

Editor: Tina Homan

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**NOTIS SYSTEMS INC. ANNOUNCES NEW CUSTOMIZED IMPLEMENTATION
TRAINING AND SUPPORT (CITS) PLAN**

NOTIS is pleased to announce a special support plan to assist both new and established customers with system implementation. This new plan was developed by staff in our Customer Services Division in response to inquiries and recommendations from customers requesting additional service from NOTIS.

The Customized Implementation Training and Support (CITS) plan is designed for those NOTIS libraries that desire a level of service and guidance beyond the basic level of support included in the purchase price of the software. Attachment #1 contains all the specifics of CITS.

FOCUS GROUPS HELD

One of the desires that we heard at the recent NUGM '88 meeting was that the users have an opportunity to review designs and specifications with the NOTIS staff before coding starts.

Since then (and by the time you read this), we have held two "focus group" meetings.

- * Future architecture of the NOTIS software
- * Serials control functionality

The first meeting on the basic architecture was held on July 27. A list of attendees is included (see Attachment #2). This group talked in very general terms about the architecture needed in the application of the 1990's. This group was asked to take a long-

term view (at least five years). The attendees shared freely their opinions on languages, machine resource utilizations, CICS, system performance, etc.

The second group had a very different orientation. They worked with us on:

1. Reviewing the specifications and plan for the support of the MARC format for Holdings and Locations (MFHL)
2. "Brainstorming" on future capabilities of the serials subsystem in NOTIS.

A list of attendees from this group is also included (see Attachment #3).

The NOTIS staff got lots of good advice from both groups. The meetings demonstrated again the wonderful cooperative spirit of the NOTIS users. Your willingness to share your expertise and your opinions is invaluable to us.

RECOMMENDED READING FOR PROGRAMMERS

Scott Fones, a programmer for the State Library of Pennsylvania, has supplied us with some recommended reading for programmers who are new to IBM Assembler, MVS, CICS, etc.

Assembly Language Programming and the IBM 360 and 370 Computers
Walter G. Rudd
1976 Prentice Hall
ISBN 0-13-049536-0
(Very good reference text. Includes use of macros and conditional assembly.)

Application Debugging
Robert Binder
1985 Prentice Hall ISBN 0-13-039348-7
(Very, very, very good book. Has mostabend codes with detailed reasons for the most common causes.)

PL I for Programmers
Robert Arthur Barnes
1979 North Holland
ISBN 0-444-00284-7
(Quick cookbook approach to dumps.)

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A list of various IBM manuals which Scott has found useful, and brief comments about them, is included in Attachment 4.

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SAS CLASS #2 TO BE OFFERED AT NOTIS TRAINING FACILITY

NOTIS will once again hold a 3-day intensive course in the use of SAS as an extraction utility. The course will cover all aspects of SAS code that are relevant to our Extract jobs, the design and operations of the Extract jobs, and a detailed look at the NOTIS record structure.

Each of the three days will be split into lecture sessions, and a hand-ons "Lab" section. In the lab sections each attendee will be running various forms of the SAS extract jobs on the NOTIS mainframe.

The purpose of this course is to help our users gain familiarity with some useful SAS coding procedures, the Extract jobs, and the record structure of NOTIS online data files.

Please notify Cassie Gibson if you are interested in this SAS course at: (312)-866-0127. This upcoming session has only a few more seats available, so early reservations are encouraged.

The cost of the SAS course is \$900 per person, \$600 per person if more than 1 person attends from a single site.

Course Objectives

1. To gain an understanding of basic SAS report code as well as a more thorough examination of the more complicated DATA PROC processing of the extraction jobs used against a NOTIS data base.
2. To gain an understanding of the NOTIS online record structure for the purpose of creating useful SAS programs with speed and efficiency.

Course Topics

1. SAS code. The structure of SAS code, how to code basic reports and utilities, and useful SAS functions.

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2. The NOTIS record structure and how to deal with the rather complex NOTIS files using the SAS language. Our approach to understanding NOTIS records will be through the DATA PROC section of the SAS code.
3. The NOTIS data extract programs. What they do and how they do it. Close examination of the code to gain an understanding of the processing and potential use of these extraction tools.
4. Using the NOTIS extraction programs, we will code and execute a variety of SAS report jobs against most of the NOTIS online files. These will be based on the NOTIS extraction jobs as well as the needs of individual attendees.
5. We will examine some methods for "tuning" your SAS jobs to run efficiently against your NOTIS data base. In addition we will explore a variety of methods for job submission and scheduling (e.g., interactive vs. batch jobs).

We feel there is a real demand for this type of information and education. Since it is the responsibility of each NOTIS site to create and customize its own collection of management and performance reports, a course such as the October course should speed the process of implementing a SAS report system for your NOTIS data base.

Course dates are October 24, 25, and 26.

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LIMITING DISPLAY OF RECORDS TO PARTICULAR OPERATORS AND/OR PARTICULAR TERMINALS

I [Jerry Specht] have had a mistaken impression about what the PROS= and PATR= parameters in the Service Unit table do. I'm afraid I've passed this on to others and would like to correct it here in this article. Thanks to Ron Vasaturo of NASA and Jerry Caswell of the University of Vermont for setting me straight about this.

I have been saying that the failure to include a processing unit in the PROS= list (or a patron group in the PATR= list) for a particular service unit prevents a terminal associated with this service unit from displaying records for that processing unit (or patron group). This is true only if all the processing units (or patron groups) for that institution group are excluded. In our own test files we have records for the LL processing unit which can be displayed despite the fact that LL is not in the PROS= list. They can't be displayed using 'LTLL', but they can be displayed using 'LTNU'.

In order to modify the records for the LL processing unit, one must use the transaction 'LTLL'.

What the service unit PROS= and PATR= parameters do is to limit the use of certain LTxx and LPyx transactions to particular terminals.

Thus, if you want the operators who are authorized to update Law Library records to be able to do so only from Law Library terminals, this can be achieved by excluding LL from the PROS= list for all non-Law Library terminals.

Similarly, you can prevent an operator from displaying the records for a particular processing unit (or patron group) by omitting the "RECORD=" entries in the LC104 table(s). The entry would look like the following:

NONE SECUR LAST=YES

This entry in the LC104TBL table will prevent those operators whose SECOPR statements point to it (either explicitly or by default) from displaying records associated with the LL processing unit using the LTLL transaction. (They get the message "REQUEST NOT AUTHORIZED.")

However, since the records are part of the same institution group as the NU records, an operator who is authorized to display NU bibliographic records will also be able to display LL records.

In summary, though the ability to update a record is determined by the security for the processing unit or patron group to which it belongs, the ability to display the record is controlled by the security of the transaction's processing unit patron group. And, though there is currently no way to limit the display of records for particular processing units or patron groups within an institution group to particular operators or terminals, cross-institution group display can be prevented.

NOTIS TABLE MAXIMUMS

A number of customers have recently asked questions about various maximums in the NOTIS tables.

For institution groups, processing units and patron groups, there is a absolute limit (per CICS region) of 676 (26 * 26 alphabetic characters). (As noted in IMP, chapter CLB, we discourage the use of numbers as the second character; the first character must be alpha.)

FCLA (the Florida Center for Library Automation) has 17 institution groups, 40 processing units, and 76 patron groups.

In the case of service units, the limit is lower. If the offset in the CWA is left at 1024, then the maximum number of service units (per CICS region) is 75. (The maximum WRKAREA size is 3584. The NOTIS constants take 136 bytes and each service unit takes 32 bytes. $3584 - (1024 + 136) = 2424$. $2424 / 32 = 75$)

If the LCxxxBAL programs are reassembled with an offset of 0, then the maximum number of service units is increased to 107.

FCLA has 76 service units.

The absolute maximum for locations is 32,768 per institution group. FCLA has 985 locations with 247 of those being part of a single institution group.

If you have reached a higher value in one of those categories, please let us know.

GERALD GINSBURG NEWEST SYSTEMS ENGINEER

Gerald Ginsburg joined NOTIS August 1 as a new MVS systems engineer. He is replacing Bill Easton who is moving to Conversion Services.

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ACCESSING QUEEN'S UNIVERSITY LIBRARY NETWORK

For information on Qline (Queen's University Library Network) see Attachment #5.

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INEXPENSIVE TABLE TOP THINKJET PRINTER STANDS

by Michaelle Biddle, Wesleyan University

Like many NOTIS installations, the CTW Consortium is using HP Thinkjet printers rather widely. We've found an inexpensive solution to the table top printer stand problem that seems worth sharing.

Available from Haworth (see Attachment #6), these units are described as paper organizers, are 2 1/2" H x 11" D x 12 3/8" W, and if turned upside down, make sleek table top Thinkjet printer stands. A box of 8 costs \$85 list. Our Haworth dealer gives us a 45% discount so each stand ends up costing us \$6.

UNIVERSITY OF SOUTH ALABAMA DUNKS CARD CATALOG IN DUCK POND

by Pat Ramage

The University of South Alabama Libraries have done away with their card catalogs. The Biomedical Library moved theirs into storage in 1985 after their retrospective conversion was completed. The University Library completed recon in late 1986, but kept the card catalog, which had been closed since mid-1983, in the Reference area as a better than nothing backup until March 1988. At that time the cabinets were lined up in a basement hallway: the first step toward the back door and OUT!

We used to joke about awaiting the day when we could push the card catalog into the duck pond next to the library. We've settled for an exit not quite that spectacular. This week all the cards were removed and packed in boxes (not in filing order). The cabinets will make a more dignified end than a dunking in the pond. They will continue to serve usefully in their new home in another library.

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REMINDER ABOUT CUSTOMIZED PROGRAMS

For all you wonderful people who have recuperated enough from your customized conversion process to contemplate sharing the results of your encounters with the rest of the NOTIS universe, please remember: any (and all) customized work done for an institution by NOTIS personnel is for the use of that institution only and cannot be shared with other institutions without the written consent of NOTIS. So, if you hear your neighbor down the

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country discussing a data problem which sounds similar to yours, resist that impulse to ship them a copy of your favorite customized program. Instead, tell them that NOTIS may be able to help them and suggest that they contact NOTIS to discuss the problem. You will be doing them a favor (just think how embarrassed you would be if your really neat program completely trashed their data because their problem was not as similar as you thought) and you will be doing yourself a favor if you keep your customized work for yourself and refer them to the people at NOTIS. Thank you for your cooperation.

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NOTIS USER DIRECTORY ORDER FORM

Each year we offer you an opportunity to purchase the NOTIS user directory. If you are interested in having this directory of all our users, please complete and mail Attachment #7 to us.

PAMELA SCHMID JOINS ADMINISTRATIVE OPERATIONS STAFF

Pamela Schmid started August 1 as the newest member of Administrative Operations. She is the bookkeeper accountant assisting with accounts payable receivable, bank reconciliations, and more.

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CHARLES WILLIAMS JOINS MARKETING DEPARTMENT

Chuck Williams is the new marketing coordinator. He is responsible for writing press releases, brochures, bid boilerplates, coordinating and writing RFP responses, and handling initial customer contact.

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**DOCUMENTATION SERVICES NEWS DOCUMENTATION SERVICES NEWS DOCUMENTATION
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DOCUMENTATION STAFFING CHANGES

Jim Meyer has decided to transfer to a writing position within Documentation Services. After a vacation, Jim begins his new duties (which include editing NOTISES) September 6.

Stuart Miller has been promoted to Manager of Documentation Services, effective August 22. We are very happy that Stuart will be joining the Customer Service management team and that NOTIS will still have Jim Meyer's expertise to draw upon as well.

Stuart can now be reached at 312/866-0171, Jim at 312/866-0173.

Tina Homan, User Documentation Specialist, announced on August 1st her resignation from NOTIS, effective August 31, 1988. Tina has accepted a technical writing position in another firm.

With Stuart's promotion and Tina's departure, NOTIS Documentation Services needs another writer. See Attachment #8 for a position description.

PHONE NUMBER CHANGE

If you are trying to call Sandie Yuen in Documentation Services, her phone number is: (312)-866-0150 x689.

POLICY ON REPLACEMENTS

If you receive a manual, an update document, or an issue of NOTISES from NOTIS Documentation Services that you believe is defective, please call Sandra Yuen at 312 866-0150 x689 and explain the problem. BITNET users can send a message to NOTISDOC@NUACC. If you in fact have a defective copy, we will send you a replacement immediately at no additional charge.

All material issued by NOTIS Documentation Services is copied, collated, and mailed by a commercial printer. Unfortunately, due to the large quantities, we cannot check every copy. You may occasionally receive an incorrectly collated update document, a manual with a missing page(s), etc. Please contact us if you believe you have a defective copy. We do not expect our customers to correct our printer's errors.

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DOCUMENTATION SERVICES MAKES COMMITMENT

Documentation Services has made a commitment to write and distribute all "asterisked" chapters in the documentation before the end of 1988. In practice, this means that the user updates for July, September, and November 1988 and January 1989 should complete the TOM manuals as they are presently planned.

We are also in the process of reorganizing all of the NOTIS user documentation and expect to have a plan in place for this project by December 1988. At the present time, we expect to compile functionally-oriented documentation (e.g., "Acquisitions Work Using NOTIS") by reorganizing existing chapters and incorporating new material so as to present you with more guidance in actually using NOTIS as well as telling you how to operate various features of the software. (An outline of this plan was presented to users for comment last January and was favorably received at a meeting of NOTIS users at the 1988 ALA Midwinter Conference.)

For example, to continue the above example on acquisitions, we would have sections describing (in chart form) the various NOTIS acquisitions records and how to create them. We would also have sections illustrating how to use these records for typical acquisition functions (e.g., how do you place an order for a title using NOTIS) without repeating the information on record structure, how to create an order record, etc.

The reorganization of the user documentation will be an involved and lengthy process, but you should begin to see some results of it in 1989.

If you have any comments or concerns please call or write Stuart Miller, Manager of Documentation Services at:

Stuart Miller
Documentation Services
NOTIS Systems, Inc.
1007 Church Street, 2nd Floor
Evanston, IL 60201-3622
(312)-866-0171

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ON THE ROAD

Dale Hood did Acquisitions training a Southeastern Louisiana University July 13-14. He went to Tulsa City-County Library for Bill and Fine beta test training July 19-20. He traveled to Indiana University for an implementation visit July 27-28.

Tom McGinn went to York University in Toronto for Advanced Cataloging training July 5-6. He went to the University of Windsor for a circulation implementation visit July 15 and to Queen's University in Kingston, Ontario July 27-29 also for circulation training.

Queen's University has implemented all NOTIS modules except serials control in a 9-month period between November 15, 1987 and August 9, 1988. This includes bringing up keyword and Boolean in the online public catalog and installing NOTIS 4.5.

NOTIS ELECTRONIC MAIL LIST AT BYU MERGES WITH NOTIS-L AT TULANE

The NOTIS electronic mail list hosted at BYU officially bit the dust August 1. It was merged with the NOTIS-L list hosted at Tulane.

TROUBLESHOOTING

This column is a regular feature of NOTISes. As we encounter problems which we plan to include in the Troubleshooting Guide (Appendix E to the I&O) we list them here in NOTISes so you won't have to wait until a new release in order to be aware of them. If you have suggestions, send them to Jerry Specht.

Note: it is our intention that you should take these troubleshooting pages and append them to the Troubleshooting Guide which you received in February, 1988. The problems have been, and will continue to be, assigned "temporary" numbers from V001-V999, so that they will be in sequence. We will periodically send out an updated index which will encompass both these problems and the ones already in the guide. Once per year we will send you an entirely new guide in which all of the problems which have appeared in NOTISes since the last publication of the guide will be integrated and assigned permanent numbers.

Problem: V082 LD525 (the fund audit report) cancels and you see the message "TABLE AREA NOT LARGE ENOUGH FOR ALL FUNDS" in the output

Possible Causes: This can be fixed by increasing the values in the =H'300' constant two lines after the label A010GET and again 20 lines after the label A010GET so that they are equal to or greater than the number of funds that the library has in its fund file. (Note: for these purposes each different fiscal year that the fund exists for should be counted. Example: the fund "BOOKS" has fund-fiscal-years of 87/88 and 88/89. This counts as 2.) If this number needs to be increased beyond 1999, consult NOTIS Systems Engineering.

In addition, two statements should be inserted immediately prior to the label A205 so that it looks like this:

```
          ST      R3,CURRORD
          C       R3,ENDORD      insert
          BNL     X004          insert
A205     DS      OH
```

The latter change and (probably) values for the "=H" higher than 300 will be included in the 4.5 version of LD525BAL.

Problem: V083 You get a message on the LB610 operations report that the action date in a particular item record has expired, but when you search for this item record you get the message "RECORD NOT ON FILE"

Possible Causes: Is the key that of an unlinked item record? Could it be that since the action date was set that it has been linked and that at the time of linking it had never circulated? If so, you get this message. (If the item had circulated, you get the message "RECORD REPLACED BY . . .")

Problem: V084 (4.4.4 or later only)

When a fund code beginning with "X" is blanked out in entering a gift order ("XPM=g"), you get an **abend 935C**. In the future we hope to have a program solution to this, but in the meantime it can be avoided by creating a dummy fund "GIFT", changing "FC=X...." to "FC=GIFT" (when you do this you will get an error message saying that you can't have a fund code for a gift), and then blanking out the fund code. The system will then accept it.

Thanks to Ron Curtis at Central State University for devising this method of circumventing the problem.

Problem: V085 In the output from LB320 (regenerate the standard number index) you see the message "SAVE AREA EXCEEDED" for certain records

Possible Causes: The number of fields eligible for indexing in these records exceeds the IXR# value in LB320BAL. As distributed this value is 20. To increase it, change the value at the label IXR# in LB320BAL from 20 to 40, 60, or whatever is necessary.

Problem: V086 (4.4.4 only)

On page I2 of the 4.4.4 installation instructions, under #6 (changes to PCT for DTB), it states that an alternative to specifying DTB=YES in the TYPE=ENTRY for individual transactions is to specify DTB=YES in the DFHDCT TYPE=INITIAL

Possible Causes: This should read "DFHPCT".

Problem: V087 The call number which is displayed for a linked item record when it is for a second copy which has no explicit call number is that from the first copy with the same class code rather than the "most recent". Example:

REMARc records (from Carrollton Press) which lack 008 fields. LB370 skips records which lack an 008. In order to include them you will need to change the 6th instruction after label All2 (in LB370BAL) from 'BHR R9' to 'BH All3'. This will be changed with Release 4.5, but as a general rule all NOTIS bibliographic records must have 008 fields.

Problem: V105 In running JCLLOAD you get a SOCl in step 3 (EXEC PGM=LUxxPGM)

Possible Causes: This occurs when LUxxPGM tries to write to a TNDX file that has not been redefined. The 4.4 version of the program can only write to an empty cluster. (The 4.5 version will be able to reuse all the KWB dictionary VSAM clusters, provided that they have been defined with the REUSE parameter.)

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LC Resource Loaders Package \$2,500
For Bibliographic records from LC
Provides the ability to load and update, through monthly tapes, bibliographic records from the Library of Congress. Includes the LC overlay capability.

LC Overlay \$1,000
Included in LC Resource package. Overlay can be purchased separately. Allows library to overlay incoming bibliographic data only.
(No holdings capability)

Serials Union List Loader (LBC60) \$5,000+
Allows the loading of serials union list records after they have been extracted from the OCLC union list system. NOTIS will send tapes to BNA for preprocessing (the '+' is the per record charge that BNA assesses), then those records can be loaded directly into the NOTIS system using the union list job stream. Includes the serials overlay package (see below).

Serials Check-in Loader (LBC50) \$10,000
Allows serials check-in records from the OCLC serials check-in system to be loaded into the NOTIS system. Records are first turned into 'pseudo-MARC' records then run through NOTIS intermediate steps before loading into the NOTIS database. Includes the serials overlay package (see below).

Serials Overlay - overlay for serials records \$1,000
Assumes an existing database. Records incoming from update tapes are matched to the database through the standard number index. If a match is found, the new record goes into one file and a copy of the existing record into another file. If no match is found, the new record is written to a separate file. In all cases, bibliographic records make up one part of the file and holdings the other part. The library can then choose how to update their existing file - bibs only or holdings only or both or old only or new only or any of several other combinations.

FOCUS GROUP on NOTIS ARCHITECTURE

O'Hare Hilton - July 27, 1988

- ATTENDING:** Jim Aagaard, Northwestern University
 Jack Duwe, University of Wisconsin
 Dale Flecker, Harvard University
 Alan Greenberg, McGill University
 Mark Hinnebusch, Florida Center for Library Automation
 Clark Johnson, University of Minnesota
 Art Lindeman, Indiana University
 Maithreyi Manoharan, Central State University
 Lynne Personius, Cornell University
 Peter Roll, Northwestern University
 Walt Sepaniac, Shell Oil Company
 Bob Thompson, York University
 Don Waters, Yale University

- STAFF:** Jane Burke, President
 John Kolman, Manager, Systems Development
 Gaye Preston, Mgr., Administrative Operations
 Jerry Specht, Chief of Systems Engineering
 Jack Turner, TBG Consultant
 Maribeth Ward, Vice President, Customer Relations

The following have been confirmed for the Serials Focus Group Meeting on August 10, 1988.

Brigham Young University	Mr. Dean Bennett
Burroughs Wellcome Co.	Ms. Gina E. Rains
Clemson University	Ms. Deana Astle
University of Illinois	Mr. Jim Mouw
University of Iowa	Ms. Caitlin Robinson
Northwestern University	Ms. Mary Case
Shell Oil Co.	Ms. Margaret E. Hundley
Tulane University Med. School	Ms. Cynthia H. Goldstein
University of Wisconsin - Madison	Mr. Richard Reeb
Mr. Nolan Pope will not be attending - vacation	

Wayne State University - (possibly)	Ms. Charlene Wecker
Ms. Louise Bugg will not be attending - vacation	

I B M Manuals

BAL -----

GA22-7000	IBM System/370 Principles of Operation	-Chap 7 has brief explanation of each BAL command, the layout as it appears in the printed assembly, cond codes, & prog exceptions. Very readable and easy to use. -Appendix B has summary tables of all commands in both alpha mnemonic and op code order. Both tables include summary characteristics and a page number for more info.
GC26-4057	MVS/370 Data Administration: Macro Instruction Ref	-Macros: Close, Dcb, Find, Get, Open, Put, Read, etc
GC28-0683	OS/VS2 MVS Supervisor Services and Macro Instructions	-Macros: Call, Freemain, Getmain, etc -SNAP is included and is a good way to print data for troubleshooting.
GC33-4010	OS/VS - DOS/VSE - VM/370 Assembler Language	-Has everything you ever needed to know but very hard to understand if you are a novice.
GC33-4021	OS/VS - VM/370 Assembler Programmer's Guide	-More general than 33-4010. Has info on the assembler, JCL, assembler listings, programming hints, macros
VSAM Macros - See VSAM		
CICS -----		
SC33-0071	CICS Installation and Operations Guide	-Install, customize, RDO, MRO, journals, dumps, JCT, FCT, etc
SC33-0079	CICS Application Programmers Ref Manual (Macro Level)	
SC33-0240	CICS Supplied Transactions	-CEMT, CSMT, CSSF, CSSN, etc
SC33-0241	CICS Application Programmers Ref Manual (Command Level)	-Two volume set
GX33-6047		
G00FS -----		
GC26-4067	MCS/370 Linkage Editor and Loader Messages	
GC26-4068	MVS/370 Utilities Messages	
GC28-1374	MVS/370 Message Library: System Messages Vol 1	-JES messages AHL-IEB
GC28-1375	MVS/370 Message Library: System Messages Vol 2	-JES messages IEC-ISG
GC38-1008	MVS/370 Message Library: System Codes	-System completion codes for the Abend macro & PSW wait state codes
See SORT for sort (ICE) errors		
INDEX -----		
GC26-4062	MVS/370 Data Facility Product: Master Index	-First place to look if you don't already have a good source.
GC33-0356	CICS Library Guide	

USER DOCUMENTATION WRITER

NOTIS Systems, Inc. has the following position opening. If interested please submit resume and cover letter to the contact individual listed at the Evanston address.

RESPONSIBILITIES: Write and edit user documentation manuals for the NOTIS integrated library management software system; edit drafts prepared by other staff members; create documents in the on-line documentation library; and contribute articles to NOTISes, the monthly users newsletter.

REQUIREMENTS: MLS degree or equivalent work experience highly desired. Demonstrated writing ability, preferably for software user manuals. Experience in an automated library system environment highly desired. Applicant must submit one or two (a maximum of two) appropriate writing sample(s).

SALARY: Starting salary range: upper \$20's plus full company benefits.

POSITION OPEN: Resumes will be accepted from August 23 - September 12.

CONTACT: Annmarie Utroska, Personnel Manager

NOTIS Systems Inc. is an equal opportunity employer.