Y3/UC/Z/AA02	DWA ANALYSIS OF DIRECT NUCLEAR REACTION 1 (DWA1)	AE
43	F2/QU/F/HQRS	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	P	27	Y3/UC/Z/DR01	CLEBSCH-GORDAN COEFFICIENT	A1
44	F2/QU/F/HQRD	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	P	28	Y3/UC/Z/DR02	RACAH COEFFICIENT	A1
3	F4/QU/F/SWPMLF	INVERSE MATRIX AND LINEAR EQUATION (USING DISK OR AT)	P	29	Y3/UC/Z/DR03	NINE-J SYMBOL	A1
9	F4/QU/F/GSRENS	LINEAR EQUATION (GAUSS-SEIDEL METHOD)	P	36	Y3/UC/Z/AA03	DWA ANALYSIS OF DIRECT NUCLEAR REACTION 2 (DWA2)	AE
				37	Y3/UC/Z/BA02	NUCLEON-NUCLEON SCATTERING BY R-SPACE POTENTIAL (NNS)	AE
				38	Y3/UC/Z/CA01	VARIABLE METRIC METHOD FOR MINIMIZATION	A1
				39	Y3/UC/Z/DA02	HCS EQUATION	A1
				40	Y3/UC/Z/DA03	RANDOM PHASE APPROXIMATION (RPA)	AE
				41	Y3/UC/Z/DR05	MATRIX ELEMENTS OF TENSOR FORCE BETWEEN HARMONIC OSCILLATOR WAVE FUNCTIONS	A1
				5	I1/QU/Z/DYSTAT	DYSTAT-DYNAMIC STORAGE ALLOCATION LANGUAGE IN FORTRAN	A2

2. 富士通作成 SSL FOTRAN

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6版 (資料番号230/60-301~309-001-6) 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/031/S	QKKEES	COMPLETE ELLIPTIC INTEGRALS OF THE FIRST AND THE SECOND KIND	
B/001/S	CFL11S	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST KIND		*B/031/D	QKKEED	COMPLETE ELLIPTIC INTEGRALS OF THE FIRST AND THE SECOND KIND	
B/002/S	CEL12S	COMPLETE ELLIPTIC INTEGRAL OF THE SECOND KIND		*B/032/S	THETAS	ELLIPTIC FUNCTION, THETE FUNCTION	
B/003/D	EXPGD	EXPONENTIAL INTEGRAL 1		*B/032/D	THETAD	ELLIPTIC FUNCTION, THETE FUNCTION	
B/004/S	GAMANS	GAMMA FUNCTION		*B/033/S	EJARIS	ELLIPTIC FUNCTION, JACOBI'S F-FUNCTION	
B/005/S	GAMA1E	GAMMA FUNCTION		*B/033/D	EJARID	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	DIFLAG	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)	
B/009/D	FRESU	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	BESJ0D	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	BFSY0D	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	BESI0D	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	BESK0D	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	BEK1S	POWER SERIES		C/011/D	GAS10D	NUMERICAL INTEGRATION (10-POINT GAUSSIAN FORMULA)	
B/021/D	BEK1D	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	BFSJND	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	BFSKND	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	EXPG2S	EXPONENTIAL INTEGRAL 2					
B/027/D	EXPG2D	EXPONENTIAL INTEGRAL 2					
*B/028/S	HERMIS	HERMITE POLYNOMIALS					
*B/028/D	HERMID	HERMITE POLYNOMIALS					
*B/029/S	LAGUES	LAGUERRE POLYNOMIALS					
*B/029/D	LAGUED	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)
 C/055/D GSH22D NUMERICAL INTEGRATION (22-POINT GAUSS-HERMITE FORMULA)
 C/056/D GSH23D NUMERICAL INTEGRATION (23-POINT GAUSS-HERMITE FORMULA)
 C/057/D GSH24D NUMERICAL INTEGRATION (24-POINT GAUSS-HERMITE FORMULA)
 C/058/D GSH25D NUMERICAL INTEGRATION (25-POINT GAUSS-HERMITE FORMULA)
 C/059/D GSH26D NUMERICAL INTEGRATION (26-POINT GAUSS-HERMITE FORMULA)
 C/060/D GSH27D NUMERICAL INTEGRATION (27-POINT GAUSS-HERMITE FORMULA)
 C/061/D GSH28D NUMERICAL INTEGRATION (28-POINT GAUSS-HERMITE FORMULA)
 C/062/D GSH29D NUMERICAL INTEGRATION (29-POINT GAUSS-HERMITE FORMULA)
 C/063/D GSH30D NUMERICAL INTEGRATION (30-POINT GAUSS-HERMITE FORMULA)
 C/064/D GSH31D NUMERICAL INTEGRATION (31-POINT GAUSS-HERMITE FORMULA)
 *C/065/S SIMP2S NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT WITH NON-EQUAL INTERVAL)
 *C/065/D SIMP2D NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT WITH NON-EQUAL INTERVAL)
 *C/066/S SIMPFS NUMERICAL INTEGRATION IN HALF INFINITE INTERVAL (SIMPSON'S 1/3 RULE)
 *C/066/D SIMPD NUMERICAL INTEGRATION IN HALF INFINITE INTERVAL (SIMPSON'S 1/3 RULE)
 *C/067/S MSIMPS NUMERICAL INTEGRATION (DOUBLE INTERVAL, SIMPSON'S 1/3 RULE)
 *C/067/D MSIMPD NUMERICAL INTEGRATION (DOUBLE INTERVAL, SIMPSON'S 1/3 RULE)
 *C/068/S MGAUSS NUMERICAL INTEGRATION (DOUBLE INTERVAL, GAUSS-LEGENDRE FORMULA)
 *C/068/D MGAUSD NUMERICAL INTEGRATION (DOUBLE INTERVAL, GAUSS-LEGENDRE FORMULA)

D. 代数方程式

D/001/S CARDNS ALGEBRAIC EQUATION OF DEGREE 3 (CARDANO'S METHOD)
 D/001/D CARDND ALGEBRAIC EQUATION OF DEGREE 3 (CARDANO'S METHOD)
 D/002/S FERRAS ALGEBRAIC EQUATION OF DEGREE 4 (FERRARI'S METHOD)
 D/002/D FERRAD ALGEBRAIC EQUATION OF DEGREE 4 (FERRARI'S METHOD)
 D/003/S BAIR1S ALGEBRAIC EQUATION (BAIRSTOW'S METHOD)
 D/003/D BAIR1D ALGEBRAIC EQUATION (BAIRSTOW'S METHOD)

D/004/S REGFLS ALGEBRAIC EQUATION (REGULA-FALSI METHOD)
 D/004/D REGFLD ALGEBRAIC EQUATION (REGULA-FALSI METHOD)
 D/005/S CNWINS ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (NEWTON-RAPHSON METHOD)
 D/005/D CNWIND ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (NEWTON-RAPHSON METHOD)
 D/006/S JARATS ALGEBRAIC EQUATION (JARRATT'S MODIFIED METHOD)
 D/006/D JARATD ALGEBRAIC EQUATION (JARRATT'S MODIFIED METHOD)
 *D/007/S CJARTS ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (JARAT'S METHOD)
 *D/007/D CJARTD ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (JARAT'S METHOD)
 *D/008/S CTRNCS TRANSCENDENTAL EQUATION WITH COMPLEX COEFFICIENTS
 *D/008/D CTRNCD TRANSCENDENTAL EQUATION WITH COMPLEX COEFFICIENTS
 *D/009/S NONLES NON-LINEAR EQUATIONS
 *D/009/D NONLED NON-LINEAR EQUATIONS

E. 連立一次方程式

E/001/S GAUSES LINEAR EQUATIONS (GAUSS-SEIDEL METHOD)
 E/001/D GAUSED LINEAR EQUATIONS (GAUSS-SEIDEL METHOD)
 E/002/S GAUELS LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)
 E/002/D GAUFLD LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)
 E/003/S SWEFPS LINEAR EQUATIONS (SWEEP OUT METHOD)
 E/003/D SWEFPD LINEAR EQUATIONS (SWEEP OUT METHOD)
 E/004/S CSWFPS LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS (SWEEP OUT METHOD)
 E/004/D CSWFPD LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS (SWEEP OUT METHOD)
 F/005/S TRINGS TRIDIAGONAL EQUATIONS (GAUSS'S ELIMINATION METHOD)
 F/006/S SIMEQS LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)
 F/006/D SIMEQD LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)
 *E/007/S LA2ORS THE SOLUTION OF SYSTEM OF NON-LINEAR EQUATIONS
 *E/007/D LA2ORD 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/002/S SKGS SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)

F/002/D SRKGU SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)
 F/003/S SRKG2S SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD, WITH CHANGING INTERVAL AUTOMATICALLY)
 F/003/D SRKG2D SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD, WITH CHANGING INTERVAL AUTOMATICALLY)
 F/004/S HAMPCS SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMMING'S METHOD)
 F/004/D HAMPCD SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMMING'S METHOD)

G. 行 列

G/001/S MADD5 MATRIX ADDITION
 G/001/D MADDU MATRIX ADDITION
 G/002/S MSUBS MATRIX SUBTRACTION
 G/002/D MSUBD MATRIX SUBTRACTION
 G/003/S MMUL1S MATRIX MULTIPLICATION 1
 G/003/D MMUL1D MATRIX MULTIPLICATION 1
 G/004/S MMUL2S MATRIX MULTIPLICATION 2
 G/004/D MMUL2D MATRIX MULTIPLICATION 2
 G/005/S MTRNS5 MATRIX TRANSPOSITION
 G/005/D MTRNSD MATRIX TRANSPOSITION
 G/006/S MUNI1S UNIT MATRIX
 G/006/D MUNI1D UNIT MATRIX
 G/007/S MPRTS MATRIX PRINT
 G/007/D MPRTD MATRIX PRINT
 G/008/S MDETS DETERMINANT
 G/008/D MDETD DETERMINANT
 G/009/S MINVS MATRIX INVERSION (SWEEP OUT METHOD)
 G/009/D MINVD MATRIX INVERSION (SWEEP OUT METHOD)
 G/010/S JACOBS EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
 G/010/D JACOB D EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
 G/013/S HERMTS EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX
 G/013/D HERM D EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX
 G/014/S DABAS EIGENVALUES OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/014/D DABAD EIGENVALUES OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/015/S DANEW S EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/015/D DANEW D EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)
 G/016/S EVECS EIGENVECTORS OF REAL MATRIX (SWEEP OUT METHOD)

G/016/D EVECD EIGENVECTORS OF REAL MATRIX (SWEEP OUT METHOD)
 G/017/S HOUSS EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/017/D HOU5D EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/018/S HESORS EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (QR METHOD)
 G/018/D HESORD EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (QR METHOD)
 G/019/S HOU52S EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/019/D HOU52D EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
 G/020/S QKEGNS EIGENVALUES OF REAL MATRIX (QR METHOD)
 G/020/D QKEGND EIGENVALUES OF REAL MATRIX (QR METHOD)
 G/021/S GAVFCS EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/021/D GAVFCD EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/022/S MINV2S INVERSE MATRIX
 G/022/D MINV2D INVERSE MATRIX
 G/023/S GAVF2S RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/023/D GAVF2D RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
 G/024/S CHSORS EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (QR METHOD)
 G/024/D CHSORD EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (QR METHOD)
 G/025/S THJACS EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (THRESHOLD JACOBI METHOD)
 G/025/D THJACD EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (THRESHOLD JACOBI METHOD)
 *G/026/S HMTORS EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)
 *G/026/D HMTORD EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)
 *G/027/S GEIGNS THE GENERALIZED SYMMETRIC EIGENVALUE PROBLEMS, AX=LAMDA*BX (QR METHOD, INVERSE ITERATION)
 *G/027/D GEIGND THE GENERALIZED SYMMETRIC EIGENVALUE PROBLEMS, AX=LAMDA*BX (QR METHOD, INVERSE ITERATION)
 H. フーリエ級数
 H/001/D CUFOD COSINE ANALYSIS OF FOURIER SERIES
 H/002/D SIFOD SINE ANALYSIS OF FOURIER SERIES
 H/003/D CUASSD 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 LSTSQD POLYNOMIAL APPROXIMATION BY LEAST SQUARE
I/002/D BSTAPD 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
*1/008/S CHBAPS RATIONAL APPROXIMATION BY CHEBYSHEV'S
POLYNOMIAL
*1/008/D CHBAPD RATIONAL APPROXIMATION BY CHEBYSHEV'S
POLYNOMIAL
*1/009/S CHBCHS BEST APPROXIMATION BY CHEBYSHEV'S POLYNOMIAL,
DISCRETE DATA
*1/009/D CHBCFD BEST APPROXIMATION BY CHEBYSHEV'S POLYNOMIAL,
DISCRETE DATA
*1/010/S CONFKS RATIONAL APPROXIMATION BY CONTINUED FRACTIONS,
DISCRETE DATA
*1/010/D CONFKD RATIONAL APPROXIMATION BY CONTINUED FRACTIONS,
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 HYPDES PARTIAL DIFFERENTIAL EQUATION OF HYPERBOLIC
TYPE
J/003/D HYPDED 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 PUSUBS SUBTRACTION OF POLYNOMIALS
Z/002/D PUSUBD SUBTRACTION OF POLYNOMIALS
Z/003/S PUMULS MULTIPLICATION OF POLYNOMIALS
Z/003/D PUMULD MULTIPLICATION OF POLYNOMIALS
Z/004/S PUODVS DIVISION OF POLYNOMIALS
Z/004/D PUODVD DIVISION OF POLYNOMIALS
Z/006/S NURRNS 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、SYS1.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4版 (資料番号230/60-301~309-002-4) 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				C/002/A	SIMPA	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)	
	B/001/A	CELI1A	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST KIND	C/002/B	SIMPB	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)	
	B/002/A	CELI2A	COMPLETE ELLIPTIC INTEGRAL OF THE SECOND KIND	C/003/A	GAUSSA	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)	
	B/003/B	EXPGB	EXPONENTIAL INTEGRAL 1	C/003/B	GAUSSB	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)	
	B/004/A	GAMANA	GAMMA FUNCTION	C/004/B	GAS3B	NUMERICAL INTEGRATION (3-POINT GAUSSIAN FORMULA)	
	B/005/A	GAMA1A	GAMMA FUNCTION	C/005/B	GAS4B	NUMERICAL INTEGRATION (4-POINT GAUSSIAN FORMULA)	
	B/008/A	LNKA1A	LOG(N!)	C/006/B	GAS5B	NUMERICAL INTEGRATION (5-POINT GAUSSIAN FORMULA)	
	B/008/B	LNKA1B	LOG(N!)	C/007/B	GAS6B	NUMERICAL INTEGRATION (6-POINT GAUSSIAN FORMULA)	
	B/009/B	FRESB	FRESNEL'S INTEGRAL	C/008/B	GAS7B	NUMERICAL INTEGRATION (7-POINT GAUSSIAN FORMULA)	
	B/010/B	SIB	SINE INTEGRAL	C/009/B	GAS8B	NUMERICAL INTEGRATION (8-POINT GAUSSIAN FORMULA)	
	B/011/B	CIB	COSINE INTEGRAL	C/010/B	GAS9B	NUMERICAL INTEGRATION (9-POINT GAUSSIAN FORMULA)	
	B/012/B	BESJOB	BESSEL FUNCTION J0(X)	C/011/B	GAS10B	NUMERICAL INTEGRATION (10-POINT GAUSSIAN FORMULA)	
	B/013/B	BESJ1B	BESSEL FUNCTION J1(X)	C/012/B	GAS12B	NUMERICAL INTEGRATION (12-POINT GAUSSIAN FORMULA)	
	B/014/B	BESY0B	BESSEL FUNCTION Y0(X)	C/013/B	GAS16B	NUMERICAL INTEGRATION (16-POINT GAUSSIAN FORMULA)	
	B/015/B	BESY1B	BESSEL FUNCTION Y1(X)	C/014/B	GAS24B	NUMERICAL INTEGRATION (24-POINT GAUSSIAN FORMULA)	
	B/016/B	BESI0B	BESSEL FUNCTION I0(X)	C/015/B	GAS32B	NUMERICAL INTEGRATION (32-POINT GAUSSIAN FORMULA)	
	B/017/B	BESI1B	BESSEL FUNCTION I1(X)	C/016/A	SIMP1A	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)	
	B/018/B	BESK0B	BESSEL FUNCTION K0(X)	C/016/B	SIMP1B	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)	
	B/019/B	BESK1B	BESSEL FUNCTION K1(X)	C/017/A	GSL4A	NUMERICAL INTEGRATION (4-POINT GAUSS-LAGUERRE FORMULA)	
	B/020/B	LEGDB	LEGENDRE'S POLYNOMIAL	C/018/A	GSL5A	NUMERICAL INTEGRATION (5-POINT GAUSS-LAGUERRE FORMULA)	
	B/021/A	BEK1A	POWER SERIES	C/019/A	GSL6A	NUMERICAL INTEGRATION (6-POINT GAUSS-LAGUERRE FORMULA)	
	B/021/B	BEK1B	POWER SERIES	C/020/A	GSL7A	NUMERICAL INTEGRATION (7-POINT GAUSS-LAGUERRE FORMULA)	
	B/022/A	BESJNA	BESSEL FUNCTION JN(X)	C/021/A	GSL8A	NUMERICAL INTEGRATION (8-POINT GAUSS-LAGUERRE FORMULA)	
	B/022/B	BESJNB	BESSEL FUNCTION JN(X)	C/022/A	GSL9A	NUMERICAL INTEGRATION (9-POINT GAUSS-LAGUERRE FORMULA)	
	B/023/A	BESYNA	BESSEL FUNCTION YN(X)				
	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	EXP62A	EXPONENTIAL INTEGRAL 2				
	B/027/B	EXP62B	EXPONENTIAL INTEGRAL 2				
C. 微積分							
C/001/A	DIFLAA	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)					
C/001/B	DIFLAB	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)					

C/023/A GSL10A NUMERICAL INTEGRATION
(10-POINT GAUSS-LAGUERRE FORMULA)
C/023/B GSL10B NUMERICAL INTEGRATION
(10-POINT GAUSS-LAGUERRE FORMULA)
C/024/A GSL11A NUMERICAL INTEGRATION
(11-POINT GAUSS-LAGUERRE FORMULA)
C/024/B GSL11B NUMERICAL INTEGRATION
(11-POINT GAUSS-LAGUERRE FORMULA)
C/025/A GSL12A NUMERICAL INTEGRATION
(12-POINT GAUSS-LAGUERRE FORMULA)
C/025/B GSL12B NUMERICAL INTEGRATION
(12-POINT GAUSS-LAGUERRE FORMULA)
C/026/A GSL13A NUMERICAL INTEGRATION
(13-POINT GAUSS-LAGUERRE FORMULA)
C/026/B GSL13B NUMERICAL INTEGRATION
(13-POINT GAUSS-LAGUERRE FORMULA)
C/027/A GSL14A NUMERICAL INTEGRATION
(14-POINT GAUSS-LAGUERRE FORMULA)
C/027/B GSL14B NUMERICAL INTEGRATION
(14-POINT GAUSS-LAGUERRE FORMULA)
C/028/A GSL15A NUMERICAL INTEGRATION
(15-POINT GAUSS-LAGUERRE FORMULA)
C/028/B GSL15B NUMERICAL INTEGRATION
(15-POINT GAUSS-LAGUERRE FORMULA)
C/029/B GSL16B NUMERICAL INTEGRATION
(16-POINT GAUSS-LAGUERRE FORMULA)
C/030/B GSL17B NUMERICAL INTEGRATION
(17-POINT GAUSS-LAGUERRE FORMULA)
C/031/B GSL18B NUMERICAL INTEGRATION
(18-POINT GAUSS-LAGUERRE FORMULA)
C/032/B GSL19B NUMERICAL INTEGRATION
(19-POINT GAUSS-LAGUERRE FORMULA)
C/033/B GSL20B NUMERICAL INTEGRATION
(20-POINT GAUSS-LAGUERRE FORMULA)
C/034/B GSL21B NUMERICAL INTEGRATION
(21-POINT GAUSS-LAGUERRE FORMULA)
C/035/B GSL22B NUMERICAL INTEGRATION
(22-POINT GAUSS-LAGUERRE FORMULA)
C/036/B GSL23B NUMERICAL INTEGRATION
(23-POINT GAUSS-LAGUERRE FORMULA)
C/037/B GSL24B NUMERICAL INTEGRATION
(24-POINT GAUSS-LAGUERRE FORMULA)
C/038/B GSL25B NUMERICAL INTEGRATION
(25-POINT GAUSS-LAGUERRE FORMULA)
C/039/B GSL26B NUMERICAL INTEGRATION
(26-POINT GAUSS-LAGUERRE FORMULA)
C/040/A GSH7A NUMERICAL INTEGRATION
(7-POINT GAUSS-HERMITE FORMULA)
C/041/A GSH8A NUMERICAL INTEGRATION
(8-POINT GAUSS-HERMITE FORMULA)

C/042/A GSH9A NUMERICAL INTEGRATION
(9-POINT GAUSS-HERMITE FORMULA)
C/043/A GSH10A NUMERICAL INTEGRATION
(10-POINT GAUSS-HERMITE FORMULA)
C/043/B GSH10B NUMERICAL INTEGRATION
(10-POINT GAUSS-HERMITE FORMULA)
C/044/A GSH11A NUMERICAL INTEGRATION
(11-POINT GAUSS-HERMITE FORMULA)
C/044/B GSH11B NUMERICAL INTEGRATION
(11-POINT GAUSS-HERMITE FORMULA)
C/045/A GSH12A NUMERICAL INTEGRATION
(12-POINT GAUSS-HERMITE FORMULA)
C/045/B GSH12B NUMERICAL INTEGRATION
(12-POINT GAUSS-HERMITE FORMULA)
C/046/A GSH13A NUMERICAL INTEGRATION
(13-POINT GAUSS-HERMITE FORMULA)
C/046/B GSH13B NUMERICAL INTEGRATION
(13-POINT GAUSS-HERMITE FORMULA)
C/047/A GSH14A NUMERICAL INTEGRATION
(14-POINT GAUSS-HERMITE FORMULA)
C/047/B GSH14B NUMERICAL INTEGRATION
(14-POINT GAUSS-HERMITE FORMULA)
C/048/A GSH15A NUMERICAL INTEGRATION
(15-POINT GAUSS-HERMITE FORMULA)
C/048/B GSH15B NUMERICAL INTEGRATION
(15-POINT GAUSS-HERMITE FORMULA)
C/049/B GSH16B NUMERICAL INTEGRATION
(16-POINT GAUSS-HERMITE FORMULA)
C/050/B GSH17B NUMERICAL INTEGRATION
(17-POINT GAUSS-HERMITE 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)

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 CNW1NA ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS
(NEWTON-RAPHSON METHOD)
D/005/B CNW1NB 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)

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 SWEEPA LINEAR EQUATIONS (SWEEP OUT METHOD)
E/003/B SWEEPB 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)

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 HAMP1A SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMMING'S METHOD)
F/004/B HAMP1B SYSTEM OF SIMULTANEOUS ORDINARY DIFFERENTIAL EQUATIONS (HAMMING'S METHOD)

G. 行列

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 JACORA EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
G/010/B JACORB 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)

