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SYNCHROTRON RADIATION BIBLIOGRAPHY: MANAGER'S GUIDE

by

G.D. FIRTH, F. GIBB and J.C.C. SHARP, Daresbury Laboratory

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Daresbury Laboratory

Daresbury, Warrington WA4 4AD

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1. INTRODUCTION

SRSBIB is a computer based information system containing references on synchrotron radiation and related topics.

SRSBIB uses the FAMULUS suite of programs on the Daresbury Laboratory NAS AS/7000 computer. FAMULUS is an information storage and retrieval system which was originally developed at the Pacific South West Forest and Range Experimental Station (California) of the US Department of Agriculture in 1969. It was adapted and further developed at University College, London, and then implemented on the Rutherford Laboratory IBM 360/195's from where the version mounted on the NAS AS/7000 at Daresbury was obtained.

FAMULUS offers various information retrieval facilities, such as sorting, indexing, searching and catalogue production. Subsequent sections of this report describe the elements and structure of the database and the command procedures which may be used to access it.

2. DEVELOPMENT OF THE BIBLIOGRAPHY

"Synchrotron Radiation: a Bibliography" was first published in 1972⁽¹⁾ and represented the first attempt to review the whole field, including astrophysical applications. A supplement was issued in 1974⁽²⁾, since which time the rapid expansion in the number of synchrotron radiation related papers has led to a re-appraisal of the existing processing and retrieval system. The current system, using FAMULUS, has been jointly implemented by CSE and TSIS divisions. Major changes from the previous publications are:

- The expansion and restructuring of the main subject headings
- The restricted use of annotations
- The provision of microfiche copies of the complete bibliography
- The provision of 'on-demand' printouts of specific subjects
- Enhanced indexing and retrieval facilities

3. SPECIFICATION FOR INPUTTING DATA

3.1 Introduction

Input data for the FAMULUS program suite is stored in a series of files of the form

II.SBIBn.DATA

Where n is an integer indicating successive sets of new records.

To create a new file, enter the command:

EDIT SBIBN DATA ASIS NONUM NEW

To edit an existing file, enter the command:

EDIT SBIBN DATA ASIS NONUM

To separate entries within the dataset, a blank line should be inserted after the section code field. If a line of text for a particular field exceeds the limit of 80 characters then it must be entered as two or more lines. Each line must be filled to its capacity and each extra line begun in column 6. Where a word carries over from one line to the next do not insert a hyphen as columns 6-80 of successive cards for a field are treated as a continuous string of characters. If a word ends exactly at the end of a line it will of course be necessary to insert a space in column 6 before continuing the line.

3.2 Field Identifiers

The field identifiers used are as follows:

TITL

AUTH

CITA

LANG

DATE

KEYW

SECT

Field identifiers should always occupy the first four columns in a line, should always be typed in capitals, and should always be followed by a blank space. Field identifiers and associated text for each reference should always be input in the order given above. Fields for which there is no information for a particular entry should not be included.

3.3 Title Information

The title of a reference should be entered in the TITL field. Where possible an English translation of foreign language titles should be given. Although obvious spelling mistakes should be corrected, alternative spellings should be left unaltered. These will be catered for by making use of the synonym facility.

Greek letters should be translated and enclosed in single quotes.

e.g. Ka-edges

should be written:

K'alpha'-edges.

Other unusual symbols should be described as concisely as possible following precedents where available

e.g. ⊀ſ

should be written:

'h-bar'

Chemical formulae should be written giving subscripts precedence over superscripts

e.g. CO2

CO2-

should be written:

3.4 Authors, Editors and Compilers

Authors, editors and compilers should be entered in the AUTH field.

A semicolon is used to separate multiple authors. No other punctuation should be used within names. The preferred format for authors' names is SURNAME INITIALS,

i.e. James OR ; Knopf LU

Initials of Christian names should be reduced to their simplest form and any internal punctuation ignored.

i.e. Wang TH not Wang T-H

Ablikow Y not Ablikow Yb

This field should only be used for those authors etc. directly responsible for the reference. It should not be used in analytic entries, for example, for editors of books within which the reference appears.

3.5 Bibliographic Details

Bibliographic details should be entered in the CITA field.

3.5.1 Journal Citations

The prescribed format for journal citations is:

JOURNAL ABBREVIATION, VXX noXX/date (year) pX-X

i.e. Phys Bull, v22 no6 (1972) p3-8

or: Proc Roy Soc, v369 no8 (1973) p58-59

or: Phys Today, Mar (1972) p6-9

Parallel citations (eg for translated articles or preprints) should be separated by a semicolon. Journal abbreviations should be taken from the authority file (appendix A). Page numbers should be given as completely as possible, i.e. p58-59.

3.5.2 Books

The prescribed format for publishers' information is: PLACE: PUBLISHER (DATE)

i.e.

New York : Plenum (1972)

3.5.3 Analytic Entries

The prescribed format for analytic entries is:

In: BOOK, AUTHORS/EDITORS/COMPILERS. PUBLISHER'S
 INFORMATION (DATE) PXX-XX

i.e.

IN: Synchrotron Radiation, edited by B.Bolokov. New York : Plenum (1972) p32-39

3.5.4 Reports

The prescribed format for report numbers is:

ACRONYM-REPORT NO.

i.e.

SSRL-REPORT-78-01

DL-SCI-P306A

Acronyms should be taken from the authority file (see appendix D).

3.6 Language

Language should be entered in the LANG field. This field should not be used if the language is English.

3.7 Date

The year of publication should be entered in the DATE field. Where

there are parallel citations the earliest date of publication should be used.

3.8 Keywords

Keywords are used to provide an enhanced description for those entries where the title of the reference is not sufficiently informative, and these should be entered in the KEYW field. A semicolon is used to separate keywords and/or keyword phrases. The prescribed format is:

KEYWORD KEYWORD , KEYWORD

1 .e.

plasma processes ; nebulae

3.9 Subject Code

The appropriate subject section code should be entered in the SECT field. A complete list of subject section codes is given in appendix B.

3.10 Sample Input

logon ii/machshov

edit sbibn data asis nonum

>input

TITL Synchrotron radiation in crab nebulae

AUTH James OR ; Knopf LU

CITA Rev Astron Proc, v369 no8 (1973) p58-59

LANG German

DATE 1974

KEYW plasma processes ; nebulae

SECT zza

TITL Synchrotron radiation processes reviewed

AUTH James OR ; Knopf LU

CITA J Synch Rad, v22 no6 (1973) p3-59

LANG German

DATE 1974

KEYW plasma processes ; nebulae

SECT zza

4. ACCESSING THE DATABASE

The following commands are available to access the SRS BIBLIOGRAPHY database:

SRSEDIT - update the database.

SRSINDX - produce an index.

SRSKWIC - keyword in context index.

SRSKWOC - keyword out of context index.

SRSMULT - sorted print after field multiplication.

SRSOSSY - dump database in card image format.

SRSPICK - sorted print of selected entries.

SRSREF - print a reference listing.

SRSSOGA - sorted print of selected fields.

SRSSRCH - search for records meeting condition(s).

SRSVOC - vocabulary and statistics.

The commands reside in II.CLIST and a detailed description of each is given below. Most of the parameters used by the commands are common to all and wherever possible the parameters have been given default values which should suffice for the majority of cases tackled. When no sensible default for a parameter is available a positional parameter has been used (CF the keyword parameters used when a default is possible).

Common parameters are listed below, default values being given in brackets with an * taken to mean that while the parameter is common to several commands the default value is not.

- ID(%U) the ID used to identify the job submitted and the file of control cards. (NB the %U variable will take the value of the TSO session from which the job is submitted).
- ACCT(%G) the account number the job is to run under (NB %G causes the account number of the current TSO session to be substituted).
- MIN(*) the number of minutes CPU time given to the job.
- SEC(*) the number of seconds CPU time given to the job.
- JOB(*) used together with ID to give a job name (NB the total length of the job name must be no more than 8 characters).
- FILE(*) used to identify the file containing control statements for the job. The full file name is of the form

GID..DATA(GFILE) for all commands except SRSEDIT.

CLASS(A) - SYSOUT class for output - the default A causes all print to be in capital letters. Specify 5 to obtain a print in upper and lower case (NB class 5 output is usually only printed off overnight). If it is wished to route the output to a TSO terminal specify T and use the standard HOUT TSO command to examine the output when the job has run.

Note that for jobs with two steps some duplication of parameters is necessary, for instance two control files are needed. In these cases the standard parameters are used suffixed by a number.

Each command causes a batch job to be submitted to the Daresbury central computer, each job using one or more of the suite of programs which comprise the FAMULUS data management system. A full description of the FAMULUS programs is given in the FAMULUS User Guide (3), the basic principle being that processing in each of the FAMULUS programs is controlled by means of a control file in which the FAMULUS commands are entered. All the default control files referred to in this section are members of the partitioned dataset (PDS) II.DATA. Further information on partitioned datasets can be found in the Daresbury Computer Users Guide chapters 2 and 5(4). Note that control cards referred to in this section are really card images in disk files, not physical cards. If it is not possible to access the database in the way required by using one of the default sets of control cards then it will be necessary to create a new member of II.DATA containing the appropriate FAMULUS commands. If the new set of control cards is to be similar to an existing set then it is best to copy the old control cards to a new member of II.DATA and then edit this new member. The commands when logged on as user II are

COPY DATA(OLDMEMB) DATA(NEWMEMB)

EDIT (NEWMEMB) DATA ASIS

The dataset can now be edited in the normal manner (see Daresbury Computer User Guide Chapter 3). If the new control cards are not similar to an existing set then the commands when logged on as user II are

EDIT (NEWMEMB) DATA ASIS NEW NONUM

After which a prompt to type in the control cards is received. If the user id is not II then the commands are

COPY 'II.DATA(OLDMEMB)' 'II.DATA(NEWMEMB)'

EDIT 'II.DATA(NEWMEMB)' DATA ASIS

EDIT 'II.DATA(NEWMEMB)' DATA ASIS NEW NONUM

e.q.

EDIT (SRSFEL) DATA ASIS NONUM NEW

/ID/SRS BIBLIOGRAPHY

/FIELDS/(SECT)

/SEARCH/zzcbd

Once a new set of control cards has been created the FILE parameter of the appropriate clist command should be used to specify that the new file is to be used. For example if a new set of keyword in context control cards has been set up in II.DATA(SRSKWIC2) then a new keyword in context index can be produced by the command

SRSKWIC FILE(SRSKWIC2)

(assuming the user has id II). It is hoped that the ability to store sets of control cards will enable a comprehensive selection of standard reports to be readily available to the user.

For example, to set up a search for all the entries in section zzebd the following control cards would be necessary, the appropriate commands to edit the dataset also being shown:

EDIT (SRSFEL) DATA ASIS NONUM NEW

/ID/SRS BIBLIOGRAPHY

/FIELD/(SECT)

/SEARCH/zzcbd

The command to submit the job which uses these control cards is SRSSRCH FILE(SRSFEL)

Some of the more common FAMULUS commands are listed below, the standard format being:

/KEYWORD(S)/list

where KEYWORD(S) identifies the FAMULUS command to be used and 'list' is a parameter list supplied by the user (not all FAMULUS commands have parameters). Most of the FAMULUS programs use only a selection of the keywords described below. For all FAMULUS programs the first control card is compulsory and must be of the format:

/ID/title

Where title is the name of the database (SRS BIBLIOGRAPHY) and must be identical to the name stored in the FAMULUS master file. The title is out-

put as a page heading by all FAMULUS programs unless the /NEW ID/ parameter is used.

/NEW ID/title

Used to give a new title to the database or to specify a page heading different from the database title.

/FIRLDS/(list of field names)

Used by the EDIT program to identify the fields within the database. Several of the other FAMULUS programs use the keyword to select field(s) on which special actions are required.

/DESCRIPTOR PIELD/(field name)

The field named is treated in a special manner by several of the programs.

/SELECT/(range)

To select specific records or record ranges from the database.

/STOP LIST/list

When producing, for instance, a KWIC index from the database there are many words such as A, TWE etc which it is desirable to exclude as indexing terms, STOP LIST provides a means of doing this.

/GO LIST/list

Similar to STOP LIST but only those words specified in the GO LIST are used in creating indices etc.

4.1 SRSEDIT

II.CLIST(SRSEDIT) submits a batch job which can be used to add new records to the database and to amend or delete existing records within the database using the FAMULUS EDIT program. The job produces a new master file from the existing master file and the information contained in the file specified by the FILE parameter. When creating a new FAMULUS database this file must contain the following FAMULUS control cards at the beginning:-

/ID/SRS BIBLIOGRAPHY
/FIELDS/(TITL,AUTH,CITA,LANG,DATE,KEYW,SECT,X,XX,XXX)
/DESCRIPTOR FIELD/(TITL)(,)
/ORIGINAL/
/CITATIONS/

Followed by the input data in the format given in the section 'specification for inputting data to FAMULUS files'.

When adding records to an existing FAMULUS database this file must

contain the following FAMULUS control cards at the beginning:/ID/SRS BIBLIOGRAPHY
/CITATIONS/

Followed by the input data in the format given in section 3 (specification for inputting data to FAMULUS files). The /FIELDS/ and /DESCRIPTOR FIELD/ cards may optionally be included.

When editing database records the required control cards are:
/ID/SRS BIBLIOGRAPHY
/REPLACE/(record number)(field)*old text*new text*

e.g.
/ID/SRS BIBLIOGRAPHY
/REPLACE/(391)(AUTH)**Thomas RE*

When deleting database records the required control cards are:
/ID/SRS BIBLIOGRAPHY
/DELETE/(number,number,range)
e.g.
/ID/SRS BIBLIOGRAPHY
/DELETE/(20,30,40-78)

The clist has the positional parameter:

FILE - used to identify the file containing update information. The full name of the file is GID..GFILE..DATA .

The clist has the following keyword parameters, default values being given in brackets:-

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(O) - job CPU time.

SEC(28) - job CPU time.

JOB(EDIT) - tob name.

HFRAAF

4.2 SRSINDX

II.CLIST(SRSINDX) submits a batch job in which the FAMULUS INDEX program produces an index to the database. The default control cards associated with the command will produce an author (AUTH) index, however an index may be produced from any field within the database. The control cards contained in the default control file are:-

/ID/SRS BIBLIOGRAPHY
/DESCRIPTOR FIELD/(AUTH)(;)

Setting up a control file with, for example, SECT as the descriptor field would produce an index to the database on section. Note that the semicolon, known as the break character, after (AUTH) indicates to the INDEX program that for entries published by more than one author the authors names are separated by semicolons. If the break character is omitted then the index program will take any punctuation or blanks as break characters within the field.

The clist has the following keyword parameters

FILE(SRSINDX) - identifies the control card file.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(0) - job CPU time.

SEC(B) - job CPU time.

JOB(INDEX) - job name.

4.3 SRSKWIC

II.CLIST(SRSKWIC) submits a batch job which uses the FAMULUS KWIC program to produce a KWIC (Key Word in Context) index to the database. The default control cards associated with the command will produce a KWIC index from the title (TITL) field, however a KWIC index may be produced from any field or combination of fields in the database. The default control cards are:-

```
/ID/SRS BIBLIOGRAPHY
/FIELDS/(TITL)
/STOP LIST/A*a*the* -----
```

Setting up a control file with, for example, CITA (Citation) speci-

fied by the /FIELDS/ card would produce a keyword in context index to the database from the citation field. Note that all words specified in the STOP LIST will not be used as indexing terms. The STOP LIST will obviously increase in size as the database grows.

The clist has the following keyword parameters:-FILE(SRSKWIC) - identifies the control card file.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

HIN(0) - job CPU time.

SEC(58) - job CPU time.

JOB(KWIC) - job name.

4.4 SRSKWOC

II.CLIST(SRSKWOC) submits a batch job to produce a KWOC (Key Word Out of Context) index to the database. The default control cards associated with the command will produce a KWOC from the title (TITL) and keyword (KEYW) fields, however, KWOC may be produced from any field or combination of fields in the database. The SRSKWOC command uses two of the FAMULUS programs, KEY and INDEX. It is therefore necessary to supply two sets of control cards, one for each program. Within the SRS BIBLIOGRAPHY database three work fields are defined: X, XX and XXX. It is recommended that one of these work fields is used in creating the KWOC index to pass the keywords generated by the KEY program to the INDEX program. In the default sets of control cards the work field used is X and provided this work field is always used the default control cards for the INDEX program should be sufficient for the majority of cases. The default control cards for the KEY program are:-

```
/ID/SRS BIBLIOGRAPHY

/FIELDS/(TITL, KEYW)

/DESCRIPTOR FIELD/(AUTH)(;)

/KEY FIELD/(X)(;)

/STOP LIST/a*the* -----
/SYNONYMS/ list

/PRINT/(200)
```

The field(s) identified by the /FIELDS/ card are the ones from which the key word index will be generated. The field indicated by the /KEY FIELD/ card is the one in which keywords will be stored for reference by the INDEX program. The words listed after the /STOP LIST/ card will be omitted from the index. The /SYNONYMS/ card is used to enable the number of keywords in the index to be reduced. For example:-

/SYNONYMS/ ASTROPHYSICS=ASTROPHYSICAL

would cause entries containing the word astrophysical to be indexed under astrophysics. Note this facility can be used to overcome such difficulties as American spellings and words which are spelt the same but contain different combinations of upper and lower case letters. Note that the lists of words associated with the /STOP LIST/ and /SYNONYMS/ cards will be developed as the database expands and the lists shown with the default control cards are only examples, not the full lists which will be associated with the operational database.

```
The default control cards for the INDEX program are:-
/ID/SRS BIBLIOGRAPHY
/DESCRIPTOR FIELD/(X)(;)
```

Note that the field identified by the /DESCRIPTOR FIELD/ card must be the same as the field identified by the /KEY FIELD/ card of the KEY program.

The clist has the following keyword parameters:

FILE: (SRSWOC1) - identifies the control card file for the KEY program.

FILE2(SRSWOC2) - identifies the control card file for the INDEX program.

ID(%G) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MINI(0) - CPU time for KEY program.

SEC1(4) - CPU time for KEY program.

MIN2(0) - CPU time for INDEX program.

SEC3(4) - CPU time for INDEX program.

JOB(KWIC) - job name.

4.5 SRSMULT

II.CLIST(SRSMULT) submits a batch job to produce a sorted print of the database after multiplication has been carried out on a specified field.

The default control cards associated with the command will produce a print

of all journals and reports used in the citation (CITA) field, however a print may be produced of any field(s) in the database. The SRSMULT command uses three of the FAMULUS programs, MULTIPLY, SORT and GALLEY. It is therefore necessary to supply three sets of control cards, one for each program. The default control cards for the MULTIPLY program are:-

/ID/SRS BIBLIOGRAPHY
/DESCRIPTOR FIELD/(CITA)(;)
/PRINT/(0)

The field specified by the /DESCRIPTOR FIELD/ card is the multiplication field. The input file may be multiplied on one field only, but any field may be used. A record is generated in the output file (used as input to the sort step of the job) for each entry in the multiplication field (delimited by a ,).

The default control cards for the SORT program are:
/ID/SRS BIBLIOGRAPHY
/FIELDS/(CITA)

The file output by the SORT program is ordered on the fields identified by the /FIELDS/ card.

The default control cards for the GALLEY program are:/ID/SRS BIBLIOGRAPHY
/FIELDS/(CITA)

The fields identified by the /FIELDS/ card are printed.

The clist has the following keyword parameters:-

FILE!(SRSMULT!) - identifies the control card file for the MULTIPLY program.

FILE2(SRSMULT2) - identifies the control card file for the SORT program.

FILE3(SRSMULT3) - identifies the control card file for the GALLEY program.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN1(0) - CPU time for MULTIPLY program.

SEC1(15) - CPU time for MULTIPLY program.

MIN2(0) - CPU time for SORT and GALLEY programs.

SEC2(42) - CPU time for SORT and GALLEY programs.

JOB(MULT) - job name.

4.6 SRSOSSY

II.CLIST(SRSOSSY) submits a batch job which produces a card image dump of all or part of the database using the FAMULUS OSSIFY program. The dump is in the same format as input to the EDIT program and the main use of the command is to enable the database to be transferred to another computer, such as the Prime E at Rutherford where the data can be loaded into a STATUS database for online retrieval. This is what the default control cards associated with the command will give. The entries are dumped in the order in which they occur in the FAMULUS masterfile.

If the default control cards are not used then it is possible to specify ranges of entries to be dumped by means of the /SELECT/ card. The default control card is:-

/ID/SRS BIBLIOGRAPHY

The clist has the following keyword parameters:-

FILE(SRSOSSY) - identifies the control card file.

ID(%U) - job and field ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(0) - job CPU time.

SEC(29) - job CPU time.

JOB(OSSY) - job name.

GEN(0) - Master file generation to be used.

4.7 SRSPICK

II.CLIST(SRSPICK) submits a batch job to produce a sorted print of a selected portion of the database. The default control cards associated with the command will produce a print of those references where the LANG field contains the word Russian in SECTion order. The SRSMULT command uses three of the FAMULUS programs, SEARCH, SORT and GALLEY. It is therefore necessary to supply three sets of control cards, one for each program. The default control cards for the SEARCH program are:

/ID/SRS BIBLIOGRAPHY /FIELDS/(LANG)

/WRITE TAPE/

15

/SEARCH/Russian

The fields specified by the /FIELDS/ card are searched for the string(s) specified on the /SEARCH/ card. Complex logical conditions may be used in specifying the search. The /WRITE TAPE/ card signifies entries which meet the criteria are to be output to a file.

The default control cards for the SORT program are:/ID/SRS BIBLIOGRAPHY
/FIELDS/(SECT)

The file output by the SORT program is ordered on the fields identified by the /PIELDS/ card.

The default control cards for the GALLEY program are:/ID/SRS BIBLIOGRAPHY
/FIELDS/(SECT,AUTH,TITL,CITA,LANG)
/PRINT BY SUBJECTS/

The fields identified by the /FIELDS/ card are printed.

The clist has the following keyword parameters:-

FILE! (SRSPICK1) - identifies the control card file for the SBARCH program.

FILE2(SRSPICK2) - identifies the control card file for the SORT program.

FILE3(SRSPICK3) - identifies the control card file for the GALLEY program.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN1(0) - CPU time for SEARCH program.

SEC1(10) - CPU time for SEARCH program.

MIN2(0) - CPU time for SORT program.

SEC2(18) - CPU time for SORT program.

JOB(PICK) - job name.

4.8 SRSREF

II.CLIST(SRSREP) submits a batch job which produces a print of all or part of the database using the FAMULUS GALLEY program. The main use of the command is to produce a reference listing of all entries in the database. This is what the default control cards associated with the command will

give. The entries are printed out in the order in which they were added to the database, and the reference number printed alongside each corresponds to the number(s) listed with each term in the index listings (author index, KWOC etc).

If the default control cards are not used then it is possible to specify ranges of entries to be printed by means of the /SELECT/ card. It is also possible to achieve a print in the same format as that produced by the EDIT program if a /PRINT BY FIELDS/ card is supplied. The default control card is:-

/ID/SRS BIBLIOGRAPHY

The clist has the following keyword parameters:-

FILE(SRSREF) - identifies the control card file.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(0) - job CPU time.

SEC(9) - job CPU time.

JOB(REF) - lob name.

4.9 SRSSOGA

II.CLIST(SRSSOGA) submits a batch job which produces a sorted print of the database. Control cards for the SORT and GALLEY programs which are executed are supplied as in-stream data when the job is submitted rather than as separate data files. The field on which the print is sorted and the fields to be printed are parameters of the command. The field on which the output is sorted is always chosen as one of the fields to be output (note that this field is a positional parameter of the command and a name must always be supplied). The default is to print the title (TITL), citation (CITA) and keyword (KEYW) fields in addition to the sort field. However, any combination of the other fields in the database may be chosen instead of the defaults.

The clist has one positional parameter:

FIELD - the field on which the output is to be sorted.

The clist has the following keyword parameters:

PRINTI(TITL). - PRINTI, PRINT2 and PRINT3 are the fields

PRINT2(CITA) - to be printed in addition to the sort field.

PRINT3(KEYW) -

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(0) - job CPU time.

SEC(28) - job CPU time.

JOB(KWIC) - job name.

e.g.

SRSSOGA AUTH

Would produce a print sorted on author name with the AUTH, TITL, CITA, and KEYW fields displayed.

4.10 SRSSRCH

II.CLIST(SRSSRCH) submits a batch job which will cause the database to be searched for any entries which meet the criteria specified on the /SEARCH/ card in the control file. Entries meeting the criteria are printed out. Obviously the control cards in the default control file only specify a search which will be rarely required and the purpose of this default file is to serve as an example. The default control cards are:

/ID/SRS BIBLIOGRAPHY

/FIELDS/(LANG)

/SEARCH/Russian

The /FIELDS/ card specifies which field(s) is/are to be searched and the /SEARCH/ card specifies what is to be looked for in the field(s). For a full description of the criteria which may be specified on the /SEARCH/ card the user is referred to the FAMULUS User Guide⁽³⁾. Note - you must specify exactly the combination of upper and lower case letters you wish to search for.

The clist has the following keyword parameters:-

FILE(SRSSRCH) - identifies the control card file.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(0) - job CPU time.

SEC(8) - job CPU time.

JOB(SRCH) - job name.

4.11 SRSVOC

II.CLIST(SRSVOC) submits a batch job which produces statistics on the vocabulary of the database. The default control cards will produce statistics on vocabulary in the title (TITL) field, however statistics on any field or combination of fields in the database may be produced. The control cards contained in the default control file are:

/ID/SRS BIBLIOGRAPHY

/FIELDS/(TITL)

/VOCABULARY/A

The /FIELDS/ card specifies on which field(s) statistics are to be produced and the /VOCABULARY/ card specifies which words are to be omitted from the statistics. Note that due to a program error the /VOCABULARY/ card must always specify at least one word.

FILE(SRSVOC) - identifies the control card file.

ID(%U) - job and file ID.

ACCT(%G) - job account number.

CLASS(A) - job output class.

MIN(0) - job CPU time.

SEC(28) - job CPU time.

JOB(COUNT) - job name.

APPENDIX A

STOP LIST

with certain of the FAMULUS programs, such as FAMKWIC, it is possible to specify a STOP LIST of trivial words which are not to be used for indexing purposes. The words listed below are included in the SRS BIBLIOGRAPHY stop list.

A AN ANALYSIS AND APPLICATIONS AS AT

BETWEEN BY

CHARACTERISTICS

DISTRIBUTION

FOR FROM

IN INVESTIGATION ITS

MEANS MEASUREMENT MEASUREMENTS METHOD MOVING

NEW

OBSERVATION OF ON

POSSIBLE PROPERTIES

RADIATION

STUDIES STUDY SYNCHROTRON

THE TO

USE USING

WITH

APPENDIX B

SECTION HEADINGS

The bibliography is divided into the sections indicated below.

ZZA GENERAL

ZZB THEORY

ZZBA SYNCHROTRON RADIATION THEORY : GENERAL

ZZBB SYNCHROTRON RADIATION THEORY : POLARISATION PROPERTIES

ZZC SYNCHROTRON SOURCES

ZZCA MACHINE PHYSICS

ZZCB SYNCHROTRON RADIATION FACILITIES

ZZCBA SYNCHROTRONS

ZZCBB STORAGE RINGS

ZZCBC WIGGLERS, SPECIAL DEVICES

ZZCBD FREE ELECTRON LASERS

ZZD INSTRUMENTATION

ZZDA MONOCHROMATORS

ZZDB DETECTORS

ZZDC EXPERIMENTAL APPARATUS

ZZDD COMPUTING : CONTROL/DATA ACQUISITION/DISPLAY BTC

ZZDE OTHER BEAMLINE COMPONENTS

ZZE EXPERIMENTAL APPLICATIONS

ZZEA ATOMIC AND MOLECULAR ABSORPTION SPECTROSCOPY

ZZEB COMPTON SCATTERING

ZZEC EXAFS, XANES

ZZED FLUORESCENCE, LUMINESCENCE

ZZEE INFRA-RED SPECTROSCOPY

ZZEF LIFETIME MEASUREMENTS

ZZEG MODULATION SPECTROSCOPY (ELECTROREFLECTANCE)

ZZEH NUCLEAR RESONANCE SPECTROSCOPY

ZZEI PHOTOELECTRON SPECTROSCOPY

ZZEJ PHOTOEMISSION/ESCA

	PD		

JOURNAL ABBREVIATIONS

A set of journal abbreviations has been developed and the authority list is given below

ACTA CRYSTALLOGRAPHICA A ACTA CRYS A ACTA PHYSICA AUSTRIACA ACTA PHYS AUST

AIAA JOURNAL AIAA J

AIP CONFERENCE PROCEEDINGS AIP CONF PROC AMERICAN JOURNAL OF PHYSICS AM J PHYS ANNALES DE PHYSIQUE ANN DE PHYS ANNALS OF PHYSICS ANN PHYS

ANNUAL REVIEW OF BIOPHYSICS AND ANN REV BIOPHYS AND BIOENG

BIOENGINEERING

ANNUAL REVIEW OF NUCLEAR SCIENCE ANN REV NUCL SCI

APPLIED OPTICS APPL OPT APPLIED PHYSICS APPL PHYS APPLIED PHYSICS B APPL PHYS B APPLIED PHYSICS LETTERS APPL PHYS LETT ASTRONOMICHESKII ZHURNAL ASTRON ZH

ASTROPHYSICS AND SPACE SCIENCE ASTROPHYS AND SPACE SCI

ASTROPHYSICAL JOURNAL ASTROPHYS J

ATOMIC DATA AND NUCLEAR DATA TABLES AT DATA AND NUCL DATA TABS

ATOMNAYA ENERGIYA AT ENERG

ATTI DELL ACCADEMIA NAZIONALE DEI ATTI ACCAD NAZ LINCEI REND

LINCEI RENDICONTI

AUSTRALIAN JOURNAL OF PHYSICS AUST J PHYS

BELL SYSTEM TECHNICAL JOURNAL BELL SYST TECH J

BEREICHTE DER BUNSEN-GESELLSCHAFT FUR BER BUNSENGES PHYS CHEM

PHYSIKALISCHE CHEMIE

BULLETIN OF THE ACADEMY OF SCIENCES BULL ACAD SCI USSR PHYS SER

OF THE USSR: PHYSICAL SERIES

BULLETIN OF AMERICAN PHYSICAL SOCIETY BULL AM PHYS SOC

BULLETIN OF THE CANADIAN ASSOCIATION BULL CAN ASSOC PHYS

OF PHYSICS

ZZEM RESONANCE RAMAN SCATTERING

SMALL ANGLE SCATTERING

ZZEN

ZZEO SURFACE EXAFS

ZZEK

ZZEL

TIME RESOLVED SPECTROSCOPY ZZEP

RADIOMETRY / METROLOGY

ZZER X-RAY DIFFRACTION

X-RAY DIFFUSE SCATTERING ZZES

ZZET X-RAY INTERFEROMETRY

ZZEU X-RAY LITHOGRAPHY

ZZEV X-RAY MICROSCOPY , MICRORADIOGRAPHY

X-RAY TOPOGRAPHY ZZEW

ZZEX OTHER APPLICATIONS (e.g. Radiation Damage,

PHOTOIONISATION ; ATOMS, MOLECULES AND IONS

X-ray Holography, etc.)

ZZF PLASMAS

ZZG ASTROPHYSICS AND SYNCHROTRON RADIATION

ASTROPHYSICS : THEORY ZZGA

ZZG8 TERRESTRIAL SOURCES

ZZGC JUPITER

ZZGD OTHER PLANETS

ZZGE SOLAR PHYSICS

ZZGF STELLAR PHYSICS

ZZGG CRAB NEBULA

ZZGH GALACTIC AND OTHER EXTRAGALACTIC SOURCES

HР	D	D	Ð	

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CERN COURIER	CERN COURIER	PHYSICS AND CHEMISTRY	
CESKOSLOVENSKY CASOPIS PRO FYSIKU	CESK CA FYS	INTERNATIONAL JOURNAL OF THEORETICAL	INT J THEOR PHYS
CHEMICAL AND ENGINEERING NEWS	CHEM AND ENG NEWS	PHYSICS	
CHEMICAL PHYSICS	CHEM PHYS	IZVESTIYA AKADEMII NAUK ARMYANSKOI	IZV AKAD NAUK ARM SSR FIZ
CHEMICAL PHYSICS LETTERS	CHEM PHYS LETT	FIZIKA	
CHIMIA	CHIMIA	12VESTIYA AKADEMII NAUK SSSR	IZV AKAD NAUK SSSR SER FIZ
CHINESE JOURNAL OF PHYSICS	CHIN J PHYS	SERIYA FIZIKA	
CIRCULARS OF THE ELECTROTECHNICAL	CIRC ELECTROTECH LAB	IZVESTIYA VYSSHIKH UCHEBNYKH	IZV VUZ FIZ
LABORATORY		ZAVEDENII FIZIKA	
COMMENTS ON ATOMIC AND MOLECULAR PHYSICS	COMM AT MOL PHYS	IZVESTIYA VYSSHIKH UCHEBNYKH	IZV VUZ RADIOFIZ
COMMENTS ON PLASMA PHYSICS AND	COMM PLASMA PHYS AND CONT FUSION	. ZAVEDENII RADIOFIZIKA	
CONTROLLED FUSION		JOURNAL DE CHIMIE PHYSIQUE ET DE	J CHIM PHYS AND PHYSIOCHIM BIOL
COMMENTS ON SOLID STATE PHYSICS	COMM SOLID STATE PHYS	PHYSIOCHIMIE BIOLOGIQUE	
COMMUNICATIONS IN PHYSICS	COMMUN PHYS	JOURNAL DE MICROSCOPIE ET DE	J MICROSC AND SPECTROSC ELECTRON
COMPTES RENDOUS DES SEANCES HEBDOMADAIRE	COMP REND	ELECTRONIQUE	
DE L'ACADEMIE DES SCIENCES		JOURNAL DE PHYSIQUE	J DE PHYS
CONTEMPORARY PHYSICS	CONTEMP PHYS	JOURNAL DE PHYSIQUE COLLOQUES	J DE PHYS COLLOQ
COSMIC RESEARCH	COSMIC RES	JOURNAL OF APPLIED CRYSTALLOGRAPHY	J APPL CRYS
CZECHOSLOVAK JOURNAL OF PHYSICS B	CZECH J PHYS B	JOURNAL OF APPLIED PHYSICS	J APPL PHYS
DOKLADY AKADEMII NAUK SSSR	DOKL AKAD NAUK SSSR	JOURNAL OF CHEMICAL PHYSICS	J CHEM PHYS
DOPOVIDI AKADEMIYI NAUK UKRAYINSKOYI	DOP AKAD NAUK UKR RSR SER A	JOURNAL OF ELECTRON SPECTROSCOPY AND	J ELECTRON SPECTROSC AND REL PHENOM
RSR SERIYA A		RELATED PHENOMENA	
ELEKTRONIKA	ELECTRONIKA	JOURNAL OF LUMINESCENCE	J LUMIN
EUROPHYSICS NEWS	EUROPHYS NEWS	JOURNAL OF MOLECULAR SPECTROSCOPY	J HOL SPECTROSC
FRA FYSIKKENS VERDED	FRA FYS VERD	JOURNAL OF MOLECULAR STRUCTURE	J MOL STRUCT
PYSISK TIDSSKRIFT	PYS TIDSSKR	JOURNAL OF NON-CRYSTALLINE SOLIDS	J NON-CRYS SOLIDS
IBM TECHNICAL DISCLOSURE BULLETIN	IBM TECH DISCLOSURE BULL	JOURNAL OF PHYSICS B	J PHYS B
IEEE JOURNAL OF QUANTUM ELECTRONICS	IRBE J QUANT ELECTRON	JOURNAL OF PHYSICS C	J PHYS C
IEEE TRANSACTIONS ON ELECTRONIC DEVICES	IEEE TRANS ELECTRON DEVICES	JOURNAL OF PHYSICS E	J PHYS E
IEEE TRANSACTIONS ON MAGNETICS	IEEE TRANS MAG	JOURNAL OF PHYSICS F	J PHYS F
IEEE TRANSACTIONS ON NUCLEAR SCIENCES	IEEE TRANS NUCL SCI	JOURNAL OF PHYSICS LETTERS	J PHYS LETT
INDUSTRIAL RESEARCH AND DEVELOPMENT	IND RES DEV	JOURNAL OF QUANTITATIVE SPECTROSCOPY	J QUANT SPECTROSC AND RADIAT
INDIAN JOURNAL OF PHYSICS B	INDIAN J PHYS B	AND RADIATIVE TRANSFER	TRANS
INFRARED PHYSICS	INFRARED PHYS	JOURNAL OF RESEARCH OF THE NATIONAL	J RES NAT BUR STAND A
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES	INSTRUM AND EXP TECH	BURBAU OF STANDARDS A	•

INTERNATIONAL JOURNAL OF INFRARED AND

INTERNATIONAL JOURNAL FOR RADIATION

MILLIMETER WAVES

INT J INFRARED AND MILLIM WAVES

INT J RADIAT PHYS AND CHEM

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HPRAAP

BULLETIN OF THE ELECTROTECHNICAL

CANADIAN JOURNAL OF PHYSICS

LABORATORY

BULL ELECTROTECH LAB

CAN J PHYS

		•	
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	J AM CHEM SOC	PHYSIKALISCHE BLATTER	PHYS BL
JOURNAL OF THE OPTICAL SOCIETY OF	J OPT SOC AM	PHYSICS BULLETIN	PHYS BULL
AMERICA		PHYSICA FENNICA	PHYS FENN
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN	J PHYS SOC JAPAN	PHYSICS LETTERS A	PHYS LETT A
JOURNAL OF THE SPECTROSCOPIC SOCIETY	J SPECTROSC SOC JAPAN	PHYSICS OF FLUIDS	PHYS FLUIDS
OF JAPAN		PHYSICS REPORTS	PHYS REP
JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY	J VAC SCI TECHNOL	PHYSICAL REVIEW	PHYS REV
JAPANESE JOURNAL OF APPLIED PHYSICS	JAP J APPL PHYS	PHYSICAL REVIEW A	PHYS REV A
KOSMICHESKIE ISSLEDOVANIA	KOSM ISSLED	PHYSICAL REVIEW B	PHYS REV B
KAVANTOVAIA ELEKTRONIKA MOSKVA	KVANTELEKTRON MOSK	PHYSICAL REVIEW D	PHYS REV D
KYUSHU DIAGAKU KOGAKU SHUHO	KYUSHU DIAGAKU KOGAKU SHUHO	PHYSICAL REVIEW LETTERS	PHYS REV LETT
LASER FOCUS	LASER FOCUS	PHYSICA SCRIPTA	PHYS SCR
LASER UND ELEKTRO-OPTIK	LASER UND ELECTRO-OPT	PHYSICA STATUS SOLIDI B	PHYS STAT SOL B
LETTERE AL NUOVO CIMENTO	LETT NUOVO CIM	PHYSICS TEACHER	PHYS TEACH
METROLOGIA	METROLOGIA	PHYSICS TODAY	PHYS TODAY
MOSAIC	MOSAIC	PHYSICA B AND C	PHYSICA B AND C
MOSCOW UNIVERSITY PHYSICS BULLETIN	MOSC UNIV PHYS BULL	PIS'MA V ZHURNAL EKSPERIMENTAL'NOI	PISMA ZH EKSP AND TEOR FIZ
NATURE	NATURE	I TEORIETICHESKOI FIZIKI	
NEDERLANDS TIJDSCHRIFT VOOR NATUURKUNDE	NED TIJD NAT	PIS'MA V ZHURNAL TEKNICHESKOI FIZIKI	PISMA ZH TEKH FIZ
NEW PHYSICS	NEW PHYS	PLASMA PHYSICS	PLASHA PHYS
NEW SCIENTIST	NEW SCI	PRAMANA	PRAMANA
NUCLEAR INSTRUMENTS AND METHODS IN	NUCL INSTRUM AND METH	PRIBORY I TEKHNIKA EKSPERIMENTA	PRIB TEKH EKSP
PHYSICS RESEARCH		PRIRODA	PRIRODA
NUCLEAR PHYSICS B	NUCL PHYS B	PROCEEDINGS OF THE NATIONAL ACADEMY OF	PROC NAT ACAD SCI USA
NUOVO CIMENTO B	NUOVO CIM B	SCIENCES OF THE UNITED STATES OF	
OPTICA ACTA	OPT ACTA	AMERICA	
OPTICS AND LASER TECHNOLOGY	OPT AND LASER TECHNOL	PROCEEDINGS OF THE ROYAL INSTITUTE OF	PROC ROY INST
OPTICS AND SPECTROSCOPY	OPT SPECTROSC	GREAT BRITAIN	•
OPTICS COMMUNICATIONS	OPT COMMUN .	PROCEEDINGS OF THE ROYAL SOCIETY OF	PROC ROY SOC LOND A
OPTICS LETTERS	OPT LETT	LONDON	
OPTIKA I SPEKTROSKOPIIA	OPT SPEKTROSK	PROCEEDINGS OF THE SOCIETY OF PHOTO-	PROC SOC PHOTO OPT INSTRUM ENG
OPTIK	OPTIK	OPTICAL INSTRUMENTATION ENGINEERS	
OYO BUTSURI	OYO BUTSURI	PROGRESS IN QUANTUM ELECTRONICS	PROG QUANT ELECTRON
PARTICLE ACCELERATORS	PART ACCEL	PTB MITTEILUNGEN	PTB MITT
PHILOSOPHICAL MAGAZINE	PHIL MAG	RADIO1SOTOPES	RADIOISOTOPES
PHILOSOPHICAL MAGAZINE A	PHIL MAG A	RADIOTEKHNIKA I ELEKTRONIKA	RADIOTECH I ELEKTRON
PHILOSOPHICAL MAGAZINE B	PHIL MAG B	RECHERCHES	RECHERCH
PHOTOCHEMISTRY AND PHOTOBIOLOGY	PHOTOCHEM PHOTOBIOL		

27

REP ACAD SCI USSR REPORT OF THE ACADEMY OF SCIENCES OF THE USSR REP PROG PHYS REPORTS ON PROGRESS IN PHYSICS RESEARCH AND DEVELOPMENT RES DEV REVIEW OF SCIENTIFIC INSTRUMENTS **REV SCI INSTRUM** REV MOD PHYS REVIEWS OF MODERN PHYSICS REV PHYS APPL REVUE DE PHYSIQUE APPLIQUEES RIGAKU-DENKI JANARU RIGAKU-DENKI JANARU SCI REP TOHUKU UNIV SCIENCE REPORTS OF TOHUKU UNIVERSITY SCIENCE SCIENCE SCI AM SCIENTIFIC AMERICAN SLAC BEAM LINE SLAC BEAM LINE SOLID STATE COMMUNICATIONS SOLID STATE COMMUN SOLID STATE PHYS SOLID STATE PHYSICS SOVIET ASTRONOMY SOV ASTRON SOV AT ENERG SOVIET ATOMIC ENERGY SOV J AT ENERG SOVIET JOURNAL OF ATOMIC ENERGY SOVIET JOURNAL OF NUCLEAR PHYSICS SOV J NUCL PHYS SOVIET JOURNAL OF QUANTUM ELECTRONICS SOV J QUANT ELECTRON SOVIET PHYSICS DOKLADY SOV PHYS DOKL SOVIET PHYSICS JOURNAL SOV PHYS J SOVIET PHYSICS JETP SOV PHYS JETP SOVIET PHYSICS - TECHNICAL PHYSICS SOV PHYS TECH PHYS SOVIET PHYSICS - USPEKHI SOV PHYS USP SOVIET TECHNICAL PHYSICS LETTERS SOV TECH PHYS LETT SPECTROCHIMICA ACTA A SPECTROCHIM ACTA A SURFACE SCIENCE SURF SCI TECHNOLOGY REPORTS OF KYUSHU UNIVERSITY TECHNOL REP KYUSHU UNIV TECHNOLOGY REPORTS OF OSAKA UNIVERSITY TECHNOL REP OSAKA UNIV TECHNICAL REPORTS OF THE ISSP SERIES A TECH REP ISSP SER A TIMES TIMES TIMES HIGHER EDUCATION SUPPLEMENT TIMES HIGHER ED SUPPL UKRAYINSKI FIZYCHNYI ZHURNAL UKR FIZ ZH USPEKHI FIZYCHYI NAUK USP FIZ NAUK VACUUM VACUUM VESTNIK MOSKOVSKII UNIVERSITET VESTN MOSK UNIV FIZ ASTRON

VIDE

WISSENSCHAFTLICHE ZEITSCHRIFT FREIDRICH- WISS Z FREIDRICH-SCHILLER UNIV

SCHILLER UNIVERSITAT JENA JENA MATH NATURWISS

MATHEMATISCH NATURWISSEN-

SCHAFTLICHE REIHE

WULI WULI

YADERNYA FISIKA YAD FIZ

ZEITSCHRIFT FUR ANGEWANDTE PHYSIK Z ANGEW PHYS

ZEITSCHRIFT FUR PHYSIK B Z PHYS B

ZHURNAL EKSPERIMENTALNOI I ZH EKSP AND TEOR FIZ

TEORETISCHESKOI FISIKI

ZHURNAL PRIKLADNO SPECTROSKOPII ZH PRIKL SPECTROSK

ZHURNAL TEKNISCHESKOI FIZIKI ZH TEKH FIZ

VESTN AKAD NAUK SSSR

SERIES A : FIZIKA ASTRONOMIIA

VESTNIK AKADEMII NAUK SSSR

APPENDIX D

REPORT CODES

The following list of report codes are included in the bibliography:

ZENTRALSTELLE FUER ATOMKERN ENERGIE-DOKUMENTATION	VED
BROOKHAVEN NATIONAL LABORATORY	BNL
BROWN UNIVERSITY	BUP
CAMBRIDGE ELECTRON ACCELERATOR LABORATORY	CEAL
CENTRE EUROPEEN DE RECHERCHES NUCLEAIRES	CERN
CORNELL UNIVERSITY LABORATORY OF NUCLEAR STUDIES	CLNS
CORNELL UNIVERSITY	CU
DEUTSCHES ELEKTRONEN SYNCHROTRON	DESY
DARESBURY LABORATORY	DL
DARESBURY NUCLEAR PHYSICS LABORATORY	DNPL
EREVAN INSTITUTE OF PHYSICS	EFI
ELECTRON POSITRON INTERSECTING COMPLEX	EPIC
EUROPEAN	EUR
CENTRE D'ETUDES NUCLEAIRES, SACLAY	FRNC
INSTITUTE OF ATOMIC ENERGY	INE
INTERNATIONAL ATOMIC ENERGY AGENCY	IAEA
INSTITUTE FOR HIGH ENERGY PHYSICS, SERPUKHOV	IHEP
ISTITUTO NAZIONALE DI FISICA NUCLEAIRE	INFN
INTERNATIONAL NUCLEAR INFORMATION SYSTEM	INIS
INSTITUTE FOR NUCLEAR STUDIES, TOKYO	INS
ISTITUTO SUPERIORE DI SANITA	ISS
GOSUDARSTVENNY I KOMITET PO ISPOL'ZOVANIYU ATOMNO	ITEF
JOINT INSTITUTE FOR NUCLEAR RESEARCH	JINR
KERNFORSCHUNGSANLAGE JUELICH	JUEL
NATIONAL LABORATORY FOR HIGH ENERGY PHYSICS, JAPAN	KEK
KHARKOV FIZIKO-TECHNICHESKII INSTITUT	KFTI
KHARKOV FIZIKO-TEKHNICHESKII INSTITUT	KFTLI
LOS ALAMOS SCIENTIFIC LABORATORIES	LA
LINEAR ACCELERATOR LABORATORY, ORSAY	LAL
LAWRENCE BERKELEY LABORATORY	LBL
LABORATORIO NAZIONALI DI FRASCATI	LNF
MAX PLANCK INSTITUT	MPI

RUTHERFORD LABORATORY	RL
UNIVERSITY OF WASHINGTON	RLO
STANFORD LINEAR ACCELERATOR CENTER	SLAC
SYNCHROTRON RADIATION SOURCE, DARESBURY	SRS
STANFORD SYNCHROTRON RADIATION LABORATORY	SSRL
STANFORD SYNCHROTRON RADIATION PROJECT	SSRP
UNIVERSITY OF CALIFORNIA	UCID
UNIVERSITY OF CALIFORNIA, LOS ANGELES	UÇLA
UNIVERSITY OF CALIFORNIA, RADIATION LABORATORY	UCRL
UNIVERSITY OF HAWAII	H1)

REFERENCES

- (1) G.V. Marr, I.H. Munro and J.C.C. Sharp, Daresbury Report DNPL/R24 (1972).
- (2) G.V. Marr, I.H. Munro and J.C.C. Sharp, Daresbury Internal Report, DL/TM 127 (1974).
- (3) G.D. Firth, Daresbury Internal Report, DL/CSE/TM 20 (1982)
- (4) Daresbury Laboratory Computer Users Guide. Available from Daresbury Laboratory User Interface Group.

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