[04_06]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

従来、ライブラリの分類は、富士通提供のＳＳＬも、利用者提供のライブラリもまとめて分類していましたが、今後、これらを別々に分類することになりました。利用者提供のライブラリは、従来のＩＤコードで分類しますが、ＳＳＬは富士通が使用している分類コードをそのまゝ使用します。

なお、ライブラリ一覧表は、今後、広報で毎号掲載することになりましたので、参照してください。

1．九州大学作成

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　Ａ９／ＡＡ／Ａ／Ａ×××××　　Ａ：英字，９：数字，×：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.照合およびまぜあわせ
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　デバッギングルーチン	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、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
		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。
Ｐ……Ｐ．ＬＩＢ（ＲＢ形式）　ＰＴ…Ｐ．ＬＩＢ．ＴＥＳＴ（ＲＢ形式。試用期間中）
Ａ……Ａ．ＬＩＢ（ＲＢ形式）　ＡＥ…Ａ．ＬＩＢ．ＥＢ（ＥＢ形式）
Ｄ……ＤＹＳＴＡＬ（ＲＢ形式）　Ｑ…Ｑ．ＬＩＢ　（ＲＢ形式）

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であることを示します。

昭和46年11月20日現在

登録番号	IDコード	題目	ファイル名
4	C2/QU/F/SANJI	3-DEGREE ALGEBRAIC EQUATION WITH COMPLEX NUMBER COEFFICIENT	P
7	C3/QU/F/CNDS	CUMULATIVE NORMAL DYSTRIBUTION FUNCTION	P
8	C3/QU/F/RCNDS	INVERSE FUNCTION OF CUMULATIVE NORMAL DISTRIBUTION FUNCTION	P
16	C3/QU/F/GAMMAD	GAMMA FUNCTION	P
17	C3/QU/F/PRESNL	GENERALIZED FRESNEL INTEGRAL	P
22	C3/QU/F/DRPGMA	RECIPROCAL OF GAMMA FUNCTION	P
*34	C7/QU/F/POWELL	MINIMIZATION OF A FUNCTION	PT
15	D1/QU/F/ROMBER	ROMBERG'S INTEGRATION WITH ERROR CONTROL	P
18	D1/QU/F/CGJQ	COEFFICIENTS OF GAUSS-JACOBI QUADRATURE FORMULA	P
19	D1/QU/F/CGLQ	COEFFICIENTS OF GAUSS-LAGUERRE QUADRATURE FORMULA	P
20	D1/QU/F/ROMBGS	NUMERICAL INTEGRATION USING ROMBERG'S ALGORITHM	P
21	D1/QU/F/ROMBGD	NUMERICAL INTEGRATION USING ROMBERG'S ALGORITHM	P
23	D6/QC/F/FFTCS	FAST FOURIER TRANSFORM (COMPLEX TRANSFORM)	P
24	D6/QC/F/FFTRS	FAST FOURIER TRANSFORM (REAL TRANSFORM)	P
1	F2/QU/F/HER4	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX	P
11	F2/QU/F/SQRS	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	P
12	F2/QU/F/SQRD	EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (QR METHOD)	P
*30	F2/QU/F/SQROS	EIGENVALUE OF SYMMETRIC MATRIX(QR METHOD)	PT
*31	F2/QU/F/SQROD	EIGENVALUE OF SYMMETRIC MATRIX(QR METHOD)	PT
*32	F2/QU/F/HQROS	EIGENVALUE OF HERMITIAN MATRIX(QR METHOD)	PT
*33	F2/QU/F/HQROD	EIGENVALUE OF HERMITIAN MATRIX(QR METHOD)	PT
*43	F2/QU/F/HQRS	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	PT
*44	F2/QU/F/HQRD	EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX (QR METHOD)	PT
3	F4/QU/F/SWPMLE	INVERSE MATRIX AND LINEAR EQUATION (USING DISK OR MT)	P
9	F4/QU/F/GSRENS	LINEAR EQUATION (GAUSS-SEIDEL METHOD)	P
10	F4/QU/F/GSREND	LINEAR EQUATION (GAUSS-SEIDEL METHOD)	P
*46	G1/QU/Z/CNTGTB	ANALYSIS OF 2*2 CONTINGENCY TABLE	AE
*35	G5/QC/F/KUNIRN	UNIFORM RANDOM NUMBER GENERATOR	PT
*45	G9/QU/Z/EIYOO	STATISTICAL ANALYSIS OF NUTRITIONAL SURVEY DATA	AE
6	H3/QU/Z/SUCPM	CALCULATION OF CPM	AE
49	I5/QC/F/PTR	INPUT FOR PTR	Q
51	I6/QC/F/FRDWT	READ/WRITE ROUTINE FOR GENERAL FILE	Q
2	I9/QU/F/INLIST	INPUT, NON-FORMAT	P
13	J0/QU/F/MPTCS	PRINT OF COMPLEX MATRIX	P
14	J0/QU/F/MXPTS	PRINT OF REAL MATRIX	P
*42	J0/QU/F/REFORM	OUTPUT WITHOUT FORMAT	PT
47	J0/QC/F/GRAPH	PRINT OF GRAPH	Q
48	J0/QC/F/QDLIST	PRINT OF INPUT DATA	Q
50	J0/QC/F/VLIM	PAGE SET AND PRINT OF TITLE	Q
52	J0/QC/F/LETTER	PRINT OF LETTER	Q
25	Y3/QC/Z/AA01	ELASTIC SCATTERING ANALYSIS WITH NUCLEAR OPTICAL MODEL (ELASTC)	AE
26	Y3/QC/Z/AA02	DWBA ANALYSIS OF DIRECT NUCLEAR REACTION 1 (DWBA1)	AE
27	Y3/QC/Z/DB01	CLEBSCH-GORDAN COEFFICIENT	A
28	Y3/QC/Z/DB02	RACAH COEFFICIENT	A
29	Y3/QC/Z/DB03	NINE-J SYMBOL	A
*36	Y3/QC/Z/AA03	DWBA ANALYSIS OF DIRECT NUCLEAR REACTION 2 (DWBA2)	AE
*37	Y3/QC/Z/BA02	NUCLEON-NUCLEON SCATTERING BY R-SPACE POTENTIAL (NNS)	AE
*38	Y3/QC/Z/CA01	VARIABLE METRIC METHOD FOR MINIMIZATION	A
*39	Y3/QC/Z/DA02	BCS EQUATION	A
*40	Y3/QC/Z/DA03	RANDOM PHASE APPROXIMATION (RPA)	AE
*41	Y3/QC/Z/DB05	MATRIX ELEMENTS OF TENSOR FORCE BETWEEN HARMONIC OSCILLATOR WAVE FUNCTIONS	A
5	Z1/QU/Z/DYSTAL	DYSTAL-DYNAMIC STORAGE ALLOCATION LANGUAGE IN FORTRAN	D

2．富士通作成　SSL　FORTRAN

昭和46年11月20日

これらのプログラムは、F. S SLIBのファイルに登録されています。

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FORTRAN編第6版（資料番号 230／60－301～309－001－6）です。

分類コード	呼び出し名	題目
B．一般、特殊関数		
B/001/S	CEL1S	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST KIND
B/002/S	CEL2S	COMPLETE ELLIPTIC INTEGRAL OF THE SECOND KIND
B/003/D	EXPGD	EXPONENTIAL INTEGRAL 1
B/004/S	GAMAS	GAMMA FUNCTION
B/005/S	GAMA1S	GAMMA FUNCTION
B/008/S	LNKA1S	LOG(N!)
B/006/D	LNKA1D	LOG(N!)
B/009/D	FRESD	FRESNEL'S INTEGRAL
B/010/D	SID	SINE INTEGRAL
B/011/D	CID	COSINE INTEGRAL
B/012/D	BESJ0D	BESSEL FUNCTION J0(X)
B/013/D	BESJ1D	BESSEL FUNCTION J1(X)
B/014/D	BESY0D	BESSEL FUNCTION Y0(X)
B/015/D	BESY1D	BESSEL FUNCTION Y1(X)
B/016/D	BESI0D	BESSEL FUNCTION I0(X)
B/017/D	BESI1D	BESSEL FUNCTION I1(X)
B/018/D	BESK0D	BESSEL FUNCTION K0(X)
B/019/D	BESK1D	BESSEL FUNCTION K1(X)
B/020/D	LEGDD	LEGENDRE'S POLYNOMIAL
B/021/S	BEKIS	POWER SERIES
B/021/D	BEKID	POWER SERIES
B/022/S	BESJNS	BESSEL FUNCTION JN(X)
B/022/D	BESJND	BESSEL FUNCTION JN(X)
B/023/S	BESYNS	BESSEL FUNCTION YN(X)
B/023/D	BESYND	BESSEL FUNCTION YN(X)
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	EXPG2S	EXPONENTIAL INTEGRAL 2
B/027/D	EXPG2D	EXPONENTIAL INTEGRAL 2
C．微積分		
C/001/S	DIFLAS	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)
C/001/D	DIFLAD	NUMERICAL DIFFERENTIATION (LAGRANGE'S INTERPOLATION)
C/002/S	SIMPS	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)
C/002/D	SIMPD	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)
C/003/S	GAUSSS	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)
C/003/D	GAUSSD	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)
C/004/D	GAS3D	NUMERICAL INTEGRATION (3-POINT GAUSSIAN FORMULA)
C/005/D	GAS4D	NUMERICAL INTEGRATION (4-POINT GAUSSIAN FORMULA)
C/006/D	GAS5D	NUMERICAL INTEGRATION (5-POINT GAUSSIAN FORMULA)
C/007/D	GAS6D	NUMERICAL INTEGRATION (6-POINT GAUSSIAN FORMULA)
C/008/D	GAS7D	NUMERICAL INTEGRATION (7-POINT GAUSSIAN FORMULA)
C/009/D	GAS8D	NUMERICAL INTEGRATION (8-POINT GAUSSIAN FORMULA)
C/010/D	GAS9D	NUMERICAL INTEGRATION (9-POINT GAUSSIAN FORMULA)
C/011/D	GAS10D	NUMERICAL INTEGRATION (10-POINT GAUSSIAN FORMULA)
C/012/D	GAS12D	NUMERICAL INTEGRATION (12-POINT GAUSSIAN FORMULA)
C/013/D	GAS16D	NUMERICAL INTEGRATION (16-POINT GAUSSIAN FORMULA)
C/014/D	GAS24D	NUMERICAL INTEGRATION (24-POINT GAUSSIAN FORMULA)
C/015/D	GAS32D	NUMERICAL INTEGRATION (32-POINT GAUSSIAN FORMULA)
C/016/S	SIMP1S	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)
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)

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 CNWTNS ALGEBRAIC EQUATION WITH COMPLEX COEFFICIENTS (NEWTON-RAPHSON METHOD)
D/005/D CNWTND 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)

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 GAUELD LINEAR EQUATIONS (GAUSS ELIMINATION METHOD)
E/003/S SWEEPS LINEAR EQUATIONS (SWEEP OUT METHOD)
E/003/D SWEEPD LINEAR EQUATIONS (SWEEP OUT METHOD)
E/004/S CSWEPS LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS (SWEEP OUT METHOD)
E/004/D CSWEPD LINEAR EQUATIONS WITH COMPLEX COEFFICIENTS (SWEEP OUT METHOD)
E/005/S TRIDGS TRIDIAGONAL EQUATIONS (GAUSS'S ELIMINATION METHOD)
E/006/S SIMEQS LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)
E/006/D SIMEQD LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)

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 SRKGS SYSTEM OF ORDINARY DIFFERENTIAL EQUATIONS (RUNGE-KUTTA-GILL METHOD)
F/002/D SRKGD 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 MADDS MATRIX ADDITION
G/001/D MADDD 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 MTRNSS MATRIX TRANSPOSITION
G/005/D MTRNSD MATRIX TRANSPOSITION
G/006/S MUNITS UNIT MATRIX
G/006/D MUNITD 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 JACOBD EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
G/013/S HERMTS EIGENVALUES AND EIGENVECTORS OF HERMITIAN MATRIX
G/013/D HERMTD 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 DANEWS EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)
G/015/D DANEWD EIGENVALUES ANS 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 HOUSD EIGENVALUES OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
G/018/S HES@RS EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (@R METHOD)
G/018/D HES@RD EIGENVALUES AND EIGENVECTORS OF REAL MATRIX (@R METHOD)
G/019/S HOUS2S EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
G/019/D HOUS2D EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (HOUSEHOLDER METHOD)
G/020/S @REGNS EIGENVALUES OF REAL MATRIX (@R METHOD)
G/020/D @REGND EIGENVALUES OF REAL MATRIX (@R METHOD)
G/021/S GAVECS EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/021/D GAVECD EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/022/S MINV2S INVERSE MATRIX
G/022/D MINV2D INVERSE MATRIX
G/023/S GAVE2S RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/023/D GAVE2D RIGHT HAND SIDE AND LEFT HAND SIDE EIGENVECTORS OF REAL MATRIX (INVERSE ITERATION METHOD)
G/024/S CHS@RS EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (@R METHOD)
G/024/D CHS@RD EIGENVALUES AND EIGENVECTORS OF COMPLEX MATRIX (@R 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)

H．フーリエ級数

H/001/D COFOD COSINE ANALYSIS OF FOURIER SERIES
H/002/D SIFOD SINE ANALYSIS OF FOURIER SERIES
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 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

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

Z．その他

Z/001/S POADDS ADDITION OF POLYNOMIALS
Z/001/D POADDD ADDITION OF POLYNOMIALS
Z/002/S POSUBS SUBTRACTION OF POLYNOMIALS
Z/002/D POSUBD SUBTRACTION OF POLYNOMIALS
Z/003/S POMULS MULTIPLICATION OF POLYNOMIALS
Z/003/D POMULD MULTIPLICATION OF POLYNOMIALS
Z/004/S PODIVS DIVISION OF POLYNOMIALS
Z/004/D PODIVD DIVISION OF POLYNOMIALS
Z/006/S NORRNS NORMAL RANDOM NUMBERS
Z/007/S POISNS POISSON RANDOM NUMBERS
Z/009/S COMBS BINOMIAL COEFFICIENTS
Z/009/D COMBD BINOMIAL COEFFICIENTS

3．富士通作成　ＳＳＬ　ＡＬＧＯＬ

これらのプログラムは、Ａ．ＳＳＬＩＢのファイルに登録されています。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。

（＊）印のあるものは、新規登録のプログラムです。

登録番号	呼び出し名	題目
B．一般、特殊関数		
B/001/A	CEL11A	COMPLETE ELLIPTIC INTEGRAL OF THE FIRST KIND
B/002/A	CEL12A	COMPLETE ELLIPTIC INTEGRAL OF THE SECOND KIND
B/003/B	EXPGB	EXPONENTIAL INTEGRAL 1
B/004/A	GAMANA	GAMMA FUNCTION
B/005/A	GAMA1A	GAMMA FUNCTION
B/008/A	LNKAIA	LOG(N!)
B/008/B	LNKAIB	LOG(N!)
B/009/B	FRESB	FRESNEL'S INTEGRAL
B/010/B	SIB	SINE INTEGRAL
B/011/B	CIB	COSINE INTEGRAL
B/012/B	BESJ0B	BESSEL FUNCTION J0(X)
B/013/B	BESJ1B	BESSEL FUNCTION J1(X)
B/014/B	BESY0B	BESSEL FUNCTION Y0(X)
B/015/B	BESY1B	BESSEL FUNCTION Y1(X)
B/016/B	BESI0B	BESSEL FUNCTION I0(X)
B/017/B	BESI1B	BESSEL FUNCTION I1(X)
B/018/B	BESK0B	BESSEL FUNCTION K0(X)
B/019/B	BESK1B	BESSEL FUNCTION K1(X)
B/020/B	LEGDB	LEGENDRE'S POLYNOMIAL
B/021/A	BEKIA	POWER SERIES
B/021/B	BEKIB	POWER SERIES
B/022/A	BESJNA	BESSEL FUNCTION JN(X)
B/022/B	BESJNB	BESSEL FUNCTION JN(X)
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	EXPG2A	EXPONENTIAL INTEGRAL 2
*B/027/B	EXPG2B	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/002/A	SIMPA	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)
C/002/B	SIMPB	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE)
C/003/A	GAUSSA	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)
C/003/B	GAUSSB	NUMERICAL INTEGRATION (GAUSSIAN FORMULA)
C/004/B	GAS3B	NUMERICAL INTEGRATION (3-POINT GAUSSIAN FORMULA)
C/005/B	GAS4B	NUMERICAL INTEGRATION (4-POINT GAUSSIAN FORMULA)
C/006/B	GAS5B	NUMERICAL INTEGRATION (5-POINT GAUSSIAN FORMULA)
C/007/B	GAS6B	NUMERICAL INTEGRATION (6-POINT GAUSSIAN FORMULA)
C/008/B	GAS7B	NUMERICAL INTEGRATION (7-POINT GAUSSIAN FORMULA)
C/009/B	GAS8B	NUMERICAL INTEGRATION (8-POINT GAUSSIAN FORMULA)
C/010/B	GAS9B	NUMERICAL INTEGRATION (9-POINT GAUSSIAN FORMULA)
C/011/B	GAS10B	NUMERICAL INTEGRATION (10-POINT GAUSSIAN FORMULA)
C/012/B	GAS12B	NUMERICAL INTEGRATION (12-POINT GAUSSIAN FORMULA)
C/013/B	GAS16B	NUMERICAL INTEGRATION (16-POINT GAUSSIAN FORMULA)
C/014/B	GAS24B	NUMERICAL INTEGRATION (24-POINT GAUSSIAN FORMULA)
C/015/B	GAS32B	NUMERICAL INTEGRATION (32-POINT GAUSSIAN FORMULA)
C/016/A	SIMP1A	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)
C/016/B	SIMP1B	NUMERICAL INTEGRATION (SIMPSON'S 1/3 RULE, DIGITAL INPUT 1)
*C/017/A	GSL4A	NUMERICAL INTEGRATION (4-POINT GAUSS-LAGUERRE FORMULA)
*C/018/A	GSL5A	NUMERICAL INTEGRATION (5-POINT GAUSS-LAGUERRE FORMULA)
*C/019/A	GSL6A	NUMERICAL INTEGRATION (6-POINT GAUSS-LAGUERRE FORMULA)
*C/020/A	GSL7A	NUMERICAL INTEGRATION (7-POINT GAUSS-LAGUERRE FORMULA)
*C/021/A	GSL8A	NUMERICAL INTEGRATION (8-POINT GAUSS-LAGUERRE FORMULA)
*C/022/A	GSL9A	NUMERICAL INTEGRATION (9-POINT GAUSS-LAGUERRE FORMULA)

*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 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)

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 SIME@A LINEAR EQUATIONS AND DETERMINANTS (SWEEP OUT METHOD)
*E/006/B SIME@B 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 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 JACOBA EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRIX (THRESHOLD-JACOBI METHOD)
G/010/B JACOBB 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	DANEWA	EIGENVALUES ANS EIGENVECTORS OF REAL MATRIX (DANILEVSKII'S METHOD)
G/015/B	DANEWB	EIGENVALUES ANS 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	GAVECB	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/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)

H．フーリエ級数

H/001/B	COFOB	COSINE ANALYSIS OF FOURIER SERIES
H/002/B	SIFOB	SINE ANALYSIS OF FOURIER SERIES
H/003/B	COASSB	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	LSTSQB	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

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