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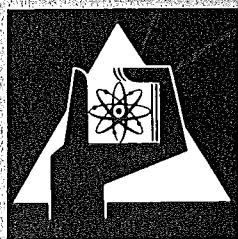
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Datenverarbeitungszentrale

**A Solution to TSO Data Base Problems.**

D. Schriefer, S. Wirtz



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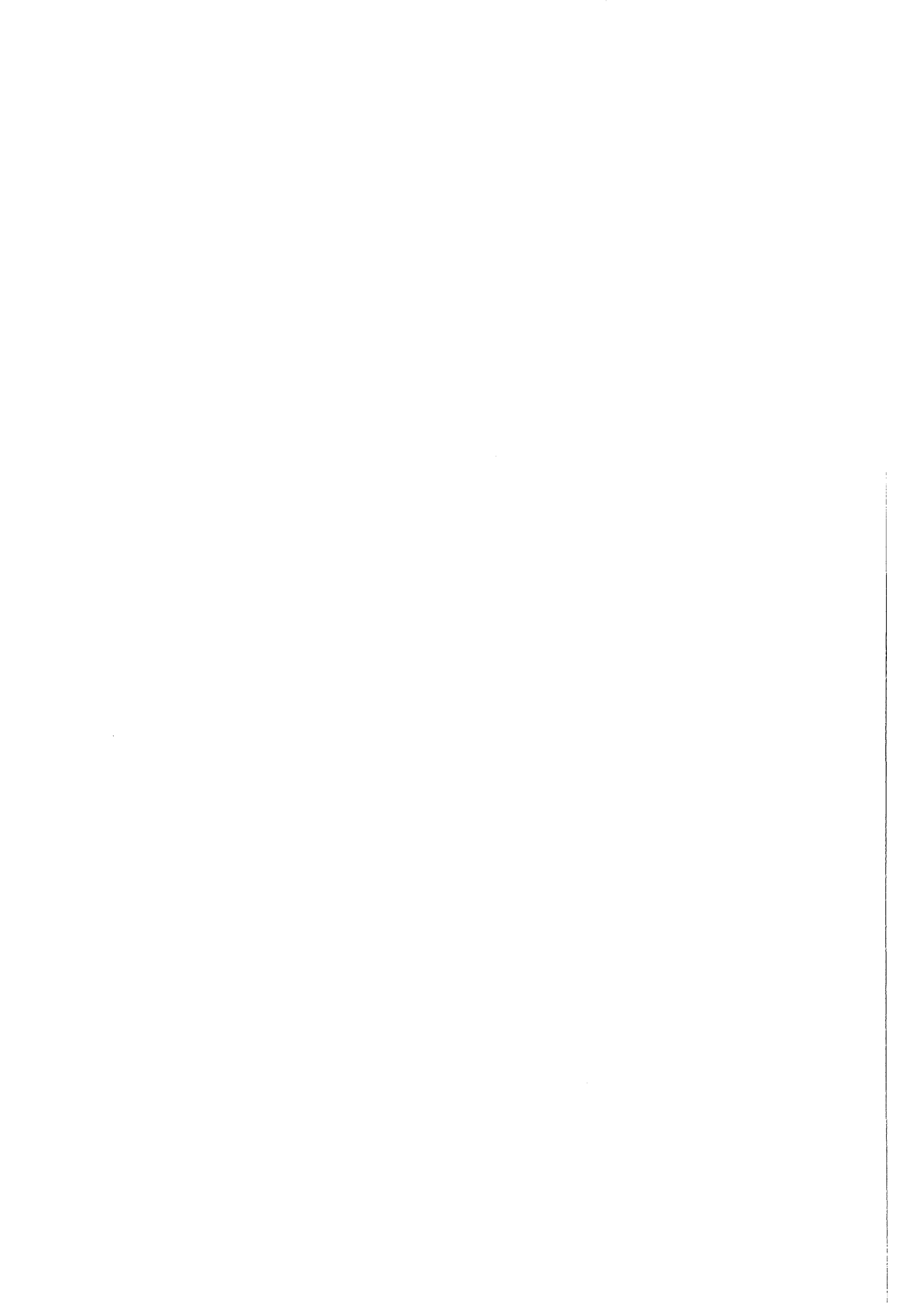
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A Solution to TSO Data Base Problems.

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## A Solution to TSO Data Base Problems.

### Abstract

The recently (at the beginning of 1972) introduced Time Sharing Option (TSO) to the IBM Operating System (OS) /360 on a model 65 has brought up the whole complex of managing an on-line data base.

The difficulties were increased by the fact that the IBM supplied TSO does not provide for any means of control for TSO user disc storage or its usage by the system management.

Observing the restriction to change as little TSO- and OS- modules as possible we found a way to automatically control the on-line space in the time sharing environment, and change the degree of access to the system for a particular user according to his quantity of occupied disc storage.

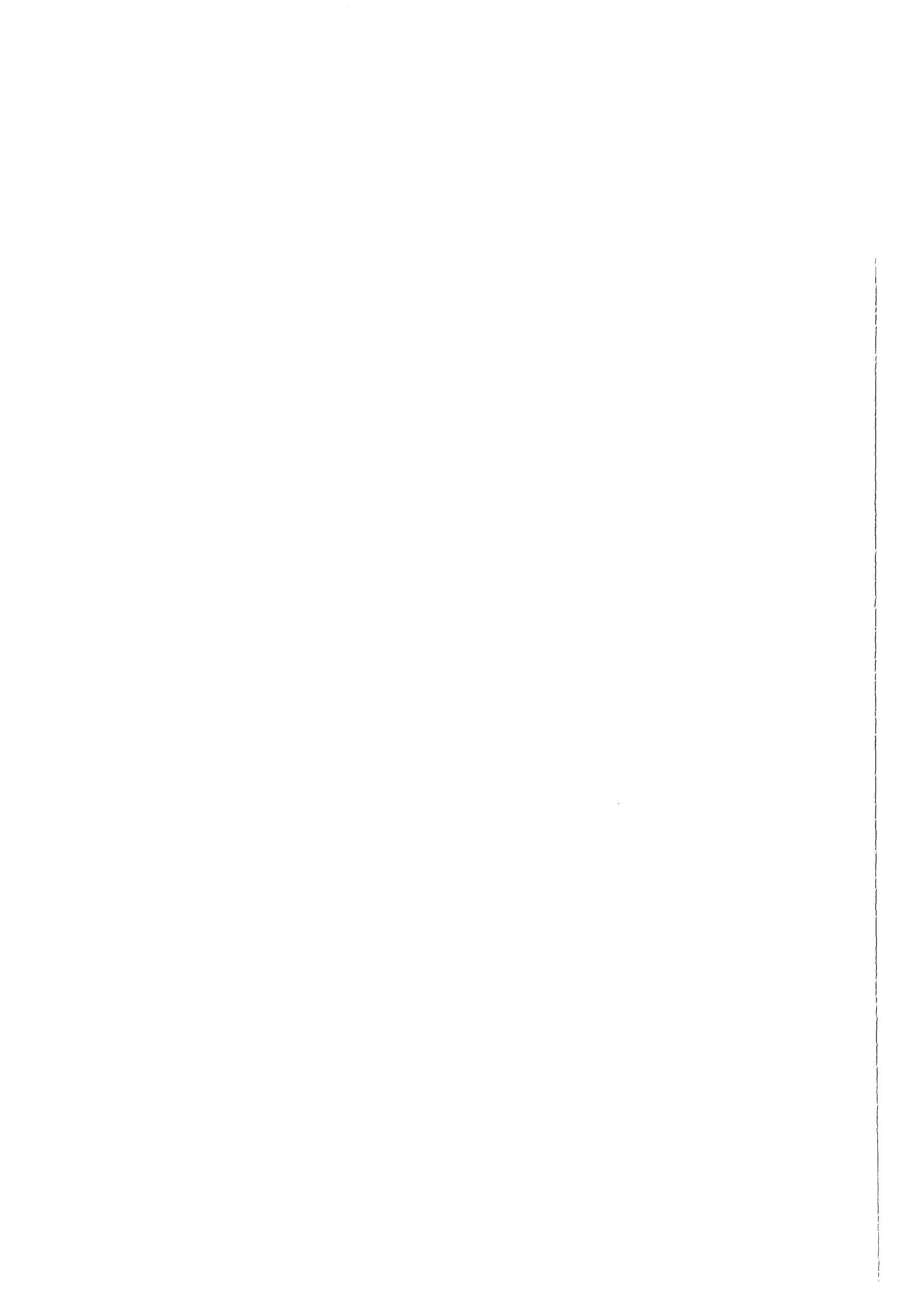
Eine Loesungsmethode fuer die Verwaltungsprobleme bei TSO-Hintergrundspeichern.

### Zusammenfassung.

Die zu Beginn 1972 eingefuehrte Time Sharing Option (TSO) fuer das IBM Betriebssystem OS/360 auf einem Modell 65 konfrontierte uns mit dem Problem der Verwaltung von direkt zugreifbarem ('on-line') Hintergrundspeicher.

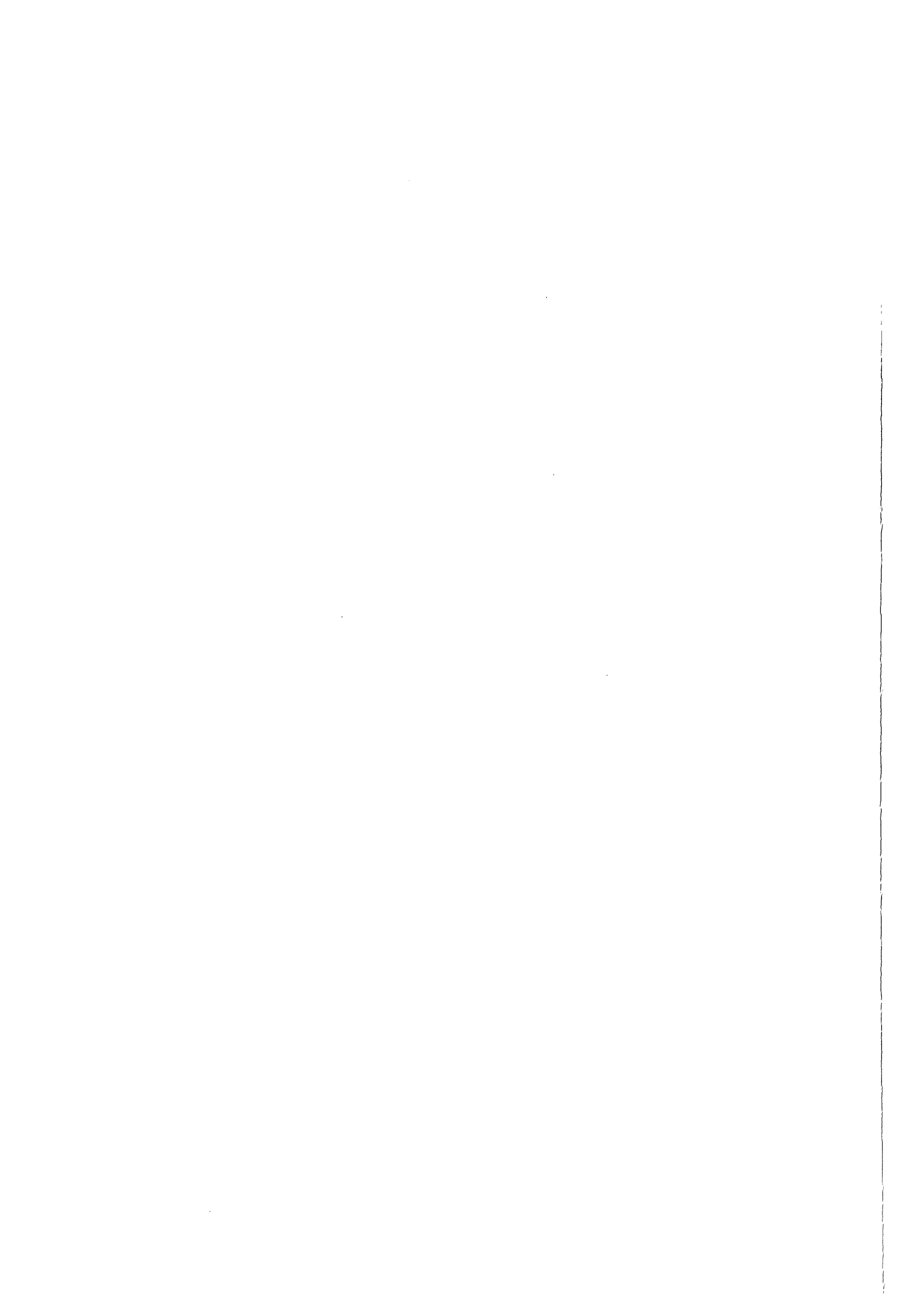
Die Schwierigkeiten wurden dadurch vergroessert, dass die von IBM gelieferte Version von TSO keine Methode fuer die Kontrolle der Benutzung von Hintergrundspeicher bereitstellt.

Mit der Beschraenkung so wenig TSO- und OS-Systemprogramme wie moeglich zu aendern, haben wir ein Verfahren entwickelt, das den dem Time Sharing zugeteilten Speicherplatz automatisch ueberwacht und in Abhaengigkeit von der individuellen Platzbelegung den Freiheitsgrad der Benutzung des gesamten Time Sharing Systems fuer jeden einzelnen Benutzer veraendert.



## A Solution To TSO Data Base Problems.

1. TSO and the GfK system.
2. Usage of on-line space.
3. Some criteria for an on-line space control system.
4. An approach to an on-line space control system.
  - Possibilities of control.
  - Installation conventions.
5. New command processors.
  - Command processors conventions.
  - The command processors ADDSPACE, CTRSPACE, and SPACE.
  - Other command processors.
6. The LOGON procedure KILL.
7. Appendix.





## 1. TSO and the GfK-TSO-System.

The Time Sharing Option (TSO) is an additional feature to IBM's Operating System OS/360 or /370. It provides for general purpose time sharing facilities which allow a terminal user to

- enter programmes and data, and store them for later use,

- test programmes written in FORTRAN, PL/1, ALGOL, COBOL, and Assembler Language - with special debugging aids in some of these language processors -, and

- run application programmes interactively.

Since OS/360 does not perform any automatic removal ('paging') of data from primary (memory) to secondary storage (direct access devices) TSO itself makes use of a swapping mechanism which can be controlled by the system management by changing the TSO-driver-parameters.

For keeping user data collections (programmes as well as actual user data) permanently or temporarily TSO needs more secondary storage capacity. This kind of storage must be controlled in a way that ensures acceptable response time in the time sharing environment.

Because of TSO being an additional facility to OS/360, it offers all OS data management access methods although the TSO command language supports only the sequential and partitioned ones. The data management routines include allocation, extension, transmission scheduling, and deletion of parts of or whole data sets. The data management routines are called from TSO via the Direct Access Interface Routine (DAIR). DAIR normally handles catalogued data sets, i.e. data sets whose names and storage volumes are kept in a central list, the catalogue.

Our TSO system runs on an IBM/360 model 65JK together with TCAM (Telecommunication Access Method), APLPLUS (an extension of APL/360) and an installation written file handling system with graphic support TCP (Terminal Control Programme).

An IBM LCS is attached to the one megabyte fast core, but up to now neither TSO nor TCAM makes any use

of it at all. In the near future it might be used for the TCAM Message Control Programme, servicing the terminal network on behalf of TSO.

There exists an ASP (Attached Support Processor) link between the model 65 and an IBM/370 model 165 with a 3 megabyte memory. In order to run jobs in the 'background', we use the IBM ASP group's TSO interface. All jobs submitted from TSO to the background are normally sent to the model 165 via a channel-to-channel connection, however, a user may insist on running a background job on the model 65 by specifying his request for ASP. The background jobs on the model 165 send results and messages to a small ASP communication task on the model 65, which catalogues background generated data sets on the model 65's own catalogues, and thus makes background results available to the TSO terminal user.

## 2. Usage of On-line Space.

OS/360 and TSO make use of four different types of on-line space:

- the system residence devices;
- the swapping devices;
- the scratch devices for temporary data storage;
- the user library devices for permanent data storage.

### The System Residence Devices.

The system residence devices contain data sets for system use only. All data sets are protected and the time sharing user cannot change or delete these data sets - unless, of course, careless mistakes are made by the computer operating staff.

Among the system residence data sets is the system or main catalogue, which is used to find existing user data sets. It contains names and locations of data sets or pointers to subcatalogues. Besides the main catalogue, the system residence volumes contain operating system parameter libraries, language and command processor modules.

### The Swapping Devices.

The swapping devices contain images of deactivated programmes which have been swapped out of memory.

Since memory is a very limited resource, not more than a few (usually 1 or 2, very seldom 3) TSO user programmes can be in memory at the same time (number of time sharing foreground regions). All other TSO user programmes - which have been interrupted for one or the other reason, e.g. waiting for terminal I/O or access to a data set, - are swapped out.

### The Scratch Devices.

The scratch devices contain temporary data, where temporary means that these data must not be kept for longer than the current terminal session. Typical temporary data sets are compiler workfiles or the workfiles for the FDIT command processor.

### The User Library Devices.

The user library devices contain data collections which usually remain in the system after a terminal session. They essentially contain user programmes and user data.

## 3. Some Criteria About an On-line System.

In a complex environment, like a mixed batch - time sharing one, there ought to be adequate schemes

-that ensure users and the installation that their data sets are kept safe - even confidential, if it is that which a particular user requires, and

-that ensures the users that sufficient secondary space is available - even though some users might try to 'grab' more than they are entitled to.

These control schemes ought to include all data set access initiated by batch as well as by time sharing activities.

OS/360 provides for some simple methods of protecting data by

-expiration date, against accidental destruction and

-password, against unauthorised access,

the latter only since recently - that is since TSO has been born into the world of OS/360 - /370 installations (Release 20). These means can be applied only to the basic units of logical data collections in OS/360 - the 'data sets'. Using 'password' protection increases system operating and maintenance difficulties enormously, but to some extents it protects data sets against unauthorised access.

But there are still no tools provided for adequate space control, despite the fact that TSO has increased the need tremendously. Time sharing users tend to 'forget' about their work data sets - data, they do not need to keep for more than a couple of seconds, minutes or hours. They create new data sets and leave it to the installation administration to find out which are the ones to be got rid of and which are the ones to be kept safe.

In principle, there is no difference between what batch and TSO users can do. But a batch user must have all his resources completely described before he gets any service; a time sharing user should have, but he does not have to. And this is the great advantage of time sharing as far as the user is concerned. If a batch job cannot be supplied with all his resources, the system will print a message and finish off without trying to run the job at all. In particular, the system knows in advance about all temporary space required, it can release space no longer needed after termination of a job or job step in order to assign it to another job.

In the time sharing environment the system still has control over all its resources. But the terminal user can, for instance, dynamically allocate new data sets during a session without having told the system so at the beginning of his session. This is quite a powerful tool, but it can also lead to difficulties for the installation when used by an unexperienced user, e.g. he can create many large data sets in a very short space of time without being aware of it.

The system, which actually does the allocation for the user, can either accept the request or refuse it. The user would not accept a refusal without knowing about the reason. And telling him, that the entire on-line space has been used up by others, would certainly not satisfy him, because he wants his own piece of the cake. So, the space administration must be a user specific one. He must be told that he has used up his quantity of on-line space and, consequently, cannot have any more. On the other hand, his quantity must be guaranteed, so that he can rely on his share of space and can efficiently work with the whole system.

#### 4. An Approach To An On-line Space Control System

##### Possibilities of Space Control.

There are different ways to introduce an on-line space control scheme depending on the level of efficiency. One can think of three different levels:

- control all available on-line space system-wide;
- control all available on-line space within TSO;
- control all on-line space that remains occupied for a certain amount of time (permanently occupied).

Some installations might feel a need to administrate all on-line space system-wide. For our installation the difficulties arising with this type of space control (significant changes in operating system modules, performance degradation for all users - including batch) were out of proportion to what we wanted. There is no need to control our batch users because of the system of usage of our on-line storage volumes: the system residence volumes contain protected system libraries and thus are not available for user creation of data sets. All other libraries (except for TSO and scratch) are shared among groups of users, and these libraries are assigned to the user groups and preallocated on dedicated volumes by the installation. The scratch volumes are regularly cleaned. With these rules we did not have any problems before TSO was introduced, and therefore we had no reason to change the conditions for the batch users (which is the majority of our users, anyway) - who never use TSO and who do not care about TSO.

Controlling all available TSO on-line space was the actual aim. Theoretically, this includes permanent as well as temporary data sets on volumes dedicated to TSO. In order to understand at which times actions for space control become necessary, look at a list of TSO data set allocations:

Allocation Stage 1 (not user-specific).

non-temporary  
(permanent)

- TSO driver parameter lib.,
- user attribute data set,
- TSO message data set,
- LOGON procedure libraries,
- swap data sets;

temporary

- TSO dump data set,
- system dump data set  
(both may require 'new'  
on-line space);

Allocation takes place whenever TSO is brought up. At this stage no space control is necessary.

Allocation Stage 2 (user-specific).

non-temporary  
(permanent)

- HELP - libraries,
- command procedure lib.,
- libraries for automatic  
lib. call during LINK and  
LOADGO,
- default I/O data sets  
(which might require 'new'  
space if data sets are al-  
located rather than terminal  
files);

temporary

- primary EDIT workfile  
(requires 'new' space);

Allocation takes place whenever a user logs on. By specifying a procedure name in the LOGON command he selects a special set of allocations. The primary EDIT workfile will be deleted after the end of a session or after some operations of EDIT during which a secondary EDIT workfile will be created. But in order to guarantee each user an amount of space he can work with, we allocate the workfiles on dedicated 'workfile' (scratch) volumes.

### Allocation Stage 3 (user-specific).

#### non-temporary (permanent)

- object code for language processors: FORT, ASM, PLI, and PLIC,
- load code after LINK,
- resulting data sets after MERGE, COPY, FORMAT,
- 'permanent' copy of EDIT workfile after SAVE,
- arbitrary data set after ALLOCATE, with name specified;

#### temporary

- secondary EDIT workfile, created by EDIT subcommands MERGE, RENUM, and FORMAT,
- workfiles for language processors,
- object code after RUN,
- arbitrary data sets after ALLOCATE, without a data set name specified;

These are the dynamic allocations. The terminal user issues a command or subcommand to request action of the allocation service routines. All allocations in Stage 3 normally require 'new' space, unless an operand (where applicable) OLD or SHR is specified or an existing data sets is to be overwritten. In the latter case new data set extents might become necessary, so even then the amount of used space will be extended.

Allocations for temporary space are routed to scratch volumes, since they do not remain in the system after the user's LOGOFF.

In order to achieve registration of all 'new' space allocated at the above mentioned occasions (stage 3), it would be necessary to modify not only the Dynamic Allocation Interface Routine (DAIR) but also some Direct Access Data Set Management (DADSM) modules.

There are two ways of keeping track of the amount of user-allocated space:

After notification of a user's request for space, we can compute all his space previously allocated. This would obviously take a lot of time during each allocation and therefore it would decrease allocation performance enormously.

The other way is to look up his previously allocated space in a 'keep-list'. This amount plus what he requires now, must then be compared with a limit of allowed space. Then - if the user may have what he wants - we had to hand his request to the OS allocation routines and see whether the OS supplies what he has asked for or not. If his request was successful, we must eventually update the look-up table.

Both ways, computing all of a user's allocated space, or consulting and updating a look-up table at each allocation, would add an unbearable amount of overhead to the allocation management. Both solutions require a tremendous amount of changes to OS and TSO modules, which exceeds the capacity of our implementation and maintenance staff. Thus, we decided to count the user's permanent space only once a session, which - in order to make him respond - takes place at the beginning of each session.

In achieving our aim and observing objective and constraints, we had to introduce some conventions for our TSO users.



## Installation Conventions.

In the time before TSO was introduced to the users of our installation, no user was allowed to allocate his own permanent data sets. Groups of users shared preallocated libraries - if they had to. There was a very limited number of users who knew how to maintain a library. This situation had to be changed with TSO, unless the installation did not intend to take advantage of useful features like, for example, the TSO data set type qualifiers.

Since we did not want to change this situation for the normal batch user (who had never heard of TSO) but on the other hand wanted to keep track of the data sets allocated by a specific user (for example with the help of the first qualifier of the data set name), we introduced some restrictions to TSO user's permanent data sets:

- the data sets must reside on TSO dedicated volumes. This can be achieved by using the unit field in the user attribute data set (UADS). At the end of 1972 we used four IBM 2316 disc packs as user library volumes for some 170 users.

- the data sets must follow the TSO naming conventions. This means that the first index of the data set name must be the owner's (by definition: the creator's) user identification.

In order to separate catalogue entries for system data sets from TSO user data sets, we established a special TSO subcatalogue, the main catalogue having only index pointers for each authorised user. People with no pointer in the main catalogue must not allocate space, because their allocation will imply a full data set entry instead of an index entry in the main catalogue, which - together with the data set - will be scratched.

In order to keep the user library volumes clean, we established a special scratch programme: all the data sets which reside on library volumes but do not have all the above properties, will be deleted. This scratch programme can be run once a week, every day or more or less frequently. We are quite satisfied with running it once a week but we might begin running it more often with the increasing number of users, some of whom either flaunt, or through ignorance, break our conventions.

Temporary data sets, on the other hand, are kept strictly separated from the permanent data sets. They are kept on dedicated scratch volumes. This includes all

compiler workfiles, which initially were intended (by IBM) to reside as well on volumes pointed to by the unit field in the user attribute data set, but we decided to have them on the scratch volumes. The scratch volumes are cleaned off after each Initial Programme Load (IPL). At the moment we use two IBM 2316 disc packs as scratch volumes.

With these rules it is possible to control automatically the space allocated by a user. As already mentioned we compute the allocated and used space right after LOGON without the user noticing it, making use of the fact that the first index of each data set name is the owner's identification. The calculated space is compared with a predefined limit. The limit is user specific, too (and can be different to the standard value). When a user exceeds his limit, he is immediately logged off, otherwise processing continues normally. In the first case, however, we give him the possibility to log on again with a special LOGON procedure which allows him to reorganise his data sets.

With this form of control the user can work freely during a session, even allocate large permanent data sets. We believe it is more advantageous than inconvenient, especially, when a user tests a programme. So, the only thing, which the user must keep in mind, is to make sure that he is within his limits by the end of the session, in order to avoid wasting time during the following LOGON.

To realise this type of control and to enable the user to check the amount of space he has already allocated, a few new command processors had to be written. But concerning changes to OS and TSO modules: there are no changes to OS modules at all, and changes to TSO modules were kept to an absolute minimum.

## 5. New Command Processors.

### Command Processor Conventions.

TSO command processors are assembler/360 written programmes which perform computing functions requested by the user at the terminal. They get control from the Terminal Monitor Programme (TMP) through ATTACH. The TMP itself is attached by the LOGON/LOGOFF scheduler at logon-time, and provides the interface between the user, command processors, and the time sharing control programme.

Most of the command processor's are reentrant which is not required unless the installation wants to make them resident in either the OS- or the time sharing link pack area. When not resident they run in the user's foreground region and participate in the swapping; this, of course, decreases the performance.

The interface between the TMP and the command processors is standardised, it does not depend on which command is to be attached. The interface is achieved by a control block, the command processor parameter list (CPPL), located in subpool 1 (read-only storage for the command processor), and pointed to by register 1 on entry to the command processor. This well defined interface makes it possible for an installation to write its own command processors without any changes to the (IBM supplied) TMP, thus avoiding difficulties when introducing new releases or operating systems.

The Command Processors ADDSPACE, CTRSPACE, and SPACE.

The two command processors ADDSPACE and CTRSPACE are the basic ones of our concept. They set up the user limits and accumulate all allocated space quantities for a user. The third processor is for user convenience only.

ADDSPACE.

Syntax:

ADDSPACE 'user-identification' <C('int')/A('int')>

where 'user-identification' must be a valid TSO user identification, and 'int' is an integer number not greater than 15.

This command can be used only by users who are authorised for the ACCOUNT command. It is used to set the space limit for one particular user. Since all user characteristics are contained in the user attribute data set, ADDSPACE resets the given space limit value to a valid user entry in the UADS, using the installation field in each entry.

With ADDSPACE one adds (A) or changes (C) the maximum quantity of direct access space the user is allowed to allocate. The limit is defined as a multiple of a basic quantity (at the moment: 100 tracks on an IBM 2316 disc pack), the factor being the 'integer' specified in the ADDSPACE command (as the factor cannot be greater than 15, the absolute maximum for the limits is 1500 tracks for a user). If not specified the command processor ADDSPACE uses a default value of 2, which is a standard value for each user in our installation. That is, the average user can allocate up to 200 tracks on a 2316 pack. The limit can be adjusted to a larger requirement.

CTRSPACE.

This command is placed in the parameter field of all except one LOGON-procedures. It is called by the TMP right after the LOGON/LOGOFF scheduler has finished the logon processing successfully. It is executed before the user gets control at the terminal.

Syntax:

CTRSPACE

After some housekeeping the processor links to the central routine (module DSSPACE) of the space control system. This routine computes the allocated and used space for every catalogued data set 'belonging to the

user', i.e. with the user's user-identification at the beginning of the data set name, and sums it up. Upon return to CTRSPACE, the total amount of allocated space is compared with the limit value in the UADS.

Whenever the user exceeds the previously set limit (by the installation, using ADDSPACE) the command processor CTRSPACE posts the TMP for LOGOFF after sending a message to the terminal. The message tells the user what he can do now: 'ENTER LOGON WITH THE PROCEDURE 'proc-name''. 'proc-name' is the name of the only one logon procedure not having CTRSPACE in the parameter field, thus not checking the amount of allocated space. The name of this logon procedure is currently KILL.

In order to prevent a user from dodging CTRSPACE, for example, by pressing the attention key, we established our own STAX EXIT routine. This routine gets control first if an attention interrupt occurs, and - after sending a message to the terminal - it posts the TMP for LOGOFF.

### SPACE.

This command may be used by the terminal user in order to check how much space he has allocated and how much he has used.

Syntax:

SPACE <'dsname'/ALL>

Typing the operand ALL the user gets a list of his data sets, showing the allocated and used space in tracks for each data set, and the names of the volumes on which the data set resides. Using the operand 'dsname' the user can request this information for a specific data set. Entering the command without a parameter, it displays the total amount of allocated and used space for this user.

SPACE also links to the central routine DSSPACE which performs the actual space control functions; after return from DSSPACE it routes all information to the terminal. We strongly recommend to use SPACE at least at the end of each session in order to avoid trouble while attempting to log on with too much space allocated.

## The Command Processors COMPRESS and RELEASE.

These two command processors were implemented in order to supply the terminal user with some tools to get within his space limit after having exceeded it.

### COMPRESS.

With the COMPRESS command a user can compress partitioned data sets. He can pack a partitioned data set, because space of a deleted member usually is not used again, unless the deleted member is the physically last one in the data set.

#### Syntax:

COMPRESS 'dsname' LIST/NOLIST

'dsname' is the name of the partitioned data set which is to be compressed. The operand LIST implies a listing of the names of the members of the partitioned data set to be printed on the terminal. If the NOLIST operand is supplied, no printed output, except the system return code, appears on the terminal. LIST is the default operand.

After some formal checks the processor allocates dynamically the files required by the IBM system support utility IEBCOPY which then gets control through link, in order to achieve a copy in place. It is particularly useful for libraries when members have been replaced or deleted quite often; the data set after compression does not require as much space as before.

## RELEASE.

The RELEASE command is useful in releasing unused but allocated space for a data set.

Syntax:

RELEASE 'list-of-dsnames'

'list-of-dsnames' is a list of names of existing data sets, whose unused space is to be released. The list may consist of only one data set name.

The data sets may be sequential or partitioned.

### 6. The LOGON Procedure KILL.

Any user who has exceeded his limit of allocatable space cannot log on with any of the normal LOGON procedures. If he tries, he will receive the message, that he has exceeded his space limit and that he can log on only with a special procedure, whose name is 'KILL'. Then the system will automatically log him off. This will happen as long as his amount of allocated space exceeds his limit.

So, in order to reorganise his data sets the user has to log on with the procedure KILL. This procedure does not check the amount of allocated space after LOGON. This procedure does not permit all TSO commands, but only a very limited subset of them. This subset consists only of data management commands, which provide the necessary tools for the terminal user to get back to the rules, i.e. to decrease the amount of allocated space until it is under the user's limit. The subset consists of the following commands:

LIST, LISTDS, LISTCAT, SPACE, DELETE, LISTALC,  
HELP, RELEASE, COMPRESS, LOGON, and LOGOFF.

In order to prevent a user from using commands other than these listed above, the command name scanner used with the procedure KILL had to be changed slightly. The modification consists of an exit in control section IKJEFP30 of module IKJSCAN. This exit gives control to a new routine IKJEFP3W which either validates the command name or flags it as invalid. In the latter case IKJSCAN tells the terminal user that he used an incorrect command. In order to call the modified IKJSCAN module instead of the original one (which must be used with all other LOGON procedures), we use a STEPLIB-library in the procedure KILL which contains the modified module together with IKJEFP3W.





## 7. APPENDIX

The following pages contain assembly listings of the TSO on-line space control system modules as of the running version of August 8th, 1973.



SYMBOL TYPE ID ADDR LENGTH LD ID

EXTERNAL SYMBOL DICTIONARY

PAGE 1  
09.49 8/10/73

CTRSRSPACE SD 01 000000 000834

-  
1  
-

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000000				1	CTRSPACE CSECT		00000010
				2	* THIS COMMAND PROCESSOR IS THE FIRST ONE TO BE EXECUTED RIGHT AFTER		00000020
				3	* LOGON; ITS NAME IS PLACED IN THE PARM FIELD OF THE LOGON PROCEDURES		00000030
				4	* (WITH THE EXCEPTION OF THE PROCEDURE KILL). IT LINKS TO THE MODULE		00000040
				5	* DSSPACE WITH PARM=X'01'. DSSPACE RETURNS THE ALLOCATED AND USED SPACE		00000050
				6	* IN THE ALLOC AND USED FIELDS. THE UADS ARE READ AND THE ALLOCATED		00000060
				7	* SPACE IS COMPARED WITH THE USER SPECIFIC UPPER LIMIT; WHENEVER THE		00000070
				8	* USER IS ABOVE HIS LIMIT, THE CP SENDS A MESSAGE AND POSTS THE TMP		00000080
				9	* FOR LOGOFF.		00000090
				10	PRINT NOGEN		00000100
				11	SAVE (14,12),,CTRSPACE		00000110
				16	** R13 BASIS REG. AND SAVE AREA POINTER		00000120
				17	** R2 BASIS REG. FOR CPPL DSECT AND FOR ECT DSECT		00000130
				18	** R11 BASIS REG. FUER STAX EXIT ROUTINE		00000140
				19	** ON ENTRY R1 POINT TO THE CPPL		00000150
000012	183D			20	LR 3,13		00000160
000014	41DF 001C		0001C	21	LA 13,SAVE-CTRSPACE(15)		00000170
00001C				22	USING SAVE,13		00000180
000018	47F0 D048		00064	23	B START		00000190
				24	****		00000200
00001C	0000000000000000			25	SAVE DC 18F'0'		00000210
				26	****		00000220
000064				27	START EQU *		00000230
000064	50D3 0008		00008	28	ST 13,8(3)		00000240
000068	503D 0004		00004	29	ST 3,4(13)		00000250
00006C	1821			30	LR 2,1 POINTER TO CPPL		00000260
000000				31	USING CPPL,2 ESTABLISH ADDRESSABILITY FUER CPPL		00000270
00006E	5020 D7E8		00804	32	ST 2,ACPPL		00000280
000072	5830 200C		0000C	33	L 3,CPPLECT		00000290
000076	5030 D7F8		00814	34	ST 3,ECTPTR SAVE POINTER TO ECT		00000300
00007A	41B0 D2C0		002DC	35	LA 11,AEXIT		00000310
0002DC				36	USING AEXIT,11 ESTABLISH ADDRESSABILITY FOR STAX EXIT		00000320
				37	* ROUTINE		00000330
				38	** SET UP ATTENTION HANDLING EXIT		00000340
				39	STAX AEXIT,0BUF=(OUTBUF,33),REPLACE=NO,MF=(E,STAXLIST)		00000350
0000A4	9200 B0D0	003AC		50	MVI POINTER,X'00'		00000360
0000A8	5860 2008		00008	51	L 6,CPPLPSCB R6: POINT TO PSCB		00000370
0000AC	9601 B534	00810		52	OI PARM,X'01' SET PARM BIT FUER PLSPACE		00000380
0000B0	1B77			53	SR 7,7		00000390
0000B2	4376 0007		00007	54	IC 7,7(6) GET LENGTH OF USER ID		00000400
0000B6	0670			55	BCTR 7,0 DECREASE OF 1 VOR PLSPACE		00000410
0000B8	4470 B06C		00348	56	EX 7,MOVE1 MOVE USER ID IN DSN FUER FIND		00000420
0000BC	4470 B072		0034F	57	EX 7,MOVE1 MOVE USER ID IN USER FUER PLSPACE		00000430
0000C0	4177 0001		00001	58	LA 7,1(7) RESET LENGTH OF USER ID		00000440
				59	***** LINK TO DSSPACE TO COMPUTE ALLOCATED SPACE *****		00000450
				60	LINK EP=DSSPACE,PARAM=(USER,ALLOC,USED,PARM,ACPPL),VL=1		00000460
				77	** ENQ ON UADS SHARE		00000470
				78	ENQ (QNAME,RNAME,S,8,SYSTEM),RET=HAVE		00000480
000106	12FF			89	LTR 15,15 ALREADY ENQ FOR THIS TASK?		00000490
000108	4770 D0F4		00110	90	BNZ ENQ YES BRANCH		00000500
00010C	9640 B0D0	003AC		91	OI POINTER,X'40' SET POINTER FOR ENQ		00000510
000110				92	ENQ EQU *		00000520
000110	4180 B0A4		00380	93	LA 8,DSN		00000530
000114	4187 8000		00000	94	LA 8,0(7,8) GET POINTER TO FIRST BLK. IN DSNAM		00000540
000118	92F0 8000	00000		95	MVI 0(8),X'F0' MOVE EXTEND NUMBER IN DSN		00000550
				96	** OPEN UADS,FIND HEADER BLOCK FOR USERID AND READ IT		00000560
				97	** ALLOCATED SPACE > USER LIMIT ?		00000570
				98	** YES BRANCH TO DELETE		00000580
				99	** NO MOVE ALLOCATED SPACE INTO BUFFER REWRITE HEADER BLOCK		00000590
				100	**		00000600



LOC	OBJECT CODE	ADD*1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
				272	DEQ (QNAME,RNAME,8,SYSTEM),RET=HAVE		00001520
000316	94BF 80D0	003AC		283	NI POINTER,X'BF'		00001530
00031A	9110 80D0	003AC		284	NODEQ TM POINTER,X'10'		00001540
00031E	4780 8056		00332	285	BZ NOCLOSE		00001550
				286	CLOSE UADDCB		00001560
00032E	94EF 80D0	003AC		292	NI POINTER,X'EF'		00001570
000332				293	NOCLOSE EQU *		00001580
000332	5820 8538		00814	294	L 2,ECTPTR GET POINTER TO ECT		00001590
000000				295	USING ECT,2		00001600
000336	18FF			296	SR 15,15		00001610
000338	50F0 2000		00000	297	ST 15,ECTRCDF		00001620
00033C	9108 80D0	003AC		298	TM POINTER,X'08' IS POINTER FOR LOGOFF SET		00001630
000340	078A			299	BCR 8,10 IF NO RETURN		00001640
000342	9610 201C	0001C		300	OI ECTSWS,X'10' SET LOGOFF SWITCH		00001650
000346	07FA			301	BR 10		00001660
				302	*****		00001670
000348	D200 80A4 6000 00380 00000			303	MOVEL MVC DSN(0),0(6) MOVE USERID IN DSN FUER FIND		00001680
00034E	D200 8078 6000 00354 00000			304	MOVEL1 MVC USER(0),0(6) MOVE USERID FUER DSSPACE		00001690
000354	4040404040404040			305	USER DC CL44' '		00001700
000380				306	DS OD		00001710
000380	4040404040404040			307	DSN DC CL44' '		00001720
0003AC	00			308	POINTER DC X'00'		00001730
0003AD	C5D5E3C5D940D3D6			309	MESS1 DC CL35'ENTER LOGON WITH THE PROCEDURE KILL'		00001740
0003D0	D9C5E3D9E840D3D6			310	MESS2 DC CL24'RETRY LOGON ERROR'		00001750
0003E8	D6D7C5D5			311	ER1 DC CL4'OPEN'		00001760
0003EC	C6C9D5C4			312	ER2 DC CL4'FIND'		00001770
0003FD	E2E8D5C1C4			313	ER3 DC CL5'SYNAD'		00001780
0003F5	000000						
0003F8	0000000000000000			314	IOPLADS DC 4F'0'		00001790
000408	00000000			315	ECBADS DC F'0'		00001800
00040C	D2C5C9D540C1E3E3			316	OUTBUF DC C'KEIN ATTN BEI LOGON ENTER LOGON '		00001810
00042E	0000						
000430	0000000000000000			317	UADBUF DC 200F'0'		00001820
000750	E2E8E2C9D2D1E4C1			318	QNAME DC C'SYSIKJUA'		00001830
000758	D6D7C5D5E4C1C4E2			319	RNAME DC C'OPENUADS'		00001840
000760	00000000			320	TEXT DC F'0'		00001850
000764	0000000000000000			321	DC 10F'0'		00001860
				322	STAXLIST STAX AEXIT,MF=L		00001870
				331	PUTBLOCK PUTLINE MF=L		00001880
				336	UADDCB DCB DDNAME=SYSUADS,MACRF=(R,W),DSORG=PD,SYNAD=EXIT		00001890
000804	00000000			387	ACPPL DC F'0'		00001900
000808	00000000			388	ALLOC DC F'0'		00001910
00080C	00000000			389	USED DC F'0'		00001920
000810	00			390	PARM DC X'00'		00001930
000811	000000						
000814	00000000			391	ECTPTR DC F'0'		00001940
000818	0064			392	MIN DC H'100'		00001950
				393	UADREAD READ UADDECB,SF,,,,S',,MF=L		00001960
000830				402	IDLEN OS F		00001970
				403	IKJCPPL		00001980
				414	IKJECT		00001990
				442	END		00002000

## RELOCATION DICTIONARY

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POS.ID	REL.ID	FLAGS	ADDRESS
01	01	0C	0000C8
01	01	0C	0000CC
01	01	0C	0000D0
01	01	0C	0000D4
01	01	08	0000D9
01	01	0C	0000E0
01	01	0C	0000FC
01	01	0C	000100
01	01	08	000121
01	01	0C	000280
01	01	0C	00030C
01	01	0C	000310
01	01	08	000329
01	01	0C	00078C
01	01	0C	0007E4

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ACPLL	00004	000804	00387	0032 0069
AEXIT	00004	0002DC	00257	0035 0036 0041 0262 0324
ALLOC	00004	000808	00388	0065 0143 0146
CLEAR	00001	0002FC	00269	0192 0242 0264
CPPL	00001	000000	00408	0031
CPPLCBUF	00004	000000	00409	
CPPLCCT	00004	00000C	00412	0033 0208
CPPLPCB	00004	000008	00411	0051
CPPLUPT	00004	000004	00410	0207
CTRSACE	00001	000000	00001	0021
DELETE	00001	000222	00194	0145
DIRER	00001	00029E	00232	0117
DSN	00044	000380	00307	0093 0113 0303
ECBADS	00004	000408	00315	0205 0213
ECT	00001	000000	00415	0295
ECTATRM	00001	000020	00433	
ECTDDNUM	00003	00001D	00438	
ECTIDWA	00004	000004	00425	
ECTLOGF	00001	000010	00435	
ECTMSGF	00001	000008	00426	
ECTNMAL	00001	000008	00436	
ECTNNOT	00001	000004	00437	
ECTNOPD	00001	000080	00432	
ECTPCMD	00008	00000C	00429	
ECTPTR	00004	000814	00391	0034 0294
ECTRCDF	00001	000000	00422	0297
ECTRTCD	00003	000001	00423	
ECTSCMD	00008	000014	00430	
ECTSMG	00003	000009	00428	
ECTSWS	00001	00001C	00431	0300
ECTUSER	00004	000020	00439	
ENQ	00001	000110	00092	0090
ERROR	00001	0002AE	00237	0231 0234
ER1	00004	0003E8	00311	0230
ER2	00004	0003EC	00312	0233
ER3	00005	0003F0	00313	0236
EXIT	00001	0002A8	00235	0373
IDLEN	00004	000830	00402	
IHB0002A	00002	000096	00046	0047
IHB0002B	00006	000098	00047	0045
IHB0004	00001	0000C8	00063	
IHB0004A	00001	0000DC	00070	0062
IHB0006	00002	000104	00087	0080
IHB0014	00004	0001B4	00153	0151
IHB0019	00004	000204	00180	0178
IHB0026	00002	000314	00281	0274
IOPADS	00004	0003F8	00314	0210
MESS1	00035	0003AD	00309	0197
MESS2	00024	0003D0	00310	0230 0233 0236 0238
MTN	00002	000818	00392	0140
MOVEL	00006	000348	00303	0056
MOVEL1	00006	00034E	00304	0057
NOCLDSE	00001	000332	00293	0285
NODEQ	00004	00031A	00284	0271
NOSTAX1	00001	0002D0	00250	
NOWRI	00001	00021A	00191	
OK	00004	00019C	00146	0142 0144 0202
OPENER	00001	000294	00229	0109
OUTBUF	00034	00040C	00316	0043
PARM	00001	000810	00390	0052 0067

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## CROSS-REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
POINTER	00001	0003AC	00308	0050 0091 0110 0201 0241 0263 0270 0283 0284 0292 0298
PUTBLOCK	00004	0007A0	00333	0215
PUTL	00001	00023C	00203	0200 0243
QNAME	00008	000750	00318	0085 0279
RETURN	00001	0002CC	00245	0193 0244
RNAME	00008	000758	00319	0086 0280
SAVE	00004	00001C	00025	0021 0022 0251
START	00001	000064	00027	0023
STAXLIST	00004	00078C	00323	0040
TEXT	00004	000760	00320	0197 0199 0206 0219 0238 0240
UADBUF	00004	000430	00317	0123 0133 0149 0167
UADDCB	00004	0007AC	00340	0106 0108 0112 0121 0165 0290
UADDECB	00004	00081C	00395	0119 0129 0163 0173
UADREAD	00004	00081C	00394	
USED	00004	00080C	00389	0066
USER	00044	000354	00305	0064 0304

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NO STATEMENTS FLAGGED IN THIS ASSEMBLY  
 \*STATISTICS\* SOURCE RECORDS (SYSIN) = 200 SOURCE RECORDS (SYSLIB) = 5491  
 \*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, NOTEST, ALGN, OS, NOTERM, LINECNT = 60  
 283 PRINTED LINES

EXTERNAL SYMBOL DICTIONARY

SYMBOL TYPE ID ADDR LENGTH LD ID

DSSPACE SD 01 000000 000EF^

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000000				1	DSSPACE CSECT		00000010
				2	* EXCEPT IN THE CASE WHERE INFORMATIONS ARE NEEDED FOR A SINGLE DATA		00000020
				3	* SET ALL THE CATALOG ENTRIES ARE READ FOR THE SPECIFIED USER. FOR		00000030
				4	* EACH DATA SET NAME THE ALLOCATED AND USED SPACE ARE COMPUTED FROM		00000040
				5	* THE INFORMATIONS CONTAINED IN THE VTOC AND FINALLY ADDED.		00000050
				6	* DEPENDING UPON THE VALUE OF THE PARM ARGUMENT THE FOLLOWING INFOR-		00000060
				7	* MATIONS ARE PRINTED		00000070
				8	* X'04' ALLOCATED AND USED SPACE FOR EVERY DATA SET AND THE SUM		00000080
				9	* X'02' SUM OF THE ALLOCATED AND USED SPACE		00000090
				10	* X'0C' ALLOCATED AND USED SPACE FOR THE SPECIFIED DATA SET		00000100
				11	* X'01' NO INFORMATIONS. CALL FROM CTRSPACE ALLOCATED AND USED		00000110
				12	* SPACE ARE RETURNED IN THE ALLOC AND USED ARGUMENTS		00000120
				13	** 5 ARGUMENTS:		00000130
				14	** 1. DSNAME OR INDEX		00000140
				15	** 2. ALLOCATED TRACKS		00000150
				16	** 3. USED TRACKS		00000160
				17	** 4. PARM,CONTROL OUTPUT		00000170
				18	** 5.CPPL ADDRESS		00000180
				19	* FIVE BUFFERS ARE CHAINED FOR THE INDEX LEVELS.		00000190
				20	* EACH BUFFER IS 280 BYTES LONG. THE FIRST WORD OF THE BUFFER POINTS		00000200
				21	* TO THE NEXT BUFFER, THE SECOND WORD POINTS TO THE NEXT INDEX ENTRY		00000210
				22	* IN THE BLOCK TO BE WORKED OUT. REGISTER 5 POINT TO THE CURRENT		00000220
				23	* BUFFER, REGISTER 3 TO THE CURRENT INDEX ENTRY IN THIS BLOCK.		00000230
				24	* IF THERE ARE MORE LEVEL THE "RESERVE" BLOCK SHALL BE USED.		00000240
				25	** REG 11 BASIS REGISTER FUER CSECT		00000250
				26	** REG 2 BASIS REGISTER FUER CPPL		00000260
				27	**** HOUSE KEEPING		00000270
				28	PRINT NOGEN		00000280
				29	SAVE (14,12),,DSSPACE		00000290
				34	LR 11,15		00000300
000010	188F			35	USING DSSPACE,11		00000310
000000				36	ST 13,SAVEA+4		00000320
000012	50D0 BEA8		00EA8	37	LR 12,13		00000330
000016	18CD			38	LA 13,SAVEA		00000340
000018	41D0 BEA4		00EA4	39	ST 13,8(12)		00000350
00001C	50DC 0008		00008	40	ST 1,PASSLIST SAVE POINTER TO ARG.LISTE		00000360
000020	5010 B58C		0058C	41	L 2,12(1) GET PARM ADR.		00000370
000024	5821 000C		0000C	42	MVC PARM(1),0(2) MOVE PARM		00000380
000028	D200 B6CD	2000	006CD	43	L 2,0(1) GET DSNAME ADR.		00000390
00002E	5821 0000		00000	44	MVC DSNAME(44),0(2) MOVE DSNAME OR INDEX		00000400
000032	D22B BE70	2000	00E70	45	L 2,16(1) GET POINTER TO CPPL ADR.		00000410
000038	5821 0010		00010	46	L 2,0(2) GET CPPL ADR		00000420
00003C	5822 0000		00000	47	USING CPPL,2		00000430
000000				48	MVC AUPT(4),CPPLUPT		00000440
000040	D203 B7C8	2004	007C8	49	MVC AECT(4),CPPLECT		00000450
000046	D203 B7C4	200C	007C4	50	DROP 2		00000460
				51	TM PARM,X'01' PRINT ?		00000470
00004C	9101 B6CD		006CD	52	BO NOHEAD WHEN NOT NO OVERHEAD		00000480
000050	4710 B062		00062	53	MVC BLK(26),HEAD		00000490
000054	D219 B6D2	B5E7	006D2	54	LA 7,30		00000500
00005A	4170 001E		0001E	55	BAL 3,PRINT PUTLINE		00000510
00005E	4530 B4EC		004EC	56	EQU *		00000520
000062				57	LA 4,DSNAME		00000530
000066	4150 002C		0002C	58	LA 5,44		00000540
00006A	9540 4000		00000	59	SUCHBL CLI 0(4),X'40' FIND END OF INDEX		00000550
00006F	4780 B07A		0007A	60	BE 8L		00000560
000072	4144 0001		00001	61	LA 4,1(4)		00000570
000076	4650 B06A		0006A	62	BCT 5,SUCHBL		00000580
00007A	5040 B74C		0074C	63	BL ST 4,DSNP		00000590
00007E	5040 B778		00778	64	ST 4,DSNP1 STORE ADR. OF FIRST BLK.		00000600

LOC	OBJECT	CJDE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FOIMAY72	8/10/73
000082	5040	B77C		0077C	65	ST 4,DSNP3		00000610
					66	**** DSNP POINT TO THE FIRST BYTE AFTER DSNNAME OR AFTER THE FIRST		00000620
					67	*** INDEX		00000630
000086	41C0	B5AC		005AC	68	LA 12,RETURN GET RETURN ADR. FUER ERROR IN LOCATE		00000640
00008A	9108	B6CD	006CD		69	TM PARM,X'08' ONLY ONE DSNNAME ?		00000650
00008E	4780	B0B6		000B6	70	BZ SPACE IF NO BR.		00000660
					71	*****		00000670
000092	4150	B900		00900	72	LA 5,FIRST+8 GET ADR. OF BUFFER FUER LOCATE		00000680
000096	5050	B760		00760	73	ST 5,LIST1+12 STORE IN LOCATE LIST FORM		00000690
					74	LOCATE LIST1 GET DSNNAME ENTRY		00000700
0000A0	12FF				77	LTR 15,15 LOCATE SUCCESSFUL ?		00000710
0000A2	4770	B4E4		004E4	78	BNZ ER3 NO GO TO PRINT MESSAGE		00000720
0000A6	0205	BE9C	5006	00E9C	00006	MVC VOL(6),6(5) MOVE VOLUME FUER OBTAIN		00000730
0000AC	45C0	B336		00336	80	BAL 12,OBTAIN GO TO READ DSCB		00000740
0000B0	1BAA				81	SR 10,10		00000750
0000B2	47F0	B5AC		005AC	82	B RETURN		00000760
					83	*****		00000770
0000B6					84	SPACE EQU * SPACE, SPACE ALL OR CALL FROM CTRSPACE		00000780
					85	** CHAINING INITIATION		00000790
0000B6	4110	B8F8		008F8	86	LA 1,FIRST		00000800
0000BA	5010	B750		00750	87	ST 1,AFIRST		00000810
0000BE	5010	B748		00748	88	ST 1,CURRENT		00000820
0000C2	4130	0004		00004	89	LA 3,4		00000830
0000C6	4121	0118		00118	90	LA 2,LENGTH(1)		00000840
0000CA	5021	0000		00000	91	LOOP1 ST 2,0(1)		00000850
0000CE	1812				92	LR 1,2		00000860
0000D0	4122	0118		00118	93	LA 2,LENGTH(2)		00000870
0000D4	4630	B0CA		000CA	94	BCT 3,LOOP1		00000880
					95	** GET FIRST BLOCK OF INDEX		00000890
0000D8	4150	B8F8		008F8	96	LA 5,FIRST GET BUFFER ADR. FUER 1. LOCATE		00000900
0000DC	41A0	B754		00754	97	LA 10,LIST1 GET ADR. OF LIST FORM(DSNNAME)		00000910
0000E0	4165	0008		00008	98	LA 6,8(5) ADR OF BUFFER FOR LOCATE		00000920
0000E4	506A	000C		0000C	99	ST 6,12(10) STORE IN LIST FORM		00000930
					100	LOCATE (10) GET FIRST BLOCK		00000940
0000EC	4110	000C		0000C	103	LA 1,12		00000950
0000F0	191F				104	CR 1,15 LOCATE SUCCESSFULL FOR INDEX ?		00000960
0000F2	4770	B4E0		004E0	105	BNE ER4 NO RETURN		00000970
0000F6	4530	B1CE		001CE	106	BAL 3,GET1 YES PROCESS THE BLOCK		00000980
					107	*****		00000990
0000FA					108	SUCHO EQU * WHAT TYPE OF ENTRY ?		00010000
0000FA					109	SUCH1 EQU *		00010100
0000FA	5835	0004		00004	110	L 3,4(5) GET CURRENT POINTER		00010200
0000FE	D507	3000	B7AC	00000	007AC	CLC 0(8,3),LINK LINK ENTRY		00010300
000104	4780	B20C		0020C	112	BC 8,NEXT YES.GET NEXT BLOCK OR NEXT INDEX		00010400
000108	9500	3008		00008	113	CLI 11(3),INDEX INDEX ENTRY ?		00010500
00010C	4780	B120		00120	114	BE INDEX1		00010600
000110	9507	3008		00008	115	CLI 11(3),DSN DSN ENTRY ?		00010700
000114	4780	B120		00120	116	BE INDEX1		00010800
					117	*****SKIP TO ANOTHER ENTRY		00010900
000118	45E0	B2B6		002B6	118	BAL 14,SKIP		00011000
00011C	47F0	B0FA		000FA	119	B SUCH1		00011100
000120					120	INDEX1 EQU *		00011200
000120	1843				121	LR 4,3 GET DISPLACEMENT FROM BEGINNING OF BLOCK		00011300
000122	1845				122	SR 4,5		00011400
000124	4940	B7B4		007B4	123	CH 4,D28 FIRST ENTRY IN INDEX BLOCK		00011500
000128	4780	B130		00130	124	BE INDEX2 WHEN YES OK		00011600
00012C	45E0	B28A		0028A	125	BAL 14,RESET NO CLEAR OTHER INDEX IN DSNNAME		00011700
000130	9507	3008		00008	126	INDEX2 CLI 11(3),DSN		00011800
000134	4780	B302		00302	127	BE DSN1		00011900
000138	D202	B774	3008	00774	00008	128 MVC TTR(3),8(3) MOVE TTR OF NEXT LOWER LEVEL INDEX BLOCK		00012000

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LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FOIMAY72	8/10/73
00013E	45E0	B2CE		002CE	129	BAL 14,MOVE MOVE INDEX NAME IN DSNAME		00001210
					130	**** SET POINTER TO NEXT INDEX		00001220
000142	4177	0001		00001	131	LA 7,1(7) COMPUTE		00001230
000146	5A70	B778		00778	132	A 7,DSNP1 ADDRESS OF FIRST BLK.		00001240
00014A	5070	B778		00778	133	ST 7,DSNP1 IN DSNAME AND STORE		00001250
00014E	4133	000C		0000C	134	LA 3,INDEXL(3)		00001260
000152	5035	0004		00004	135	ST 3,4(5) SET CURRENT POINTER		00001270
					136	*** GET FREE BLOCK		00001280
000156					137	GETBLOCK EQU *		00001290
000156	4150	B8F8		008F8	138	LA 5,FIRST		00001300
00015A	4130	0005		00005	139	LA 3,5		00001310
00015E	D503	5004	B7A4	00004	140	LOOP2 CLC 4(4,5),NULL IS THE BLOCK FREE		00001320
000164	4780	B192		00192	141	BE FOUND YES BRANCH		00001330
000168	1845				142	LR 4,5 NO TRY NEXT ONE		00001340
00016A	5855	0000		00000	143	L 5,0(5)		00001350
00016E	4630	B15E		0015E	144	BCT 3,LOOP2		00001360
000172	9101	B79C		0079C	145	TM POINTER,X'01' NO FREE BLOCK IS RESERV BLOCK IN USE?		00001370
000176	4710	B186		00186	146	BO RESERV YES BR		00001380
00017A	5040	B744		00744	147	ST 4,SAVEB SAVE ADR OF LAST BLOCK USED		00001390
00017E	1854				148	LR 5,4		00001400
000180	D203	B788	B778	00788	149	MVC DSNP2(4),DSNP1 SAVE FIRST BLK ADR. IN DSNAME		00001410
000186	4150	B7E0		007E0	150	RESERV LA 5,RESERVE GET ADR OF RESERV BLOCK		00001420
00018A	9601	B79C		0079C	151	OI POINTER,X'01' SET RESERV BLOCK IN USE		00001430
00018E	47F0	B196		00196	152	B READ GET NEXT INDEX BLOCK		00001440
000192	9400	B79C		0079C	153	FOUND NI POINTER,X'00' RESET RESERV BLOCK FREE		00001450
000196	5050	B748		00748	154	READ ST 5,CURRENT SAVE ADR. OF FREE BLOCK		00001460
00019A	41A0	B764		00764	155	LA 10,LIST2 GET ADR OF LIST FORM FOR LOCATE		00001470
00019E	4530	B1A6		001A6	156	BAL 3,GET GET BLOCK FROM CATALOG		00001480
0001A2	47F0	B0FA		000FA	157	B SUCHO		00001490
					158	*****		00001500
0001A6					159	GET EQU *		00001510
0001A6	4165	0008		00008	160	LA 6,8(5) GET ADR OF BUFFER FOR LOCATE		00001520
0001AA	506A	000C		0000C	161	ST 6,12(10) STORE IN LISTFORM		00001530
					162	LOCATE (10)		00001540
0001B2	12FF				165	LTR 15,15 LOCATE SUCCESSFULL FUER DSNAME		00001550
0001B4	4780	B1CE		001CE	166	BC 8,GET1 YES CONTINUE		00001560
0001B8	4110	000C		0000C	167	LA 1,12 RETURN CODE FUER INDEX		00001570
0001BC	191F				168	CR 1,15 LOCATE SUCCESSFULL FUER INDEX		00001580
0001BE	4780	B1CE		001CE	169	BC 8,GET1 YES CONTINUE		00001590
0001C2	45C0	B4E4		004E4	170	BAL 12,ER3 NO PRINT MESSAGE		00001600
0001C6	41A0	0008		00008	171	LA 10,8		00001610
0001CA	47F0	B324		00324	172	B LEER GO TO GET NEXT INDEX		00001620
0001CE					173	GET1 EQU *		00001630
0001CE	D507	6002	B7A4	00002	174	CLC 2(8,6),NULL INDEX CONTROL ENTRY ?		00001640
0001D4	4780	B1EE		001EE	175	BE G1 YES BR		00001650
0001D8	D502	B774	B7A4	00774	176	CLC TTR(3),NULL NEXT BLOCK OF THE INDEX ?		00001660
0001DE	4780	B324		00324	177	BE LEER NEIN ERROR,SKIP		00001670
0001E2	4145	000A		0000A	178	LA 4,10(5) GET POINTER TO FIRST ENTRY		00001680
0001E6	4170	000E		0000E	179	LA 7,14 GET MINIMAL LENGTH = COUNT + LINK ENTRY		00001690
0001EA	47F0	B1FC		001FC	180	B G2		00001700
0001EE					181	G1 EQU *		00001710
0001EE	4145	001C		0001C	182	LA 4,28(5) GET POINTER TO FIRST ENTRY		00001720
0001F2	4170	0020		00020	183	LA 7,32 GET MINIMAL LENGTH = COUNT + CONTROL +		00001730
					184	** LINK ENTRY		00001740
0001F6	D205	B780	6103	00780	185	MVC CVOL(6),259(6) MOVE CVOL		00001750
0001FC					186	G2 EQU *		00001760
0001FC	5045	0004		00004	187	ST 4,4(5) SAVE POINTER TO FIRST ENTRY		00001770
000200	4865	0008		00008	188	LH 6,8(5) GET COUNT		00001780
000204	1967				189	CR 6,7 COUNT > MINIMAL LENGTH		00001790
000206	47D0	B324		00324	190	BNH LEER NEIN PRINT MESSAGE		00001800

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
00020A	07F3			191	BR 3		00001810
				192	*****		00001820
00020C				193	NEXT EQU *		00001830
00020C	D202 B774 3 008 00774 00008			194	MVC TTR(3),8(3) MOVE TTR OF CONTINUATION BLOCK		00001840
000212	1833			195	SR 3,3		00001850
000214	5035 0004		00004	196	ST 3,4(5) RESET POINTER TO NULL = FREE BUFFER		00001860
000218	D502 B774 B7A4 00774 007A4			197	CLC TTR(3),NULL ANY CONTINUATION BLOCK FOR THE INDEX ?		00001870
00021E	4780 B226		00226	198	BE LAST NO BR		00001880
000222	47F0 B156		00156	199	B GETBLOCK YES GET A FREE BUFFER		00001890
000226	9101 B79C 0079C			200	LAST TM POINTER,X'01' WAS THE RESERV BUFFER IN USE		00001900
00022A	4780 B254		00254	201	BZ NORES NO BR		00001910
00022E	5850 B744 00744			202	L 5,SAVEB YES RESTORE ADR OF LAST BUFFER IN USE		00001920
000232	5050 B748 00748			203	ST 5,CURRENT		00001930
000236	9200 B79C 0079C			204	MVI POINTER,X'00' RESET RESERV BUFFER FREE		00001940
00023A	5870 B788 00788			205	L 7,DSNP2 RESTORE ADR OF FIRST BLK IN DSNAME		00001950
00023E	4160 BE9C 00E9C			206	LA 6,DSNAME+44		00001960
000242	1B67 207			207	SR 6,7		00001970
000244	9240 7000 00000			208	LOOPS5 MVI 0(7),X'40' RESET THE FOLLOWING BYTES TO BLK		00001980
000248	4177 0001 00001			209	LA 7,1(7)		00001990
00024C	4660 B244 00244			210	BCT 6,LOOPS5		00002000
000250	47F0 B0FA 000FA			211	B SUCHO GET NEXT INDEX		00002010
000254	5950 B750 00750			212	NORES C 5,AFIRST IS THE CURRENT BLOCK THE FIRST ONE?		00002020
000258	4780 B54E 0054E			213	BE ENDE YES - NO MORE DATA SETS		00002030
00025C	5850 B750 00750			214	L 5,AFIRST NO - GET THE BUFFER ADR. OF		00002040
000260	4130 0005 00005			215	LA 3,5 THE UPPER LEVEL INDEX		00002050
000264	D503 5004 B7A4 00004 007A4			216	LOOPS4 CLC 4(4,5),NULL IS THE BUFFER FREE ?		00002060
00026A	4780 B27A 0027A			217	BE PRE YES		00002070
00026E	5050 B78C 0078C			218	ST 5,PREVIOUS		00002080
000272	5855 0000 00000			219	L 5,0(5) NO GET NEXT ONE		00002090
000276	4630 B264 00264			220	BCT 3,LOOPS4		00002100
00027A	5850 B78C 0078C			221	PRE L 5,PREVIOUS THE PREVIOUS BUFFER IS THE BUFFER OF		00002110
00027E	5050 B748 00748			222	ST 5,CURRENT THE UPPER LEVEL INDEX		00002120
000282	45E0 B28A 0028A			223	BAL 14,RESET		00002130
000286	47F0 B0FA 000FA			224	B SUCHO		00002140
				225	*****RESET POINTER FOR NEXT INDEX IN DSNAME,BLK UP TO		00002150
00028A				226	RESET EQU * THIS ADR.		00002160
00028A	4160 BE9C 00E9C			227	LA 6,DSNAME+44		00002170
00028E	4180 0027 00027			228	LA 8,39		00002180
000292	0660 229			229	BCTR 6,0		00002190
000294	9240 6000 00000			230	MVI 0(6),X'40'		00002200
000298	0660 231			231	B1 BCTR 6,0		00002210
00029A	9548 6000 00000			232	CLI 0(6),X'4B'		00002220
00029E	4780 B2AC 002AC			233	BE B2		00002230
0002A2	9240 6000 00000			234	MVI 0(6),X'40'		00002240
0002A6	4680 B298 00298			235	BCT 8,B1		00002250
0002AA	07FE 236			236	BR 14		00002260
0002AC	237			237	B2 EQU *		00002270
0002AC	9240 6000 00000			238	MVI 0(6),X'40'		00002280
0002B0	5060 B778 00778			239	ST 6,DSNP1 SAVE ADR. OF FIRST BLK		00002290
0002B4	07FE 240			240	BR 14		00002300
				241	*****		00002310
0002B6				242	SKIP EQU *		00002320
0002B6	1B11 243			243	SR 1,1 CLEAR		00002330
0002B8	5835 0004 00004			244	L 3,4(5)		00002340
0002BC	4313 000B 0000B			245	IC 1,11(3) GET NBER OF HW THAT FOLLOW THE ENTRY		00002350
0002C0	8910 0001 00001			246	SLL 1,1 GET NBER OF BYTES		00002360
0002C4	4131 300C 0000C			247	LA 3,12(1,3)		00002370
0002C8	5035 0004 00004			248	ST 3,4(5) SET POINTER TO NEXT ENTRY		00002380
0002CC	07FE 249			249	BR 14		00002390
				250	*****		00002400

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	F01MAY72	8/10/73
0002CE				251	MOVE EQU *	MOVE . AND INDEX NAME IN DSNAME	00002410
0002CE	5860 B778		00778	252	L 6,DSNP1	GET ADDR OF FIRST BLK	00002420
0002D2	9248 6000	00000		253	MVI 0(6),X'48'	MOVE '.'	00002430
0002D6	4166 0001		00001	254	LA 6,1(6)		00002440
0002DA	5060 B778		00778	255	ST 6,DSNP1	SAVE ADDR OF FIRST BLK	00002450
0002DE	1843			256	LR 4,3	GET POINTER TO INDEX	00002460
0002E0	1877			257	SR 7,7	SET LENGTH OF INDEX = 0	00002470
0002E2	4180 0008		00008	258	LA 8,8		00002480
0002E6	9540 4000	00000		259	M1 CLI 0(4),X'40'	CHARACTER = BLK	00002490
0002EA	4780 B2FA		002FA	260	BE M2	YES BRANCH	00002500
0002EE	4177 0001		00001	261	LA 7,1(7)	NO INCREASE LENGTH OF INDEX BY ONE	00002510
0002F2	4144 0001		00001	262	LA 4,1(4)	POINT TO NEXT CHARACTER	00002520
0002F6	4680 B2E6		002E6	263	BCT 8,M1		00002530
0002FA	0670			264	M2 BCTR 7,0	DECREASE LENGTH BY 1 FOR MOVE	00002540
0002FC	4470 B790		00790	265	EX 7,MOVE	MOVE INDEX INTO DSNAME	00002550
000300	07FE			266	BR 14		00002560
				267	*****		00002570
000302	45E0 B2CE		002CE	268	DSN1 BAL 14,MOVE	MOVE LAST QUALIFIER	00002580
000306	4167 6001		00001	269	LA 6,1(7,6)	POINT TO FIRST BYTE AFTER DSNAME	00002590
00030A	5060 B77C		0077C	270	ST 6,DSNP3	SAVE ADDR OF FIRST BYTE AFTER DSNAME	00002600
00030E	D205 BE9C	3012 00E9C	00012	271	MVC VOL(6),18(3)	MOVE VOLUME FOR OBTAIN	00002610
000314	4133 001A		0001A	272	LA 3,26(3)	SET CURRENT POINTER	00002620
000318	5035 0004		00004	273	ST 3,4(5)	TO NEXT ENTRY	00002630
00031C	45C0 B336		00336	274	BAL 12,OBTAIN	GET DSCB	00002640
000320	47F0 B0FA		000FA	275	B SUCHO		00002650
				276	*****		00002660
000324				277	LEER EQU *		00002670
000324	1833			278	SR 3,3		00002680
000326	5035 0004		00004	279	ST 3,4(5)	FREE CURRENT BUFFER	00002690
00032A	5860 B778		00778	280	L 6,DSNP1		00002700
00032E	9248 6000	00000		281	MVI 0(6),X'4B'	MOVE .	00002710
000332	47F0 B226		00226	282	B LAST	GET NEXT INDEX	00002720
				283	*****		00002730
000336				284	OBTAIN EQU *		00002740
000336	1899			285	SR 9,9		00002750
000338	5090 B730		00730	286	ST 9,ALLOC		00002760
00033C	5090 B734		00734	287	ST 9,USED		00002770
				288	OBTAIN DSCB1	GET DSCB FORMAT 1	00002780
000346	12FF			291	LTR 15,15	SUCCESSFUL?	00002790
000348	4770 B4A4		004A4	292	BNZ ER2	NO PRINT MESSAGE	00002800
00034C	9142 B636	00636		293	TM LOCAREA+38,X'42'	PS OR PD DATASET?	00002810
000350	4740 B358		00358	294	BM GETUSED	YES GET USED TRKS	00002820
000354	47F0 B364		00364	295	B GETALC		00002830
000358				296	GETUSED EQU *		00002840
000358	4830 B646		00646	297	LH 3,LOCAREA+54	GET REL.ADR OF LAST USED TRKS	00002850
00035C	4133 0001		00001	298	LA 3,1(3)		00002860
000360	5030 B734		00734	299	ST 3,USED		00002870
000364				300	GETALC EQU *		00002880
000364	41A0 B64D		0064D	301	LA 10,LOCAREA+61	GET ADR. OF FIRST EXT.DESCRPTION	00002890
000368	4160 0003		00003	302	LA 6,3	SET COUNT	00002900
00036C	45E0 B468		00468	303	BAL 14,FORM	GET INFORMATION OF FIRST THREE EXTENDS	00002910
000370	D504 B66B	B7A4 0066B	007A4	304	CLC LOCAREA+91(5),NULL	MORE EXTENDS ?	00002920
000376	4780 B3C4		003C4	305	BE OBEND	NO BR	00002930
00037A	D204 B6C8	B66B 006C8	0066B	306	MVC CCHHR(5),LOCAREA+91	MOVE ADR OF NEXT DSCB	00002940
				307	OBT3 OBTAIN DSCB3	GET NEXT DSCB	00002950
000386	12FF			310	LTR 15,15	SUCCESSFUL?	00002960
000388	4770 B4A4		004A4	311	BNZ ER2	NO PRINT MESSAGE	00002970
00038C	9503 B610	00610		312	CLI LOCAREA,X'03'	IS IT FORMAT 3 ?	00002980
000390	4770 B398		00398	313	BNE ISAM	NO - ISAM DATEI	00002990
000394	47F0 B3AC		003AC	314	B OBT4		00003000

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000398				315	ISAM EQU *		00003010
000398	D504 B697 B7A4	00697	007A4	316	CLC LOCAREA+135(5),NULL MORE EXTEND		00003020
00039E	4780 B3C4		003C4	317	BE OBEND NO BR		00003030
0003A2	D204 B6C8 B697	006C8	00697	318	MVC CCHHR(5),LOCAREA+135 GET ADR OF FORMAT 3		00003040
0003A8	47F0 B380		00380	319	B OBT3 GO TO GET NEXT DSCB		00003050
0003AC				320	OBT4 EQU * INVESTIGATE FORMAT 3 DSCB		00003060
0003AC	41A0 B614		00614	321	LA 10,LOCAREA+4 GET ADR OF FIRST EXT DESCRIPTION		00003070
0003B0	4160 0004		00004	322	LA 6,4 GET COUNT		00003080
0003B4	45E0 B468		00468	323	BAL 14,FORM		00003090
0003B8	4160 0009		00009	324	LA 6,9 GET COUNT		00003100
0003BC	41AA 0001		00001	325	LA 10,1(10) GET ADR OF FIFTH EXT DESCRIPTION		00003110
0003C0	45E0 B468		00468	326	BAL 14,FORM		00003120
				327	*****		00003130
0003C4				328	OBEND EQU *		00003140
0003C4	5890 B5C0		005C0	329	L 9,TOTAL GET TOTAL ALLOC.TRKS		00003150
0003C8	5A90 B730		00730	330	A 9,ALLOC ADD ALLOC.TRKS FOR THIS DATASET		00003160
0003CC	5090 B5C0		005C0	331	ST 9,TOTAL SAVE		00003170
0003D0	5890 B5C4		005C4	332	L 9,TOTUS GET TOTAL USED TRKS		00003180
0003D4	D503 B734 B7A4	00734	00744	333	CLC USED(4),NULL PS OR PO DATA SET? I.E. USED ALREADY		00003190
				334	*	COMPUTED	00003200
0003DA	4770 B3E4		003E4	335	BNE POPS YES BR		00003210
0003DE	D203 B734 B730	00734	00730	336	MVC USED(4),ALLOC NO USED=ALLOC FOR ISAM OR DA		00003220
0003E4				337	POPS EQU *		00003230
0003E4	5A90 B734		00734	338	A 9,USED ADD USED TRKS FOR THIS DATA SET		00003240
0003E8	5090 B5C4		005C4	339	ST 9,TOTUS SAVE		00003250
0003EC	9104 B6CD	006CD		340	TM PARM,X'04' IS IT PRINT ? FOR EVERY DATASET		00003260
0003F0	4780 B426		00426	341	BZ NOPRI NO BR		00003270
0003F4	4540 B428		00428	342	BAL 4,DSPART		00003280
0003F8	5830 B730		00730	343	L 3,ALLOC		00003290
0003FC	4E30 B720		00720	344	CVD 3,PACK CONVERT TO DECIMAL		00003300
000400	4530 B456		00456	345	BAL 3,EDIT UNPACK - ED		00003310
000404	D203 B6D8 B72C	006D8	0072C	346	MVC AL(4),UNPK+4 MOVE IN OUTPUT BUFFER		00003320
00040A	5830 B734		00734	347	L 3,USED		00003330
00040E	4E30 B720		00720	348	CVD 3,PACK		00003340
000412	4530 B456		00456	349	BAL 3,EDIT		00003350
000416	D203 B6E4 B72C	006E4	0072C	350	MVC US(4),UNPK+4		00003360
00041C	D205 B6EA BE9C	006EA	00E9C	351	MVC US+6(6),VOL		00003370
000422	4530 B4EC		004EC	352	BAL 3,PRINT PRINT		00003380
000426	07FC			353	NOPRI BR 12		00003390
				354	*****		00003400
000428				355	DSPART EQU *		00003410
000428	9108 B6CD	006CD		356	TM PARM,X'08' IS IT PRINT FOR 1 DSNAME?		00003420
00042C	4780 B438		00438	357	BZ TOT NO BR		00003430
000430	4130 BE70		00E70	358	LA 3,DSNAME MOVE THE WHOLE DSNAME		00003440
000434	47F0 B440		00440	359	B PR2		00003450
000438				360	TOT EQU *		00003460
000438	5830 B74C		0074C	361	L 3,DSNP DONT 'T MOVE FIRST INDEX		00003470
00043C	4133 0001		00001	362	LA 3,1(3) POINT TO SECOND INDEX		00003480
000440				363	PR2 EQU *		00003490
000440	5870 B77C		0077C	364	L 7,DSNP3 POINT TO FIRST BYTE AFTER DSNAME		00003500
000444	1873			365	SR 7,3 LENGTH OF DSNAME TO BE PRINTED		00003510
000446	0670			366	BCTR 7,0 DECREASE BY ONE FOR MOVE		00003520
000448	4160 B6F2		006F2	367	LA 6,T1		00003530
00044C	4470 B790		00790	368	EX 7,MOVEL		00003540
000450	4177 0025		00025	369	LA 7,T1-BLK+4+1(7)		00003550
				370	**** LENGTH OF LINE=(T1-BLK)+L(DSNAME)+4 BYTES CONTROL		00003560
000454	07F4			371	BR 4		00003570
				372	*****		00003580
000456				373	EDIT EQU *		00003590
000456	9220 B729	00729		374	MVI UNPK+1,X'20' MASK 0		00003600



LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
00045A	D205 B72A	B729	0072A	00729	375 MVC UNPK+2(6),UNPK+1		00003610
000460	DE07 B728	B724	00728	00724	376 ED UNPK(8),PACK+4		00003620
000466	07F3				377 BR 3		00003630
					378 *****		00003640
					379 * ALLOC SPACE = (HICYL*TRKNO + HITRK) (LOCYL*TRKNO + LOTRK) + 1		00003650
000468					380 FORM EQU *		00003660
000468	D209 B738	A000	00738	00000	381 MVC EXT(10),O(10)		00003670
00046E	9500 B738		00738		382 CLI EXT,X'00' ANY EXTEND		00003680
000472	078E				383 BCR 8,14 NO BR		00003690
000474	4830 B73E			0073E	384 LH 3,HICYL		00003700
000478	4C30 B742			00742	385 MH 3,TRKNO		00003710
00047C	4A30 B740			00740	386 AH 3,HITRK		00003720
000480	4840 B73A			0073A	387 LH 4,LOCYL		00003730
000484	4C40 B742			00742	388 MH 4,TRKNO		00003740
000488	4A40 B73C			0073C	389 AH 4,LOTRK		00003750
00048C	1B34				390 SR 3,4		00003760
00048E	4133 0001			00001	391 LA 3,1(3)		00003770
000492	5A30 B730			00730	392 A 3,ALLOC		00003780
000496	5030 B730			00730	393 ST 3,ALLOC		00003790
00049A	41AA 000A			0000A	394 LA 10,10(10)		00003800
00049E	4660 B468			00468	395 BCT 6,FORM		00003810
0004A2	07FE				396 BR 14		00003820
					397 *****		00003830
0004A4					398 ER2 EQU * ERROR FOR OBTAIN UNSUCCESSFUL		00003840
0004A4	4170 B5CD			005CD	399 LA 7,MESS2		00003850
0004A8					400 ER20 EQU *		00003860
0004A8	9101 B6CD		006CD		401 TM PARM,X'01' CALL FROM CTRSPACE		00003870
0004AC	4710 B4D0			004D0	402 BO ER22 YES NO PRINT		00003880
0004B0	183F				403 LR 3,15 GET CODE		00003890
0004B2	4E30 B720			00720	404 CVD 3,PACK		00003900
0004B6	4530 B456			00456	405 BAL 3,EDIT		00003910
0004BA	D203 B6E5	B72C	006E5	0072C	406 MVC AL+13(4),UNPK+4 MOVE CODE INTO TEXT		00003920
0004C0	D20C B6D8	7000	006D8	00000	407 MVC AL(13),O(7) MOVE MESSAGE		00003930
0004C6	4540 B428			00428	408 BAL 4,DSPART MOVE DSNAME INTO MESSAGE		00003940
0004CA	4530 B4EC			004EC	409 BAL 3,PRINT		00003950
0004CE	07FC				410 BR 12		00003960
0004D0	4130 0008			00008	411 ER22 LA 3,8		00003970
0004D4	193F				412 CR 3,15		00003980
0004D6	078C				413 BCR 8,12		00003990
0004D8	41A0 0008			00008	414 LA 10,8		00004000
0004DC	47F0 B5AC			005AC	415 B RETURN		00004010
0004E0	9608 B6CD		006CD		416 ER4 CI PARM,X'08'		00004020
0004E4	4170 B5DA			005DA	417 ER3 LA 7,MESS1 ERROR FOR LOCATE INDEX OR DSN UNSUCCESSFUL		00004030
0004E8	47F0 B4A8			004A8	418 B ER20		00004040
					419 *****		00004050
0004EC					420 PRINT EQU *		00004060
0004EC	4070 B6CE			006CE	421 STH 7,TEXT		00004070
0004F0	D201 B6D0	B7A4	006D0	007A4	422 MVC TEXT+2(2),NULL		00004080
0004F6	D203 B7CC	B7A4	007CC	007A4	423 MVC ECBADS(4),NULL		00004090
0004FC	5870 B7C8			007C8	424 L 7,AUPT		00004100
000500	5880 B7C4			007C4	425 L 8,AECT		00004110
					426 PUTLINE PARM=PUTL,UPT=(7),ECT=(8),ECB=ECBADS, OUTPUT=(TEXT,TERM,SINGLE,DATA),MF=(E,IOPLADS)		*00004120
000546	D24A B6D3	B6D2	006D3	006D2	444 MVC BLK+1(75),BLK		00004130
00054C	07F3				445 BR 3		00004140
					446 *****		00004150
00054E					447 ENDE EQU *		00004160
00054E	9101 B6CD		006CD		448 TM PARM,X'01' CALL FROM CTRSPACE?		00004170
000552	4780 B574			00574	449 BZ PR3 NO PRINT		00004180
000556	5810 B58C			0058C	450 L 1,PASSLIST YES		00004190

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
00055A	9823 1004		00004	451	LM 2,3,4(1) GET ADDR OF 2. 3. ARG.		00004210
00055E	5810 B5C0		005C0	452	L 1,TOTAL		00004220
000562	5012 0000		00000	453	ST 1,0(2) MOVE ALLOC, SPACE		00004230
000566	5810 B5C4		005C4	454	L 1,TOTUS		00004240
00056A	5013 0000		00000	455	ST 1,0(3) MOVE USED SPACE		00004250
00056E	1BAA			456	SR 10,10		00004260
000570	47F0 B5AC		005AC	457	B RETURN		00004270
000574				458	PR3 EQU *		00004280
000574	D204 B6D2 B5C8 006D2		005C8	459	MVC BLK(5),TTOTAL		00004290
00057A	5830 B5C0		005C0	460	L 3,TOTAL		00004300
00057E	4E30 B720		00720	461	CVD 3,PACK		00004310
000582	4530 B456		00456	462	BAL 3,EDIT		00004320
000586	D203 B6D8 B72C 006D8		0072C	463	MVC AL(4),UNPK+4		00004330
00058C	5830 B5C4		005C4	464	L 3,TOTUS		00004340
000590	4E30 B720		00720	465	CVD 3,PACK		00004350
000594	4530 B456		00456	466	BAL 3,EDIT		00004360
000598	D203 B6E4 B72C 006E4		0072C	467	MVC US(4),UNPK+4		00004370
00059E	4170 0029		00029	468	LA 7,T1-BLK+5+4		00004380
				469	**** LENGTH OF LINE=(T1-BLK)+L(TOTAL)+4 BYTES CONTROL		00004390
0005A2	4530 B4EC		004EC	470	BAL 3,PRINT		00004400
0005A6	1BAA			471	SR 10,10		00004410
0005A8	47F0 B5AC		005AC	472	B RETURN		00004420
				473	*****		00004430
0005AC				474	RETURN EQU *		00004440
0005AC	58DD 0004		00004	475	L 13,4(13)		00004450
0005B0	18FA			476	LR 15,10		00004460
				477	RETURN (14,12),RC=(15)		00004470
				481	*****		00004480
0005BC	00000000			482	PASSLIST DC F'0'		00004490
0005C0	00000000			483	TOTAL DC F'0'		00004500
0005C4	00000000			484	TOTUS DC F'0'		00004510
0005C8	E3D6E3C1D3			485	TTOTAL DC C'TOTAL'		00004520
0005CD	D6C2E3C1C9D540C5			486	MESS2 DC CL13'OBTAIN ERROR'		00004530
0005DA	D3D6C3C1E3C540C5			487	MESS1 DC CL13'LOCATE ERROR'		00004540
0005E7	404040			488	HEAD DC CL3' '		00004550
0005EA	C1D3D3D6C34BE3D9			489	DC CL12'ALLOC.TRKS '		00004560
0005F6	E4E2C5C440E3D9D2			490	DC CL11'USED TRKS '		00004570
000601	4040404040404040			491	DC CL12' '		00004580
000610				492	LOCAREA DS OD		00004590
000610	4040404040404040			493	DC CL150' '		00004600
				494	DSCB1 CAMLST SEARCH,DSNAME,VOL,LOCAREA		00004610
				503	DSCB3 CAMLST SEEK,CCHHR,VOL,LOCAREA		00004620
0006C8	C140404040			512	CCHHR DC CL5'A'		00004630
0006CD	00			513	PARM DC X'00'		00004640
0006CE	0000			514	TEXT DC H'0'		00004650
0006D0	0000			515	DC H'0'		00004660
0006D2	40404040404040			516	BLK DC CL6' '		00004670
0006D8	40404040			517	AL DC CL4' '		00004680
0006DC	4040404040404040			518	DC CL8' '		00004690
0006E4	40404040			519	US DC CL4' '		00004700
0006E8	4040404040404040			520	DC CL10' '		00004710
0006F2	4040404040404040			521	T1 DC CL44' '		00004720
000720				522	PACK DS D		00004730
000728	4040404040404040			523	UNPK DC CL8' '		00004740
000730	00000000			524	ALLOC DC F'0'		00004750
000734	00000000			525	USED DC F'0'		00004760
000738	0000			526	EXT DC X'0000'		00004770
00073A	0000			527	LOCYL DC X'0000'		00004780
00073C	0000			528	LOTRK DC X'0000'		00004790
00073E	0000			529	HICYL DC X'0000'		00004800

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000740	0000			530	HITRK DC X'0000'		00004810
000742	0014			531	TRKNO DC H'20'		00004820
000744	00000000			532	SAVEB DC F'0'		00004830
000748	00000000			533	CURRENT DC F'0'		00004840
00074C	00000000			534	DSNP DC F'0'		00004850
000750	00000000			535	AFIRST DC F'0'		00004860
				536	LIST1 CAMLST NAME,DSNAME,,(6)		00004870
				545	LIST2 CAMLST BLOCK,TTR,CVOL,(6)		00004880
000774	000000			554	TTR DC X'000000'		00004890
000777	00						
000778	00000000			555	DSNP1 DC F'0'		00004900
00077C	00000000			556	DSNP3 DC F'0'		00004910
000780	404040404040			557	CVOL DC CL6' '		00004920
000786	0000						
000788	00000000			558	DSNP2 DC F'0'		00004930
00078C	00000000			559	PREVIOUS DC F'0'		00004940
000790	D200 6000 3000 00000 00000			560	MOVEL MVC 0(0,6),0(3)		00004950
000796	0000						
000798	00000000			561	MOVELEN DC F'0'		00004960
00079C	00			562	POINTER DC X'00'		00004977
000003				563	GDG EQU X'03'		00004980
000001				564	VCB EQU X'01'		00004990
000118				565	LENGTH EQU 280		00005000
000000				566	INDEX EQU X'00'		00005010
000007				567	DSN EQU X'07'		00005020
00079D	000000						
0007A0	00000021			568	MIN DC F'33'		00005030
00000C				569	INDEXL EQU 12		00005040
0007A4	00000000			570	NULL DC X'00000000'		00005050
0007A8	00000001			571	DOUBLE DC F'1'		00005060
0007AC	FFFFFFFFFFFFFFFF			572	LINK DC X'FFFFFFFFFFFFFFFF'		00005070
0007B4	001C			573	D28 DC H'28'		00005080
				574	PUTL PUTLINE MF=L		00005090
0007C4	00000000			579	AECT DC F'0'		00005100
0007C8	00000000			580	AUPT DC F'0'		00005110
0007CC	00000000			581	ECBADS DC F'0'		00005120
0007D0	0000000000000000			582	IOPLADS DC 4F'0'		00005130
0007E0				583	DS 0D		00005140
0007E0	00000000			584	RESERVE DC F'0'		00005150
0007E4	00000000			585	DC F'0'		00005160
0007E8	4040404040404040			586	DC CL200' '		00005170
0008B0	4040404040404040			587	DC CL72' '		00005180
				588	***** GANZE AREA 5*280 BYTES + 280 BYTES RESERVE		00005190
0008F8	00000000			589	FIRST DC F'0'		00005200
0008FC	00000000			590	DC F'0'		00005210
000900	4040404040404040			591	DC CL200' '		00005220
0009C8	4040404040404040			592	DC CL72' '		00005230
000A10	00000000			593	DC F'0'		00005240
000A14	00000000			594	DC F'0'		00005250
000A18	4040404040404040			595	DC CL200' '		00005260
000AE0	4040404040404040			596	DC CL72' '		00005270
000B28	00000000			597	DC F'0'		00005280
000B2C	00000000			598	DC F'0'		00005290
000B30	4040404040404040			599	DC CL200' '		00005300
000BF8	4040404040404040			600	DC CL72' '		00005310
000C40	00000000			601	DC F'0'		00005320
000C44	00000000			602	DC F'0'		00005330
000C48	4040404040404040			603	DC CL200' '		00005340
000D10	4040404040404040			604	DC CL72' '		00005350
000D58	00000000			605	DC F'0'		00005360

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000D5C	00000000			606	DC F'0'		00005370
000D60	40404040404040			607	DC CL200' '		00005380
000E28	40404040404040			608	DC CL72' '		00005390
000E70	E3E2D6F7F4F94040			609	DSNAME DC CL44'TS0749'		00005400
000E9C	404040404040			610	VOL DC CL6' '		00005410
000EA2	0000						
000EA4	0000000000000000			611	SAVEA DC 18F'0'		00005420
000EEC	00000000			612	ENDEN DC F'0'		00005430
				613	IKJCPPL		00005440
				624	END		00005450

## RELOCATION DICTIONARY

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POS.ID	REL.ID	FLAGS	ADDRESS
01	01	0C	000534
01	01	0C	0006AC
01	01	0C	000680
01	01	0C	0006B4
01	01	0C	0006BC
01	01	0C	0006C0
01	01	0C	0006C4
01	01	0C	000758
01	01	0C	000768
01	01	0C	00076C

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
AECT	00004	0007C4	00579	0049 0425
AFIRST	00004	000750	00535	0087 0212 0214
AL	00004	0006D8	00517	0346 0406 0407 0463
ALLOC	00004	000730	00524	0286 0330 0336 0343 0392 0393
AUPT	00004	0007C8	00580	0048 0424
BL	00004	00007A	00063	0060
BLK	00006	0006D2	00516	0053 0369 0444 0444 0459 0468
B1	00002	000298	00231	0235
B2	00001	0002AC	00237	0233
CCHHR	00005	0006C8	00512	0306 0318 0509
CPPL	00001	000000	00618	0047
CPPLCBUF	00004	000000	00619	
CPPL ECT	00004	00000C	00622	0049
CPPLPSCB	00004	000008	00621	
CPPLUPT	00004	000004	00620	0048
CURRENT	00004	000748	00533	0088 0154 0203 0222
CVOL	00006	000780	00557	0185 0552
DOUBLE	00004	0007A8	00571	
DSCR1	00004	0006A8	00495	0289
DSCR3	00004	000688	00504	0308
DSN	00001	000007	00567	0115 0126
DSNAME	00044	000E70	00609	0044 0057 0206 0227 0358 0500 0542
DSNP	00004	00074C	00534	0063 0361
DSNP1	00004	000778	00555	0064 0132 0133 0149 0239 0252 0255 0280
DSNP2	00004	000788	00558	0149 0205
DSNP3	00004	00077C	00556	0065 0270 0364
DSN1	00004	000302	00268	0127
DSPART	00001	000428	00355	0342 0408
DSSPACE	00001	000000	00001	0035
D28	00002	0007B4	00573	0123
ECBADS	00004	0007CC	00581	0423 0430
EDIT	00001	000456	00373	0345 0349 0405 0462 0466
ENDE	00001	00054E	00447	0213
ENDEN	00004	000EEC	00612	
ER2	00001	0004A4	00398	0292 0311
ER20	00001	0004A8	00400	0418
ER22	00004	0004D0	00411	0402
ER3	00004	0004E4	00417	0078 0170
ER4	00004	0004E0	00416	0105
EXT	00002	000738	00526	0381 0382
FIRST	00004	0008F8	00589	0072 0086 0096 0138
FORM	00001	000468	00380	0303 0323 0326 0395
FOUND	00004	000192	00153	0141
GDS	00001	000003	00563	
GET	00001	0001A6	00159	0156
GETALC	00001	000364	00300	0295
GETBLOCK	00001	000156	00137	0199
GETUSED	00001	000358	00296	0294
GET1	00001	0001CE	00173	0106 0166 0169
G1	00001	0001EE	00181	0175
G2	00001	0001FC	00186	0180
HEAD	00003	0005E7	00488	0053
HICYL	00002	00073E	00529	0384
HITRK	00002	000740	00530	0386
INDEX	00001	000000	00566	0113
INDEXL	00001	00000C	00569	0134
INDEX1	00001	000120	00120	0114 0116
INDEX2	00004	000130	00126	0124
IDPLADS	00004	0007D0	00582	0427
ISAM	00001	000398	00315	0313

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
LAST	00004	000226	00200	0198 0282
LEER	00001	000324	00277	0172 0177 0190
LENGTH	00001	000118	00565	0090 0093
LINK	00008	0007AC	00572	0111
LIST1	00004	000754	00537	0073 0075 0097
LIST2	00004	000764	00546	0155
LOCAREA	00008	000610	00492	0293 0297 0301 0304 0306 0312 0316 0318 0321 0502 0511
LOCYL	00002	00073A	00527	0387
LOOP1	00004	0000CA	00091	0094
LOOP2	00006	00015E	00140	0144
LOOP4	00006	000264	00216	0220
LOOP5	00004	000244	00208	0210
LOTRK	00002	00073C	00528	0389
MESS1	00013	00050A	00487	0417
MESS2	00013	0005CD	00486	0399
MIN	00004	0007A0	00568	
MOVE	00001	0002CE	00251	0129 0268
MOVEL	00006	000790	00560	0265 0368
MOVELEN	00004	000798	00561	
M1	00004	0002E6	00259	0263
M2	00002	0002FA	00264	0260
NEXT	00001	00020C	00193	0112
NOHEAD	00001	000062	00056	0052
NOPR1	00002	000426	00353	0341
NORES	00004	000254	00212	0201
NULL	00004	0007A4	00570	0140 0174 0176 0197 0216 0304 0316 0333 0422 0423
OBEND	00001	0003C4	00328	0305 0317
OBTAIN	00001	000336	00284	0080 0274
OBT3	00004	000380	00308	0319
OBT4	00001	0003AC	00320	0314
PACK	00008	000720	00522	0344 0348 0376 0404 0461 0465
PARM	00001	0006CD	00513	0042 0051 0069 0340 0356 0401 0416 0448
PASSLIST	00004	00058C	00482	0040 0450
POINTER	00001	00079C	00562	0145 0151 0153 0200 0204
POPS	00001	0003E4	00337	0335
PRE	00004	00027A	00221	0217
PREVIOUS	00004	00078C	00559	0218 0221
PRINT	00001	0004EC	00420	0055 0352 0409 0470
PR2	00001	000440	00363	0359
PR3	00001	000574	00458	0449
PUTL	00004	000788	00576	0432
READ	00004	000196	00154	0152
RESERV	00004	000186	00150	0146
RESERVE	00004	0007E0	00584	0150
RESET	00001	00028A	00226	0125 0223
RETURN	00001	0005AC	00474	0068 0082 0415 0457 0472
SAVEA	00004	000EA4	00611	0036 0038
SAVEB	00004	000744	00532	0147 0202
SKIP	00001	0002B6	00242	0118
SPACE	00001	000086	00084	0070
SUCHBL	00004	00006A	00059	0062
SUCHD	00001	0000FA	00108	0157 0211 0224 0275
SUCH1	00001	0000FA	00109	0119
TEXT	00002	0006CE	00514	0421 0422 0436
TOT	00001	000438	00360	0357
TOTAL	00004	0005C0	00483	0329 0331 0452 0460
TOTUS	00004	0005C4	00484	0332 0339 0454 0464
TRKNO	00002	000742	00531	0385 0388
TOTAL	00005	0005C8	00485	0459
TTR	00003	000774	00554	0128 0176 0194 0197 0551

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CROSS-REFERENCE

SYMBOL	LEN	VALUE	DEFN	REFERENCES
T1	00044	0006F2	00521	0367 0369 0468
UNPK	00008	000728	00523	0346 0350 0374 0375 0376 0406 0463 0467
US	00004	0006E4	00519	0350 0351 0467
USED	00004	000734	00525	0287 0299 0333 0336 0338 0347
VCB	00001	000001	00564	
VOL	00006	000E9C	00610	0079 0271 0351 0501 0510

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NO STATEMENTS FLAGGED IN THIS ASSEMBLY  
 \*STATISTICS\* SOURCE RECORDS (SYSIN) = 545 SOURCE RECORDS (SYSLIB) = 1570  
 \*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, NOTEST, ALGN, OS, NOTERM, LINECNT = 60  
 722 PRINTED LINES



EXTERNAL SYMBOL DICTIONARY

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SYMBOL	TYPE	ID	ADDR	LENGTH	LD	ID
ADDSPACE	SD	01	000000	000988		
PARMTAB	SD	02	0009C0	000045		
PARMTAB	ER	03				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	F01MAY72	8/10/73
000000				1	ADDSPACE CSECT		00000010
				2	* THIS COMMAND IS RESERVED FOR THE USERS WHO HAVE THE ACCOUNT		00000020
				3	* ATTRIBUTE. IT ADDS OF CHANGES IN THE UADS THE FACTOR WHICH DEFINES		00000030
				4	* THE SPACE THE USER IS ALLOWED TO ALLOCATE		00000040
				5	PRINT NOGEN		00000050
				6	SAVE (14,12),,ADDSPACE		00000060
				11	** R13 BASIS REG AND SAVE AREA ADDR.		00000070
				12	** R2 POINT TO CPPL		00000080
000012	183D			13	LR 3,13		00000090
000014	41DF 001C		0001C	14	LA 13,SAVE-ADDSPACE(15)		00000100
00001C				15	USING SAVE,13		00000110
000018	47F0 D048		00064	16	B START		00000120
00001C	0000000000000000			17	SAVE DC 18F'0'		00000130
000064				18	START EQU *		00000140
000064	50D3 0008		00008	19	ST 13,8(3)		00000150
000068	50D3 0004		00004	20	ST 3,4(13)		00000160
00006C	1821			21	LR 2,1	SAVE POINTER TO CPPL	00000170
000000				22	USING CPPL,2		00000180
00006E	41C0 D3F0		0040C	23	LA 12,AEXIT		00000190
00040C				24	USING AEXIT,12		00000200
000072	9400 C41F		0082B	25	NI POINTER,X'00'		00000210
000076	9240 C3FA		00806	26	MVI TEXT+4,X'40'		00000220
00007A	D210 C3FB C3FA		00807	27	MVC TEXT+5(17),TEXT+4		00000230
000080	5860 2008		00008	28	L 6,CPPLPSCB GET PSCB ADDR		00000240
000084	9140 6010		00010	29	TM 16(6),X'40' IS USER AUTHORIZED FOR ACCOUNT		00000250
000088	4780 D376		00392	30	BZ NOTAL NO - PRINT MESSAGE - RETURN		00000260
				31	**** COMMAND SYNTAX ****X		00000270
				32	**** ADDSPACE USERID A(FACTOR)		00000280
				33	**** ADDSPACE USERID C(FACTOR)		00000290
				34	**** ADDSPACE USERID		00000300
				35	***** DEFAULT A(2)		00000310
				36	**** CHECK SYNTAX		00000320
				37	PARMTAB IKJPARM		00000330
				46	USER IKJPOSIT USERID,PROMPT='USERID'		00000340
				59	KEW1 IKJKEYWD DEFAULT='A'		00000350
				72	IKJNAME 'A',SUBFLD=VALUE		00000360
				82	IKJNAME 'C',SUBFLD=VALUE		00000370
				92	VALUE IKJSUBF		00000380
				97	VALUE1 IKJIDENT 'NUMBER',FIRST=NUMERIC,OTHER=NUMERIC,DEFAULT='2'		00000390
				117	IKJENDP		00000400
				127	GETMAIN R,LV=32 GET CORE FOR PPL		00000410
000096	5010 C594		009A0	131	ST 1,APPL SAVE ADR OF CORE		00000420
00009A	9640 C41F		0082B	132	OI POINTER,X'40' SET BIT GETCORE		00000430
00009E	1831			133	LR 3,1		00000440
000000				134	USING PPL,3 ESTABLISH ADDRESSABILITY		00000450
				135	***** MOVE PTR FOR PARSE		00000460
0000A0	D203 3000 2004 00000 00004			136	MVC PPLUPT(4),CPPLUPT		00000470
0000A6	D203 3004 200C 00004 0000C			137	MVC PPLECT(4),CPPLECT		00000480
0000AC	D203 3008 C58C 00008 00998			138	MVC PPLECB(4),AEVENT		00000490
0000B2	D203 3014 2000 00014 00000			139	MVC PPLCBUF(4),CPPLCBUF		00000500
0000B8	5880 C59C		009A8	140	L 11,VPARM SET PTR TO PCL FOR PARSE		00000510
0000BC	50B0 300C		0000C	141	ST 11,PPLPCL		00000520
0000C0	41B0 C5A0		009AC	142	LA 11,POANS SET PTR TO ANSWER FOR PARSE		00000530
0000C4	50B0 3010		00010	143	ST 11,PPLANS		00000540
				144	LINK EP=IKJPARS		00000550
0000DE	5850 C5A0		009AC	151	L 5,POANS GET PTR TO PDL		00000560
0000E2	5950 C5A4		009B0	152	C 5,FF PARS SUCCESSFULL?		00000570
0000E6	4780 D328		00344	153	BE PARSER NO PRINT MESSAGE - RETURN		00000580
000000				154	USING IKJPARMD,5		00000590
0000EA	5860 5008		00008	155	L 6,USER GET PTR TO USERID		00000600

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
0000EE	4890 500C		0000C	156	LH 9,USER+4 GET LENGTH OF USERID		00000610
0000F2	5090 C598		009A4	157	ST 9,USERLEN		00000620
0000F6	0690			158	BCTR 9,0 DECREASE BY 1 FOR EX		00000630
0000F8	4490 C5A8		00984	159	EX 9,MOVE MOVE USERID IN DYNAM FOR ENQ		00000640
0000FC	4190 D0EC		00108	160	LA 9,BRLIST		00000650
000100	4860 5018		00018	161	LH 6,KEW1 GET KEYWORD NUMBER		00000660
000104	8960 0002		00002	162	SLL 6,2 *4		00000670
000108				163	BRLIST EQU *		00000680
000108	1A96			164	AR 9,6		00000690
00010A	07F9			165	BR 9		00000700
00010C	47F0 D0F8		00114	166	B SUBF ADD		00000710
000110	9601 C41F	0082B		167	OI POINTER,X'01' CHANGED		00000720
000114	5860 501C		0001C	168	L 6,VALUE1 GET PTR TO STRING		00000730
000118	4870 5020		00020	169	LH 7,VALUE1+4 GET LENGTH OF STRING		00000740
00011C	1888			170	SR 8,8		00000750
00011E	8980 0008		00008	171	SLL 8,8		00000760
000122	4386 0000		00000	172	IC 8,0(6) GET 1 BYTE		00000770
000126	4166 0001		00001	173	LA 6,1(6) PTR TO NEXT BYTE		00000780
00012A	4670 D102		0011E	174	BCT 7,GET GO TO GET NEXT BYTE		00000790
00012E	5080 C3F0		007FC	175	ST 8,DOUBLE+4		00000800
				176	DROP 3		00000810
				177	DROP 5		00000820
000132	F273 C3EC	C3F0	007F8	007FC	PACK DOUBLE(8),DOUBLE+4(4)		00000830
000138	4F80 C3EC			007F8	CVB 8,DOUBLE		00000840
00013C	4080 C3F4		00800	180	STH 8,MIST		00000850
000140	8880 0004		00004	181	SRL 8,4 IS FAKTOR > 15		00000860
000144	1288			182	LTR 8,8		00000870
000146	4770 D328		00344	183	BNZ ERROR YES BRANCH		00000880
				184	*****		00000890
				185	* SET UP ATTENTION HANDLING EXIT		00000900
00014A	5850 200C		0000C	186	L 5,CPPLECT PASS POINTER TO ECT TO STAX		00000910
				187	STAX AEXIT,OBUF=(OUTBUF,21),USADDR=(5),MF=(E,STAXLIST)		*00000920
					REPLACE=NO		00000930
00017C	9601 C5AE	0098A		201	OI PSTAX,X'01'		00000940
000180	47F0 D1A4		001C0	202	B UADSREAD		00000950
				203	*****		00000960
000184				204	ENDE EQU *		00000970
000184	9101 C41F	0082B		205	TM POINTER,X'01' CHANGED ?		00000980
000188	4780 D178		00194	206	BZ ADDED		00000990
00018C	4170 C42B		00837	207	LA 7,MESS2		00001000
000190	47F0 D17C		00198	208	B *+8		00001010
000194	4170 C436		00842	209	ADDED LA 7,MESS3		00001020
000198	45A0 D38C		003A8	210	BAL 10,PUTL		00001030
00019C	47F0 D184		001A0	211	B RETURN		00001040
				212	*****		00001050
0001A0				213	RETURN EQU *		00001060
0001A0	9101 C5AE	0098A		214	TM PSTAX,X'01'		00001070
0001A4	4780 D190		001AC	215	BZ NOSTAX		00001080
				216	STAX		00001090
0001AC				220	NOSTAX EQU *		00001100
0001AC	5850 200C		0000C	221	L 5,CPPLECT		00001110
000000				222	USING ECT,5		00001120
0001B0	18FF			223	SR 15,15		00001130
0001B2	50F0 5000		00000	224	ST 15,ECTRCDF		00001140
0001B6	58D0 D004		00020	225	L 13,SAVE+4		00001150
0001BA	98EC D00C		0000C	226	LM 14,12,12(13)		00001160
0001BE	07FE			227	BR 14		00001170
0001C0				228	UADSREAD EQU *		00001180
				229	*** ENQ ON UADS SHARE		00001190
				230	ENQ (QNAME,RNAME,S,8,SYSTEM),RET=HAVE		00001200

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
0001D2	12FF			241	LTR 15,15		00001210
0001D4	4770 D1C0		001DC	242	BNZ ENQ		00001220
0001D8	9640 C41F	0082B		243	OI POINTER,X*40'		00001230
0001DC				244	ENQ EQU *		00001240
				245	OPEN (UADDCB,(UPDAT))		00001250
0001E6	9110 C50C	00918		251	TM UADDCB+48,B*00010000' OPEN SUCCESSFULL ?		00001260
0001EA	4780 D30F		0032A	252	BC 8,OPENER		00001270
0001EE	9610 C41F	0082B		253	OI POINTER,X*10'		00001280
0001F2	0206 C3FA C534	00806	00940	254	MVC TEXT+4(7),DYNAM		00001290
				255	** ENQ ON USERID EXCLUSIVE - IF USER ACTIV RETURN		00001300
				256	* READ HEADER BLOCK FOR USER		00001310
				257	* MOVE FAKTOR INTO BUFFER		00001320
				258	* REWRITE HEADER BLOCK		00001330
				259	**		00001340
				260	PRINT OFF		00001350
				351	**		00001690
				352	CLOSE UADDCB		00001700
00031A	45A0 C03E		0044A	358	BAL 10,DEQUE		00001710
00031E	47F0 D168		00184	359	B ENDE		00001720
				360	*****		00001730
000322				361	EXIT EQU *		00001740
000322	4170 C4A3		008AF	362	LA 7,MESSIO		00001750
000326	47F0 D352		0036E	363	B WRI		00001760
00032A				364	OPENER EQU *		00001770
00032A	D214 C3FA C48E	00806	0089A	365	MVC TEXT+4(21),MESSO		00001780
000330	4170 0019		00019	366	LA 7,25		00001790
000334	4070 C3F6		00802	367	STH 7,TEXT		00001800
000338	45A0 D39A		00386	368	BAL 10,PUTL1		00001810
00033C	45A0 C024		00430	369	BAL 10,DEQ		00001820
000340	47F0 D184		001A0	370	B RETURN		00001830
000344				371	ERROR EQU *		00001840
000344				372	PARSER EQU *		00001850
000344	4170 C420		0082C	373	LA 7,MESS1		00001860
000348	45A0 D38C		003A8	374	BAL 10,PUTL		00001870
00034C	45A0 C09E		004AA	375	BAL 10,FREE2		00001880
000350	47F0 D184		001A0	376	B RETURN		00001890
000354				377	DIRER EQU * NOT FOUND(R15=4) OR I/O ERROR ?		00001900
000354	4170 0004		00004	378	LA 7,4		00001910
000358	19F7			379	CR 15,7		00001920
00035A	4770 D34A		00366	380	BNE IDER		00001930
00035E	4170 C441		0084D	381	LA 7,MESS4		00001940
000362	47F0 D352		0036E	382	B WRI		00001950
000366	4170 C46D		00879	383	IDER LA 7,MESS7		00001960
00036A	47F0 D352		0036E	384	B WRI		00001970
00036E	45A0 D38C		003A8	385	WRI BAL 10,PUTL		00001980
000372	45A0 C024		00430	386	BAL 10,DEQ		00001990
000376	47F0 D184		001A0	387	B RETURN		00002000
00037A	4170 C44C		00858	388	INER LA 7,MESS5		00002010
00037E	47F0 D352		0036E	389	B WRI		00002020
000382	4170 C457		00863	390	INER1 LA 7,MESS50		00002030
000386	47F0 D352		0036E	391	B WRI		00002040
00038A	4170 C462		0086E	392	INUSE LA 7,MESS6		00002050
00038E	47F0 D352		0036E	393	B WRI		00002060
000392				394	NOTAL EQU *		00002070
000392	D215 C3FA C478	00806	00884	395	MVC TEXT+4(22),MESS8		00002080
000398	4170 001A		0001A	396	LA 7,26		00002090
00039C	4070 C3F6		00802	397	STH 7,TEXT		00002100
0003A0	45A0 D39A		00386	398	BAL 10,PUTL1		00002110
0003A4	47F0 D184		001A0	399	B RETURN		00002120
				400	*****		00002130

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000348				401	PUTL EQU *		00002140
0003A8	D20A C401	7000	0080D	00000	402 MVC TEXT+11(11),0(7)		00002150
0003AE	4170 0016			00016	403 LA 7,22		00002160
0003B2	4070 C3F6			00802	404 STH 7,TEXT		00002170
0003B6					405 PUTL1 EQU *		00002180
0003B6	1B66				406 SR 6,6		00002190
0003B8	5060 C4B0			0088C	407 ST 6,ECBADS		00002200
0003BC	4060 C3F8			00804	408 STH 6,TEXT+2		00002210
0003C0	5830 2004			00004	409 L 3,CPPLUPT		00002220
0003C4	5840 200C			0000C	410 L 4,CPPLECT		00002230
				411	PUTLINE PARM=PUTBLOCK,UPT=(3),ECT=(4),ECB=ECBADS, OUTPUT=(TEXT,TERM,SINGLE,DATA),MF=(E,IOPLADS)		*00002240
00040A	07FA			429	BR 10		00002250
				430	*****		00002260
				431	*****		00002270
				432	**** EXIT ROUTINE FUER STAX ****		00002280
				433	AEXIT SAVE (14,12),,AEXIT		00002290
00041A	18CF			438	LR 12,15		00002300
00040C				439	USING AEXIT,12		00002310
00041C	5851 0008			00008	440 L 5,8(1) GET POINTER TO ECT		00002320
000420	45A0 C024			00430	441 BAL 10,DEQ		00002330
000000					442 USING ECT,5 ADDRESSIBILITY FUER ECT DSECT		00002340
000424	18FF				443 SR 15,15		00002350
000426	50F0 5000			00000	444 ST 15,ECTRCDF		00002360
00042A	98EC D00C			0000C	445 LM 14,12,12(13)		00002370
00042E	07FE				446 BR 14		00002380
				447	*****		00002390
000430				448	DEQ EQU *		00002400
000430	9110 C41F			0082B	449 TM POINTER,X'10'		00002410
000434	4780 C036			00442	450 BZ NOCLOSE		00002420
					451 CLOSE UADDCB		00002430
000442					457 NOCLOSE EQU *		00002440
000442	9120 C41F			0082B	458 TM POINTER,X'20'		00002450
000446	4780 C054			00460	459 BZ NODEUSE		00002460
00044A					460 DEQUE EQU *		00002470
00044A	5860 C598			009A4	461 L 6,USERLEN		00002480
					462 DEQ (,DYNAM,(6),),MF=(E,USERDEQ)		00002490
000460					468 NODEUSE EQU *		00002500
000460	9140 C41F			0082B	469 TM POINTER,X'40'		00002510
000464	4780 C06E			0047A	470 BZ NODEUAD		00002520
					471 DEQ (QNAME,RNAME,8,SYSTEM),RET=HAVE		00002530
00047A					482 NODEUAD EQU *		00002540
00047A	4110 C5A0			009AC	483 FREE1 LA 1,POANS		00002550
					484 IKJRLSA (1)		00002560
0004A4	D203 C5A0 C5A4	009AC	009B0	498	MVC POANS(4),FF		00002570
0004AA					499 FREE2 EQU *		00002580
0004AA	9140 C41F			0082B	500 TM POINTER,X'40'		00002590
0004AE	4780 C0B4			004C0	501 BZ NOFREE		00002600
0004B2	5810 C594			009A0	502 L 1,APPL		00002610
					503 FREEMAIN R,LV=32,A=(1)		00002620
0004C0					507 NOFREE EQU *		00002630
0004C0	9200 C41F			0082B	508 MVI POINTER,X'00'		00002640
0004C4	07FA				509 BR 10		00002650
				510	*****		00002660
0004C6	0000						00002670
0004C8	0000000000000000				511 UADBUF DC 200F'0'		00002680
0007E8	E2E8E2C9D2D1E4C1				512 QNAME DC C'SYSIKJUA'		00002690
0007F0	D6D7C5D5E4C1C4E2				513 RNAME DC C'OPENUADS'		00002700
0007F8					514 DOUBLE DS D		00002710
000800	0000				515 MIST DC H'0'		00002720

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000802	0000			516	TEXT DC H'0'		00002730
000804	0000			517	TEXT DC H'0'		00002740
000806	4040404040404040			518	TEXT1 DC 26X'40'		00002750
000820	4040404040404040			519	TEXT2 DC 11X'40'		00002760
000828	00			520	POINTER DC X'00'		00002770
00082C	D7C1D9D44B40C5D9			521	MESS1 DC CL11'PARM. ERROR'		00002780
000837	C3C8C1D5C7C5C440			522	MESS2 DC CL11'CHANGED'		00002790
000842	C1C4C4C5C4404040			523	MESS3 DC CL11'ADDED'		00002800
00084D	D5D6E340C6D6E4D5			524	MESS4 DC CL11'NOT FOUND'		00002810
000858	C5D5E3C5D940D4C9			525	MESS5 DC C'ENTER MIT A'		00002820
000863	C5D5E3C5D940D4C9			526	MESS50 DC CL11'ENTER MIT C'		00002830
00086E	C9D540E4E2C54040			527	MESS6 DC CL11'IN USE'		00002840
000879	C4C9D94B40C5D9D9			528	MESS7 DC CL11'DIR. ERROR'		00002850
000884	C3D6D4D4C1D5C440			529	MESS8 DC C'COMMAND NOT AUTHORIZED'		00002860
00089A	E4C1C4E240C3C1D5			530	MESSO DC CL21'UADS CANNOT BE OPENED'		00002870
0008AF	C961D640C5D9D9D6			531	MESSIO DC CL11'I/O ERROR'		00002880
0008BC				532	ECBADS DS F		00002890
				533	PUTBLOCK PUTLINE MF=L		00002900
0008CC	0000000000000000			538	IOPLADS DC 4F'0'		00002910
				539	USERENQ ENQ (QNAME,,E,,SYSTEM),RET=USE,MF=L		00002920
				547	UADDCB DCB DDNAME=SYSUADS,MACRF=(R,W),DSORG=PO,SYNAD=EXIT		00002930
000940				598	DS OD		00002940
000940	4040404040404040			599	DYNAM DC 8X'40'		00002950
				600	UADREAD READ UADDECB,SF,,,,S',,MF=L		00002960
				609	USERDEQ DEQ (QNAME,,SYSTEM),RET=HAVE,MF=L		00002970
				617	STAXLIST STAX AEXIT,MF=L		00002980
00097C	C1E3E3D548C9D5E3			626	OUTBUF DC CL21'ATTN.INTERRUPT-DONE ?'		00002990
000991	C4D6D5C54040			627	OUT2 DC CL6'DONE'		00003000
000997	00						
000998	0000099C			628	AEVENT DC A(EVENT)		00003010
00099C	00000000			629	EVENT DC F'0'		00003020
0009A0	00000000			630	APPL DC F'0'		00003030
0009A4	00000000			631	USERLEN DC F'0'		00003040
0009A8	00000000			632	VPARM DC V(PARMTAB)		00003050
0009AC	00000000			633	POANS DC F'0'		00003060
0009B0	FF000000			634	FF DC X'FF000000'		00003070
0009B4	D200 C534 6000 00940 00000			635	MOVE MVC DYNAM(0),0(6)		00003080
0009BA	00			636	PSTAX DC X'00'		00003090
				637	IKJCPPL		00003100
				648	IKJECT		00003110
				676	IKJPPL		00003120
				691	END		00003130

## RELOCATION DICTIONARY

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POS .ID	REL .ID	FLAG	ADDRESS
01	01	0C	0000CC
01	01	0C	0001C8
01	01	0C	0001CC
01	01	08	0001E1
01	01	08	000315
01	01	0C	0003F8
01	01	08	00043D
01	01	0C	000470
01	01	0C	000474
01	01	0C	0008F0
01	01	0C	000920
01	01	0C	000960
01	01	0C	000968
01	01	0C	000998
01	03	1C	0009A8

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ADD	00004	000286	00305	0301
ADDED	00004	000194	00209	0206
ADDSpace	00001	000000	00001	0014 0045 0058 0071 0081 0091 0096 0116 0126
AEvent	00004	000998	00628	0138
AEXIT	00004	00040C	00434	0023 0024 0189 0439 0619
APPL	00004	0009A0	00630	0131 0502
BRLIST	00001	000108	00163	0160
CPPL	00001	000000	00642	0022
CPPLCBUF	00004	000000	00643	0139
CPPLECT	00004	00000C	00646	0137 0186 0221 0410
CPPLPCB	00004	000008	00645	0028
CPPLUPT	00004	000004	00644	0136 0409
C1	00004	00028E	00307	0304
DEND0009	00001	000A04	00113	0103
DENT0009	00001	0009EF	00101	0103
DEQ	00001	000430	00448	0369 0386 0441
DEQUE	00001	00044A	00460	0358
DIRER	00001	000354	00377	0280
DOUBLE	00008	0007F8	00514	0175 0178 0178 0179
DYNAM	00001	000940	00599	0254 0265 0271 0276 0465 0635
ECBADS	00004	00088C	00532	0407 0415
ECT	00001	000000	00649	0222 0442
ECTATRM	00001	000020	00667	
ECTDDNUM	00003	00001D	00672	
ECTIOWA	00004	000004	00659	
ECTLOGF	00001	000010	00669	
ECTMSGF	00001	000008	00660	
ECTNMAL	00001	000008	00670	
ECTNNOT	00001	000004	00671	
ECTNOPD	00001	000080	00666	
ECTPCMD	00008	00000C	00663	
ECTRCDF	00001	000000	00656	0224 0444
ECTRTCD	00003	000001	00657	
ECTSCMD	00008	000014	00664	
ECTSMMSG	00003	000009	00662	
ECTSWC	00001	00001C	00665	
ECTUSER	00004	000020	00673	
ENDE	00001	000184	00204	0359
ENQ	00001	0001DC	00244	0242
ERROR	00001	000344	00371	0183
EVENT	00004	00099C	00629	0628
EXIT	00001	000322	00361	0584
FF	00004	0009B0	00634	0152 0498
FREE1	00004	00047A	00483	
FREE2	00001	0004AA	00499	0375
GET	00004	00011E	00171	0174
IHB0014A	00002	00016A	00196	0197
IHB0014B	00006	00016C	00197	0195
IHB0016	00002	0001D0	00239	0232
IHB0026	00004	0002A4	00313	0311
IHB0031	00004	0002F8	00341	0339
IHB0042	00002	000478	00480	0473
IKJ\$0002	00001	000A05	00125	0039
IKJ\$0009	00001	000A04	00112	0111
IKJ\$0043	00002	0004A4	00497	0488
IKJ@0002	00001	000028	00123	0040
IKJ@0003	00001	000014	00061	0041
IKJ@0004	00001	0009D4	00054	0053
IKJ@0005	00001	0009DC	00067	0066
IKJ@0006	00001	0009E2	00078	0077



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SYMBOL	LEN	VALUE	DEFN	REFERENCES
IKJ@0007	00001	0009EA	00088	0087
IKJ@0008	00001	000044	00119	0095
IKJ@0009	00001	000A02	00110	0109
IKJ@0043	00002	00048C	00489	0496
IKJP ARMD	00001	000000	00043	0051 0056 0065 0069 0104 0114 0121 0123 0154
INER	00004	00037A	00388	0306
INER1	00004	000382	00390	0303
INUSE	00004	00038A	00392	0269
IDER	00004	000366	00383	0380
IDPLADS	00004	0008CC	00538	0412
KEND0005	00001	0009DC	00068	0064
KEW1	00002	000018	00070	0065 0161
KEYW0005	00001	0009D4	00062	0064
MESS10	00011	0008AF	00531	0362
MESS0	00021	00089A	00530	0365
MESS1	00011	00082C	00521	0373
MESS2	00011	000837	00522	0207
MESS3	00011	000842	00523	0209
MESS4	00011	00084D	00524	0381
MESS5	00011	000858	00525	0388
MESS50	00011	000863	00526	0390
MESS6	00011	00086E	00527	0392
MESS7	00011	000879	00528	0383
MESS8	00022	000884	00529	0395
MIST	00002	000800	00515	0180 0307
MOVE	00006	0009B4	00635	0159
NAME0006	00001	0009DC	00074	0076
NAME0007	00001	0009E4	00084	0086
NEND0006	00001	0009E4	00080	0076
NEND0007	00001	0009EC	00090	0086
NOCLOSE	00001	000442	00457	0450
NODEUAD	00001	00047A	00482	0470
NODEUSE	00001	000460	00468	0459
NDFREE	00001	0004C0	00507	0501
NDSTAX	00001	0001AC	00220	0215
NOTAL	00001	000392	00394	0030
OPENER	00001	00032A	00364	0252
OUTBUF	00021	00097C	00626	0193 0337
OUT2	00006	000991	00627	0337
PARMTAB	00001	0009C0	00038	0039 0042 0047 0060 0061 0073 0079 0083 0089 0093 0098 0118 0119 0124
PARSER	00001	000344	00372	0153
PEND0004	00001	0009D4	00055	0050
PDANS	00004	0009AC	00633	0142 0151 0483 0498
POINTER	00001	00082B	00520	0025 0132 0167 0205 0243 0253 0270 0302 0305 0449 0458 0469 0500 0508
PDST0004	00001	0009C6	00048	0050
PPL	00001	000000	00677	0134
PPLANS	00004	000010	00687	0143
PPLCBUF	00004	000014	00688	0139
PPL ECB	00004	000008	00685	0138
PPL ECT	00004	000004	00684	0137
PPL PCL	00004	00000C	00686	0141
PPLUPT	00004	000000	00683	0136
PPLUWA	00004	000018	00689	
PSTAX	00001	0009BA	00636	0201 0214
PUTBLOCK	00004	0008C0	00535	0417
PUTL	00001	0003A8	00401	0210 0374 0385
PUTLI	00001	000386	00405	0368 0398
QNAME	00008	0007E8	00512	0237 0478 0545 0615
RETURN	00001	0001A0	00213	0211 0370 0376 0387 0399
RNAME	00008	0007F0	00513	0238 0479

CROSS-REFERENCE

SYMBOL	LEN	VALUE	DEFN	REFERENCES
SAVE	00004	00001C	00017	0014 0015 0225
START	00001	000064	00018	0016
STAXLIST	00004	000968	00618	0188
SUBF	00004	000114	00168	0166
TEXT	00002	000802	00516	0026 0027 0027 0254 0365 0367 0395 0397 0402 0404 0408 0421
TEXT1	00001	000806	00518	
TEXT2	00001	000820	00519	
UADBUF	00004	0004C8	00511	0286 0297 0309 0327
UADDCB	00004	0008E8	00551	0249 0251 0275 0284 0325 0356 0455
UADDECB	00004	000948	00602	0282 0292 0323 0333
UADREAD	00004	000948	00601	
UADSREAD	00001	0001C0	00228	0202
USER	00004	000008	00057	0051 0155 0156
USERDEQ	00004	00095C	00610	0463
USERENQ	00004	0008DC	00540	0263
USERLEN	00004	0009A4	00631	0157 0261 0272 0461
VALUE	00002	0009ED	00095	0079 0089
VALUE1	00004	00001C	00115	0104 0168 0169
VARM	00004	0009A8	00632	0140
WRI	00004	00036E	00385	0363 0382 0384 0389 0391 0393

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NO STATEMENTS FLAGGED IN THIS ASSEMBLY  
 \*STATISTICS\* SOURCE RECORDS (SYSIN) = 313 SOURCE RECORDS (SYSLIB) = 6627  
 \*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, NOTEST, ALGN, OS, NOTERM, LINECNT = 60  
 465 PRINTED LINES

EXTERNAL SYMBOL DICTIONARY

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SYMBOL	TYPE	ID	ADDR	LENGTH	LD	ID
SPACE	SD	01	000000	000320		
IPARM	SD	02	000320	00000E		
IPARM	ER	03				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FOIMAY72	8/10/73
000000				1	SPACE CSECT		00000010
				2	* AFTER CHECKING THE COMMAND SYNTAX, THE PROCESSOR LINK TO DSSPACE		00000020
				3	* WHICH GIVES SPACE INFORMATION ABOUT ONE OR ALL THE DATA SETS		00000030
				4	* BELONGING TO THE USER, DEPENDING UPON THE COMMAND PARAMETERS		00000040
				5	* SPACE ALL PARM=X'04' INFORMATION FOR EACH DATA SET		00000050
				6	* SPACE DSNAME PARM=X'0C' INFORMATION FOR ONE DATA SET		00000060
				7	* SPACE PARM=X'02' ONLY THE SUM OF THE ALLOCATED AND USED		00000070
				8	* SPACE ARE PRINTED		00000080
				9	PRINT NOGEN		00000090
				10	SAVE (14,12),,SPACE		00000100
00000E	05A0			15	BALR 10,0		00000110
000010				16	USING *,10		00000120
000010	1821			17	LR 2,1		00000130
000000				18	USING CPPL,2		00000140
000012	41E0	A2C8	00208	19	LA 14,SAVE		00000150
000016	50ED	0008	00008	20	ST 14,8(13)		00000160
00001A	50DE	0004	00004	21	ST 13,4(14)		00000170
00001E	18DE			22	LR 13,14		00000180
000020	5020	A2B8	002C8	23	ST 2,ACPPL		00000190
				24	***** GET USER IDENTIFICATION		00000200
000024	5860	2008	00008	25	L 6,CPPLPSCB GET PSCB ADDR		00000210
000028	1877			26	SR 7,7		00000220
00002A	4376	0007	00007	27	IC 7,7(6) GET USER LENGTH		00000230
00002F	1837			28	LR 3,7 SAVE USER LENGTH		00000240
000030	0670			29	BCTR 7,0 DECREASE BY 1 FOR EX		00000250
000032	4180	A280	00290	30	LA 8,USER		00000260
000036	4470	A2C0	00200	31	EX 7,MOVEL MOVE USER ID		00000270
00003A	1A83			32	AR 8,3 SET POINTER TO FIRST BLK IN USER ID		00000280
				33	* CHECK COMMAND SYNTAX		00000290
				34	IPARM IKJPARM		00000300
				43	DSNAM IKJPOSIT DSNAME		00000310
				54	IKJENDP		00000320
				64	* PREPARE CALL TO IKJPARS		00000330
				65	GETMAIN R, LV=32 GET CORE FOR PPL		00000340
000046	1831			69	LR 3,1		00000350
000000				70	USING PPL,3		00000360
000048	D203	3000	2004	00000	00004	MVC PPLUPT(4),CPPLUPT	00000370
00004E	D203	3008	A1EC	00008	001FC	MVC PPLECB(4),AEVENT	00000380
000054	D203	3004	200C	00004	0000C	MVC PPLECT(4),CPPLECT	00000390
00005A	D203	3014	2000	00014	00000	MVC PPLCBUF(4),CPPLCBUF	00000400
000060	58B0	A1FC		0020C	00000	L 11,VIPARM	00000410
000064	50B0	300C		0000C	00000	ST 11,PPLPCL	00000420
000068	41B0	A1F8		00208	00000	LA 11,POANS	00000430
00006C	50B0	3010		00010	00000	ST 11,PPLANS	00000440
000070	D203	A1F8	A1F0	00208	00200	MVC POANS(4),NULL	00000450
000076	D203	A1DC	A1F0	001FC	00200	MVC ECBADS(4),NULL	00000460
				81	LINK EP=IKJPARS		00000470
000092	5850	3010		00010	00000	L 5,PPLANS	00000480
000096	5855	0000		00000	00000	L 5,0(5) GET POINTER TO PDL	00000490
00009A	5950	A1F4		00204	00000	C 5,FF PARS SUCCESSFULL	00000500
00009E	4780	A0F0		00100	00000	BC 8,PARSER NO ERROR	00000510
0000A2	4165	0008		00008	00000	LA 6,8(5) GET POINTER TO DSN PDE	00000520
0000A6	9180	6006	00006	00006	00000	TM 6(6),X'80' DSN PRESENT ?	00000530
0000AA	4780	A106		00116	00000	BZ TOTAL NO BRANCH	00000540
0000AE	9604	A2B4	002C4	00000	00000	OI PARM,X'04' SET IN PARM ALL OR DSNAME	00000550
0000B2	4876	0004		00004	00000	LH 7,4(6) GET LENGTH	00000560
0000B6	41B0	0003		00003	00000	LA 11,3	00000570
0000BA	5896	0000		00000	00000	L 9,0(6)	00000580
0000BE	197B			00000	00000	CR 7,11 LENGTH OF DSN=3?	00000590
0000C0	4770	A0BE	000CE	100	00000	BNE NOTALL NO BRANCH	00000600

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE	STATEMENT	FOIMAY72	8/10/73
0000C4	D502	9000	A2BC	00000	002CC	101	CLC 0(3,9),ALL	PARAMETER = ALL?	00000610
0000CA	4780	A10A			0011A	102	BE WEITER	YES BRANCH	00000620
0000CE						103	NOTALL EQU *	SPACE DSNAME	00000630
0000CE	9140	6006		00006		104	TM 6(6),X'40'	DSN IN QUOTE ?	00000640
0000D2	4710	A0E6			000F6	105	BO DSNER	YES ERROR	00000650
0000D6	9180	600E		0000E		106	TM 14(6),X'80'	MEMBER NAME PRESENT ?	00000660
0000DA	4710	A0E6			000F6	107	BO DSNER	YES ERROR	00000670
0000DE	924B	8000		00000		108	MVI 0(8),X'48'	MOVE . AFTER USER ID	00000680
0000E2	4188	0001			00001	109	LA 8,1(8)	SET POINTER TO NEXT FIRST BLK	00000690
0000E6	0670					110	BCTR 7,0	DECREASE LENGTH OF DSN BY 1 FOR EX	00000700
0000E8	1869					111	LR 6,9		00000710
0000EA	4470	A2C0			002D0	112	EX 7,MOVE1	MOVE DSNAME INTO USER FIELD	00000720
0000EE	9608	A2B4		002C4		113	OI PARM,X'08'	SET IN PARM FIELD DSNAME PRESENT	00000730
0000F2	47F0	A10A			0011A	114	B WEITER		00000740
0000F6	D20F	A21E	A200	0022E	00210	115	DSNER MVC TEXT+4(16),INVDSN		00000750
0000FC	47F0	A0F6			00106	116	B PARS2		00000760
000100	D20F	A21E	A210	0022E	00220	117	PARSER MVC TEXT+4(16),INVPARS		00000770
000106	4170	0014			00014	118	PARS2 LA 7,20		00000780
00010A	4070	A21A			0022A	119	STH 7,TEXT		00000790
00010F	4580	A184			00194	120	BAL 11,PUTL		00000800
000112	47F0	A13E			0014E	121	B RETURN		00000810
						122	*****		00000820
000116	9602	A2B4		002C4		123	TOTAL OI PARM,X'02'	SET IN PARM NO PARAM. PRESENT	00000830
00011A						124	WEITER EQU *		00000840
						125	* LINK TO DSSPACE TO COMPUTE ALLOC. AND USED SPACE		00000850
						126	LINK EP=DSSPACE,PARAM={USER,ALLO,USED,PARM,ACPL},VL=1		00000860
00014A	47F0	A13E			0014E	143	B RETURN		00000870
						144	*****		00000880
00014E						145	RETURN EQU *		00000890
00014E	1813					146	FREE LR 1,3		00000900
						147	FREEMAIN R,LV=32,A={1} RELEASE CORE FOR PPL		00000910
						151	IKJRLSA POANS RELEASE CORE FOR PDL		00000920
000180	5850	200C			0000C	165	L 5,CPPECT		00000930
000000						166	USING ECT,5		00000940
000184	1BFF					167	SR 15,15		00000950
000186	50F0	5000			00000	168	ST 15,ECTRCDF		00000960
00018A	5800	A2CC			002DC	169	L 13,SAVE+4		00000970
00018E	98EC	D00C			0000C	170	LM 14,12,12(13)		00000980
000192	07FE					171	BR 14		00000990
						172	*****		00001000
000194						173	PUTL EQU *		00001010
000194	D201	A21C	A1F0	0022C	00200	174	MVC TEXT+2(2),NULL		00001020
00019A	1B66					175	SR 6,6		00001030
00019C	5060	A1DC			001EC	176	ST 6,ECBADS		00001040
0001A0	5850	2004			00004	177	L 5,CPPLUPT		00001050
0001A4	5840	200C			0000C	178	L 4,CPPECT		00001060
						179	PUTLINE PARM=PUTBLOCK,UPT={5},ECT={4},ECB=ECBADS, OUTPUT={TEXT,TERM,SINGLE,DATA},MF={E,IOPLADS}		*00001070
0001EA	07FB					197	BR 11		00001080
						198	*****		00001090
0001EC						199	ECBADS DS F		00001100
						200	PUTBLOCK PUTLINE MF=L		00001110
0001FC	000001EC					205	AEVENT DC A{ECBADS}		00001120
000200	00000000					206	NULL DC F'0'		00001130
000204	FF000000					207	FF DC X'FF000000'		00001140
000208	00000000					208	POANS DC F'0'		00001150
00020C	00000000					209	VIPARM DC V{IPARM}		00001160
000210	C9D5E5C1D3C9C440					210	INVDSN DC CL16'INVALID DSNAME'		00001170
000220	D7C1D9E240C5D9D9					211	INVPARS DC C'PARS ERROR'		00001180
00022A	0000					212	TEXT DC H'0'		00001190
									00001200

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	F01MAY72	8/10/73
00022C	0000			213	DC H'0'		00001210
00022E	0000						
000230	0000000000000000			214	DC 20F'0'		00001220
000280	0000000000000000			215	IOPLADS DC 4F'0'		00001230
000290				216	DS OF		00001240
000290	4040404040404040			217	USER DC CL44'		00001250
0002BC	00000000			218	USED DC F'0'		00001260
0002C0	00000000			219	ALLOC DC F'0'		00001270
0002C4	00			220	PARM DC X'00'		00001280
0002C5	000000						
0002C8	00000000			221	ACPPPL DC F'0'		00001290
0002CC	C1D3D3			222	ALL DC C'ALL'		00001300
0002D0				223	DS OF		00001310
0002D0	D200 8000 6000 00000 00000			224	MOVEL MVC 0(0,8),0(6)		00001320
0002D6	0000						
0002D8	0000000000000000			225	SAVE DC 18F'0'		00001330
				226	IKJCPPPL		00001340
				237	IKJPPL		00001350
				252	IKJECT		00001360
				280	END		00001370

## RELOCATION DICTIONARY

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POS.ID	REL.ID	FLAGS	ADDRESS
01	01	0C	000080
01	01	0C	000120
01	01	0C	000124
01	01	0C	000128
01	01	0C	00012C
01	01	08	000131
01	01	0C	000138
01	01	0C	0001D8
01	01	0C	0001FC
01	03	1C	00020C

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ACPL	0004	0002C8	00221	0023 0135
AEVENT	0004	0001FC	00205	0072
ALL	0003	0002CC	00222	0101
ALLOC	0004	0002C0	00219	0131
CPPL	0001	000000	00231	0018
CPPLCBUF	0004	000000	00232	0074
CPPLCT	0004	00000C	00235	0073 0165 0178
CPPLPSCB	0004	000008	00234	0025
CPPLUPT	0004	000004	00233	0071 0177
DSNAM	0004	000008	00052	0048
DSNER	0006	0000F6	00115	0105 0107
ECBADS	0004	0001EC	00199	0080 0176 0183 0205
ECT	0001	000000	00253	0166
ECTATRM	0001	000020	00271	
ECTDDNUM	0003	00001D	00276	
ECTIDWA	0004	000004	00263	
ECTLOGF	0001	000010	00273	
ECTMSGF	0001	000008	00264	
ECTNMAL	0001	000008	00274	
ECTNNGT	0001	000004	00275	
ECTNOPD	0001	000080	00270	
ECTPCMD	0008	00000C	00267	
ECTRCDF	0001	000000	00260	0168
ECTRTCD	0003	000001	00261	
ECTSCMD	0008	000014	00268	
ECTSMSG	0003	000009	00266	
ECTSWS	0001	00001C	00269	
ECTUSER	0004	000020	00277	
FF	0004	000204	00207	0090
FREE	0002	00014E	00146	
IHB0010	0001	000120	00129	
IHB0010A	0001	000134	00136	0128
IKJ\$0002	0001	00032E	00062	0036
IKJ\$0013	0002	000180	00164	0155
IKJ@0002	0001	000020	00060	0037
IKJ@0003	0001	00000D	00056	0038
IKJ@0013	0002	000168	00156	0163
IKJPARMD	0001	000000	00040	0048 0051 0058 0060
INVDSN	0016	000210	00210	0115
INVPARS	0010	000220	00211	0117
IOPLADS	0004	000280	00215	0180
IPARM	0001	000320	00035	0036 0039 0044 0055 0056 0061
MOVEL	0006	0002D0	00224	0031 0112
NOTALL	0001	0000CE	00103	0100
NULL	0004	000200	00206	0079 0080 0174
PARM	0001	0002C4	00220	0095 0113 0123 0133
PARSER	0006	000100	00117	0091
PARS2	0004	000106	00118	0116
PEND0004	0001	00032D	00050	0047
PDANS	0004	000208	00208	0077 0079 0152
POST0004	0001	000326	00045	0047
PPL	0001	000000	00238	0070
PPLANS	0004	000010	00248	0078 0088
PPLCBUF	0004	000014	00249	0074
PPLECB	0004	000008	00246	0072
PPLECT	0004	000004	00245	0073
PPLPCL	0004	00000C	00247	0076
PPLUPT	0004	000000	00244	0071
PPLUWA	0004	000018	00250	
PUTBLOCK	0004	0001F0	00202	0185

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CROSS-REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
PUTL	00001	000194	00173	0120
RETURN	00001	00014E	00145	0121 0143
SAVE	00004	0002D8	00225	0019 0169
SPACE	00001	000000	00001	0042 0053 0063
TEXT	00002	00022A	00212	0115 0117 0119 0174 0189
TOTAL	00004	000116	00123	0094
USED	00004	0002BC	00218	0132
USER	00044	000290	00217	0030 0130
VIPARM	00004	00020C	00209	0075
WEITER	00001	00011A	00124	0102 0114

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NO STATEMENTS FLAGGED IN THIS ASSEMBLY

\*STATISTICS\* SOURCE RECORDS (SYSIN) = 137 SOURCE RECORDS (SYSLIB) = 2275  
 \*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, NOTEST, ALGN, OS, NOTERM, LINECNT = 60  
 242 PRINTED LINES

EXTERNAL SYMBOL DICTIONARY

SYMBOL	TYPE	ID	ADDR	LENGTH	LD	ID
RELEASE	SD	01	000000	000774		
PARM	SD	02	000778	00001C		
PARM	ER	03				

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000000				1	RELEASE CSECT		00000010
				2	PRINT NOGEN		00000020
				3	SAVE (14,12),,RELEASE		00000030
000010	18CF			8	LR 12,15		00000040
000000				9	USING RELEASE,12		00000050
000012	41E0 C5B0		005B0	10	LA 14,SAVE		00000060
000016	50ED 0008		00008	11	ST 14,8(13)		00000070
00001A	50DE 0004		00004	12	ST 13,4(14)		00000080
00001E	18DE			13	LR 13,14		00000090
000020	1821			14	LR 2,1		00000100
000000				15	USING CPPL,2		00000110
				16	PARM IKJPARM		00000120
				25	DSNAM IKJPOSIT DSNAME,LIST,PROMPT='DATA SET NAME'		00000130
				39	IKJENDP		00000140
				49	GETMAIN R,LV=32 GET CORE FOR PPL DSECT		00000150
00002C	9601 C3AC		003AC	53	OI POINTER,X'01' SET BIT GET CORE FOR PPL		00000160
000030	1841			54	LR 4,1		00000170
000000				55	USING PPL,4		00000180
				56	* PREPARE CALL TO IKJPARS		00000190
000032	D203 4000 2004 00000 00004			57	MVC PPLUPT(4),CPPLUPT		00000200
000038	D203 4004 200C 00004 0000C			58	MVC PPLECT(4),CPPLECT		00000210
00003E	D203 4008 C684 00008 00684			59	MVC PPLECB(4),AEVENT		00000220
000044	D203 4014 2000 00014 00000			60	MVC PPLCBUF(4),CPPLCBUF		00000230
00004A	58B0 C3A8		003A8	61	L 11,VPARM		00000240
00004E	50B0 400C		0000C	62	ST 11,PPLPCL SET POINTER TO PCL FOR PARS		00000250
000052	D203 C3A4 C34C 003A4 0034C			63	MVC POANS(4),NULL		00000260
000058	41B0 C3A4		003A4	64	LA 11,POANS SET POINTER TO ANSWER FOR PARS		00000270
00005C	50B0 4010		00010	65	ST 11,PPLANS		00000280
000060	1814			66	LR 1,4		00000290
				67	LINK EP=IKJPARS		00000300
00007A	5850 4010		00010	74	L 5,PPLANS		00000310
00007E	5855 0000		00000	75	L 5,0(5) GET POINTER TO PDL		00000320
000082	5950 C348		00348	76	C 5,FF PARS SUCCESSFULL		00000330
000086	4780 C2A6		002A6	77	BC 8,PARSER NO PRINT MESSAGE RETURN		00000340
00008A	58A0 2008		00008	78	L 10,CPPLPSCB GET PSCB ADR.		00000350
00008E	1899			79	SR 9,9		00000360
000090	439A 0007		00007	80	IC 9,7(10) GET LENGTH OF USER ID		00000370
000094	0690			81	BCTR 9,0 DECREASE BY U FOR EX		00000380
000096	4180 C470		00470	82	LA 8,DSNAME		00000390
00009A	4490 C650		00650	83	EX 9,MOVEL MOVE USER ID IN DSNAME FOR LOCATE		00000400
00009E	4189 8001		00001	84	LA 8,1(9,8)		00000410
0000A2	9248 8000		00000	85	MVI 0(8),X'4B' MOVE '.'		00000420
0000A6	4188 0001		00001	86	LA 8,1(8) SAVE ADR OF FIRST BLK		00000430
0000AA	5080 C45C		0045C	87	ST 8,ADSN2		00000440
000000				88	USING IKJPARM,5		00000450
0000AE	4165 0008		00008	89	LA 6,8(5) GET POINTER TO PDE		00000460
				90	GETMAIN R,LV=24 GET CORE FOR DAPL		00000470
0000BC	9602 C3AC		003AC	94	OI POINTER,X'02' SET BIT GETCORE FOR DAPL		00000480
0000C0	1831			95	LR 3,1		00000490
000000				96	USING DAPL,3		00000500
				97	* PREPARE CALL TO IKJDAIR		00000510
0000C2	D203 3000 2004 00000 00004			98	MVC DAPLUPT(4),CPPLUPT		00000520
0000C8	D203 3004 200C 00004 0000C			99	MVC DAPLECT(4),CPPLECT		00000530
0000CE	D203 300C 2008 0000C 00008			100	MVC DAPLPSCB(4),CPPLPSCB		00000540
0000D4	D203 3008 C684 00008 00684			101	MVC DAPLECB(4),AEVENT		00000550
				102	*****		00000560
0000DA				103	GOON EQU *		00000570
0000DA	58A6 0000		00000	104	L 10,0(6) GET POINTER TO DSNAME		00000580
0000DE	4896 0004		00004	105	LH 9,4(6) GET DSNAME LENGTH		00000590
0000E2	4180 C658		00658	106	LA 8,DSN1		00000600

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LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
0000E6	4090 C656		00656	107	STH 9,DSN	STORE LENGTH IN DSN BUFFER FOR DAIR	00000610
0000EA	0690			108	BCTR 9,0	DECREASE BY 1 FOR EXEC	00000620
0000EC	4490 C650		00650	109	EX 9,MOVEL	MOVE DSN IN DSN BUFFER FOR DAIR	00000630
0000F0	9140 6006	00006		110	TM 6(6),X'40'	DSN IN QUOTE ?	00000640
0000F4	4710 C2BC		002BC	111	BO DSNER	YES PRINT MESSAGE.GET NEXT DSN	00000650
0000F8	9180 600E	0000E		112	TM 14(6),X'80'	MEMBER NAME PRESENT ?	00000660
0000FC	4710 C2BC		002BC	113	BO DSNER	YES PRINT MESSAGE.GET NEXT DSN	00000670
000100	5880 C45C		0045C	114	L 8,ADSN2	MOVE DSNAME IN DSNAME FUER LOCATE	00000680
000104	4490 C650		00650	115	EX 9,MOVEL		00000690
				116	LOCATE LISTLOC	DATA SET IN CATALOG ?	00000700
00010E	0690			119	BCTR 9,0	RESET	00000710
000110	9240 8000	00000		120	MVI 0(8),X'40'	DSNAME TO BLANK	00000720
000114	18A8			121	LR 10,8		00000730
000116	4188 0001		00001	122	LA 8,1(8)		00000740
00011A	4490 C650		00650	123	EX 9,MOVEL		00000750
00011E	12FF			124	LTR 15,15	LOCATE SUCCESSFUL ?	00000760
000120	4780 C12C		0012C	125	BZ CATLG		00000770
000124	4190 C443		00443	126	LA 9,MESS7	NO PRINT MESSAGE.GET NEXT DSN	00000780
000128	47F0 C2CC		002CC	127	B PUTL2		00000790
00012C				128	CATLG EQU *		00000800
00012C	45A0 C1A2		001A2	129	BAL 10,DAIR		00000810
000130	4166 0018		00018	130	LA 6,24(6)	GET POINTER TO NEXT PDE ADR.	00000820
000134	D503 6000	C348 00000	00348	131	CLC 0(4,6),FF	ANY PDE ?	00000830
00013A	4780 C146		00146	132	BE RETURN	NO ENDE	00000840
00013E	5866 0000		00000	133	L 6,0(6)	GET POINTER TO NEXT PDE	00000850
000142	47F0 CODA		0000A	134	B GOON	CONTINUE	00000860
				135	*****		00000870
000146				136	RETURN EQU *		00000880
000146	4110 C3A4		003A4	137	LA 1,POANS		00000890
				138	IKJRLSA (1)		00000900
000170	9101 C3AC	003AC		152	TM POINTER,X'01'	CORE FOR PPL ?	00000910
000174	4780 C184		00184	153	BZ NOFR1		00000920
000178	1814			154	LR 1,4		00000930
				155	FREEMAIN R,LV=32,A=(1)	FREE COR FOR PPL	00000940
000184				159	NOFR1 EQU *		00000950
000184	9102 C3AC	003AC		160	TM POINTER,X'02'	CORE FOR DAPL ?	00000960
000188	4780 C198		00198	161	BZ NOFR2		00000970
00018C	1813			162	LR 1,3		00000980
				163	FREEMAIN R,LV=24,A=(1)	FREE CORE FOR DAPL	00000990
000198				167	NOFR2 EQU *		00001000
000198	58D0 C5B4		005B4	168	L 13,SAVE+4		00001010
				169	RETURN (14,12)		00001020
				172	*****		00001030
0001A2				173	DAIR EQU *	FREE SPECIFIED DATA SET	00001040
0001A2	4180 C6D8		006D8	174	LA 11,DAP18	MOVE ADR OF DAPB IN DAPL	00001050
0001A6	5080 3010		00010	175	ST 11,DAPLDAPB		00001060
0001AA	D203 C688	C34C 00688	0034C	176	MVC EVENT(4),NULL		00001070
0001B0	D227 C6D8	C74C 006D8	0074C	177	MVC DAP18(40),ORIG18	MOVE DAPB FOR FREE	00001080
0001B6	1813			178	LR 1,3		00001090
				179	LINK EP=IKJDAIR		00001100
0001CE	12FF			186	LTR 15,15	FREE SUCCESSFULL ?	00001110
0001D0	4780 C1E6		001E6	187	BZ FREED	YES - OK	00001120
0001D4	41E0 001C		0001C	188	LA 14,28		00001130
0001D8	19FE			189	CR 15,14	NOT FREED NOT ALLOCATED ?	00001140
0001DA	4780 C1E6		001E6	190	BE FREED	YES - OK	00001150
0001DE	4190 C3DF		003DF	191	LA 9,MESS3	PRINT MESSAGE.GET NEXT DSN	00001160
0001E2	47F0 C2CC		002CC	192	B PUTL2		00001170
0001E6				193	FREED EQU *		00001180
				194	* ALLOCATE SPECIFIED DATA SET		00001190
0001E6	4180 C68C		0068C	195	LA 11,DAP08		00001200

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
0001FA	5080 3010			00010	196 ST 11,DAPLDAPB		00001210
0001EE	D203 C688 C34C 00688		0034C	197 MVC EVENT(4),NULL			00001220
0001F4	1813			198 LR 1,3			00001230
0001F6	D248 C68C C700 0068C		00700	199 MVC DAP08(76),ORIG08			00001240
				200 LINK EP=IKJDAIR ALLOC MOD,KEEP,KEEP,RLSE,PREFIX			00001250
000212	12FF			207 LTR 15,15 SUCCESSFULL ?			00001260
000214	4780 C220		00220	208 BZ OK1			00001270
000218	4190 C3C6		003C6	209 LA 9,MESS2			00001280
00021C	47F0 C2CC		002CC	210 B PUTL2			00001290
000220				211 OK1 EQU *			00001300
000220	9180 C6D7	006D7		212 TM DORG,X'80' DSORG = ISAM ?			00001310
000224	4710 C29E		0029E	213 BO ISAM			00001320
000228	9120 C6D7	006D7		214 TM DORG,X'20' DSORG = DA ?			00001330
00022C	4710 C29E		0029E	215 BO DIRECT			00001340
000230	D207 C620 C698 00620		00698	216 MVC OUT+40(8),DA08DDNM MOVE DDNAME INTO DCB			00001350
000236	D200 C612 C6D7 00612		006D7	217 MVC OUT+26(1),DORG MOVE DSORG INTO DCB			00001360
				218 OPEN (OUT,(OUTPUT)) OPEN FOR OUTPUT			00001370
000246	9110 C628	00628		224 TM OUT+48,B'00010000' OPEN SUCCESSFULL ?			00001380
00024A	4710 C256		00256	225 BC 1,OK3 YES BRANCH			00001390
00024F	4190 C3F8		003F8	226 LA 9,MESS4 NO - PRINT MESSAGE - GET NEXT DSN			00001400
000252	47F0 C2C4		002C4	227 B PUTL1			00001410
000256				228 OK3 EQU *			00001420
				229 CLOSE OUT CLOSE DATA SET			00001430
000262				235 DAIR1 EQU * FREE ALLOCATED DATA SET			00001440
000262	D203 C688 C34C 00688		0034C	236 MVC EVENT(4),NULL			00001450
000268	4180 C6D8		006D8	237 LA 11,DAP18			00001460
00026C	5080 3010		00010	238 ST 11,DAPLDAPB			00001470
000270	1813			239 LR 1,3			00001480
000272	D227 C6D8 C74C 006D8		0074C	240 MVC DAP18(40),ORIG18 MOVE DAPB FOR FREE			00001490
				241 LINK EP=IKJDAIR			00001500
00028E	12FF			248 LTR 15,15 DAIR SUCCESSFULL ?			00001510
000290	4780 C29C		0029C	249 BZ OK2 YES BRANCH			00001520
000294	4190 C3DF		003DF	250 LA 9,MESS3 NO PRINT MESSAGE			00001530
000298	47F0 C2CC		002CC	251 B PUTL2			00001540
00029C				252 OK2 EQU *			00001550
00029C	07FA			253 BR 10 GET NEXT DSNAME			00001560
				254 *****			00001570
00029E				255 ISAM EQU *			00001580
00029E	4190 C42A		0042A	256 DIRECT LA 9,MESS6			00001590
0002A2	47F0 C2C4		002C4	257 B PUTL1			00001600
0002A6	4170 001D		0001D	258 PARSER LA 7,29			00001610
0002AA	4070 C350		00350	259 STH 7,TEXT			00001620
0002AE	D218 C354 C411 00354		00411	260 MVC TEXT1(25),MESS5			00001630
0002B4	4580 C2E4		002E4	261 BAL 11,PUTL3			00001640
0002B8	47F0 C146		00146	262 B RETURN			00001650
0002BC	4190 C3AD		003AD	263 DSNER LA 9,MESS1			00001660
0002C0	47F0 C2CC		002CC	264 B PUTL2			00001670
0002C4	4180 C262		00262	265 PUTL1 LA 11,DAIR1			00001680
0002C8	47F0 C2D0		002D0	266 B PUTL20			00001690
0002CC				267 PUTL2 EQU *			00001700
0002CC	4180 C130		00130	268 LA 11,NEXT			00001710
0002D0	D228 C354 C658 00354		00658	269 PUTL20 MVC TEXT1(44),DSN1			00001720
0002D6	D218 C380 9000 00380		00000	270 MVC TEXT1+44(25),0(9)			00001730
0002DC	4170 0049		00049	271 LA 7,73			00001740
0002E0	4070 C350		00350	272 STH 7,TEXT			00001750
0002E4				273 PUTL3 EQU *			00001760
0002E4	D201 C352 C34C 00352		0034C	274 MVC TEXT+2(2),NULL			00001770
0002EA	5880 2004		00004	275 L 8,CPPLUPT			00001780
0002EE	5890 200C		0000C	276 L 9,CPPLECT			00001790
0002F2	D203 C688 C34C 00688		0034C	277 MVC EVENT(4),NULL			00001800

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
				278	PUTLINE PARM=PUTL,UPT=(8),ECT=(9),ECB=EVENT,MF=(E,I,OPL)		00001810
00032A	07FB			292	BR 11		00001820
				293	*****		00001830
				294	PUTL PUTLINE OUTPUT=(TEXT,,DATA),MF=L		00001840
000338	0000000000000000			301	I OPL DC 4F'0'		00001850
000348	FF000000			302	FF DC X'FF000000'		00001860
00034C	00000000			303	NULL DC F'0'		00001870
000350	00000000			304	TEXT DC F'0'		00001880
000354	4040404040404040			305	TEXT1 DC CL80' '		00001890
0003A4	00000000			306	PDANS DC F'0'		00001900
0003A8	00000000			307	V PARM DC V(PARM)		00001910
0003AC	00			308	POINTER DC X'00'		00001920
0003AD	C9D5E5C1D3C9C440			309	MESS1 DC CL25'INVALID DATA SET NAME'		00001930
0003C6	C1D3D3D6C3C1E3C5			310	MESS2 DC CL25'ALLOCATE ERROR'		00001940
0003DF	C6D9C5C540C5D9D9			311	MESS3 DC CL25'FREE ERROR'		00001950
0003F8	D6D7C5D540C5D9D9			312	MESS4 DC CL25'OPEN ERROR'		00001960
000411	D7C1D9C1D4C5E3C5			313	MESS5 DC CL25'PARAMETER ERROR'		00001970
00042A	C9E2C1D440D6D940			314	MESS6 DC CL25'ISAM OR DO DATEI'		00001980
000443	D5D6E340C3C1E3D3			315	MESS7 DC CL25'NOT CATLG OR LOCATE ERROR'		00001990
00045C	00000000			316	ADSN2 DC F'0'		00002000
				317	LISTLOC CAMLST NAME,DSNAME,,LOCAREA		00002010
000470	4040404040404040			326	DSNAME DC CL44' '		00002020
0004A0				327	LOCAREA DS OD		00002030
0004A0	4040404040404040			328	DC CL200' '		00002040
000568	4040404040404040			329	DC CL70' '		00002050
0005AE	0000						
0005B0	0000000000000000			330	SAVE DC 18F'0'		00002060
				331	OUT DCB DDNAME=OUTPUT,DSORG=PS,MACRF=(R,W)		00002070
000650	D200 8000 A000 00000 00000			382	MOVEL MVC 0(0,8),0(10)		00002080
000656	0000			383	DSN DC H'0'		00002090
000658	4040404040404040			384	DSN1 DC CL44' '		00002100
000684	00000688			385	AEVENT DC A(EVENT)		00002110
000688	00000000			386	EVENT DC F'0'		00002120
00068C	0008			387	DAP08 DC X'0008'		00002130
00068E	00000000000000			388	DC 6X'00'		00002140
000694	00000656			389	DA08DSN DC A(DSN)		00002150
000698	4040404040404040			390	DA08DDNM DC 24C' '		00002160
0006B0	0000000000000000			391	DC 4F'0'		00002170
0006C0	4040404040404040			392	DC 16C' '		00002180
0006D0	02080810			393	DC X'02080810'		00002190
0006D4	000000			394	DC X'000000'		00002200
0006D7	00			395	DORG DC X'00'		00002210
0006D8	0018			396	DAP18 DC X'0018'		00002220
0006DA	000000000000			397	DC 6X'00'		00002230
0006E0	00000656			398	DC A(DSN)		00002240
0006E4	4040404040404040			399	DC 18C' '		00002250
0006F6	0810			400	DC X'0810'		00002260
0006F8	4040404040404040			401	DC 8C' '		00002270
000700	0008			402	ORIG08 DC X'0008'		00002280
000702	000000000000			403	DC 6X'00'		00002290
000708	00000656			404	DC A(DSN)		00002300
00070C	4040404040404040			405	DC 24C' '		00002310
000724	0000000000000000			406	DC 4F'0'		00002320
000734	4040404040404040			407	DC 16C' '		00002330
000744	02080830			408	DC X'02080830'		00002340
000748	00000000			409	DC 4X'00'		00002350
00074C	0018			410	ORIG18 DC X'0018'		00002360
00074E	2000			411	DC X'2000'		00002370
000750	00000000			412	DC 4X'00'		00002380
000754	00000656			413	DC A(DSN)		00002390

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	F01MAY72	8/10/73
000758	40404040404040			414	DC 18C' '		00002400
00076A	0830			415	DC X'0830'		00002410
00076C	40404040404040			416	DC 8C' '		00002420
				417	IKJDAPL		00002430
				431	IKJCPPL		00002440
				442	IKJPPL		00002450
				457	END		00002460

## RELOCATION DICTIONARY

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POS.ID	REL.ID	FLAGS	ADDRESS
01	01	0C	000068
01	01	0C	00018C
01	01	0C	000200
01	01	08	000241
01	01	08	000250
01	01	0C	00027C
01	01	0C	000318
01	01	0C	000330
01	01	0C	000464
01	01	0C	00046C
01	01	0C	000684
01	01	0C	000694
01	01	0C	0006E0
01	01	0C	000708
01	01	0C	000754
01	03	1C	0003A8

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ADSN2	00004	00045C	00316	0087 0114
AEVENT	00004	000684	00385	0059 0101
CATLG	00001	00012C	00128	0125
CPPL	00001	000000	00436	0015
CPPLCBUF	00004	000000	00437	0060
CPPLECT	00004	00000C	00440	0058 0099 0276
CPPLPCB	00004	000008	00439	0078 0100
CPPLUPT	00004	000004	00438	0057 0098 0275
DAIR	00001	0001A2	00173	0129
DAIR1	00001	000262	00235	0265
DAPL	00001	000000	00423	0096
DAPLDAPB	00004	000010	00429	0175 0196 0238
DAPLECB	00004	000008	00427	0101
DAPLECT	00004	000004	00426	0099
DAPLPCB	00004	00000C	00428	0100
DAPLUPT	00004	000000	00425	0098
DAP08	00002	00068C	00387	0195 0199
DAP18	00002	000608	00396	0174 0177 0237 0240
DA08DDNM	00001	000698	00390	0216
DA08DSN	00004	000694	00389	
DIRECT	00004	00029E	00256	0215
DORG	00001	000607	00395	0212 0214 0217
DSN	00002	000656	00383	0107 0389 0398 0404 0413
DSNAM	00004	000008	00036	0030
DSNAME	00044	000470	00326	0082 0323
DSNER	00004	00028C	00263	0111 0113
DSN1	00044	000658	00384	0106 0269
EVENT	00004	000688	00386	0176 0197 0236 0277 0282 0385
FF	00004	000348	00302	0076 0131
FREED	00001	0001E6	00193	0187 0190
GOON	00001	0000DA	00103	0134
IKJ\$0002	00001	000794	00047	0018
IKJ\$0012	00002	000170	00151	0142
IKJ@0002	00001	000028	00045	0019
IKJ@0003	00001	000018	00041	0020
IKJ@0004	00001	000793	00033	0032
IKJ@0012	00002	000158	00143	0150
IKJPARMD	00001	000000	00022	0030 0035 0043 0045 0088
IOPL	00004	000338	00301	0279
ISAM	00001	00029E	00255	0213
LISTLOC	00004	000460	00318	0117
LOCAREA	00008	0004A0	00327	0325
MESS1	00025	0003AD	00309	0263
MESS2	00025	0003C6	00310	0209
MESS3	00025	00030F	00311	0191 0250
MESS4	00025	0003F8	00312	0226
MESS5	00025	000411	00313	0260
MESS6	00025	00042A	00314	0256
MESS7	00025	000443	00315	0126
MOVEL	00006	000650	00382	0083 0109 0115 0123
NEXT	00004	000130	00130	0268
NDFR1	00001	000184	00159	0153
NDFR2	00001	000198	00167	0161
NULL	00004	00034C	00303	0063 0176 0197 0236 0274 0277
OK1	00001	000220	00211	0208
OK2	00001	00029C	00252	0249
OK3	00001	000256	00228	0225
ORIG08	00002	000700	00402	0199
ORIG18	00002	00074C	00410	0177 0240
OUT	00004	0005F8	00335	0216 0217 0222 0224 0233

## CROSS-REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
PARM	00001	000778	00017	0018 0021 0026 0040 0041 0046
PARSER	00004	0002A6	00258	0077
PEND0004	00001	000793	00034	0029
PDANS	00004	0003A4	00306	0063 0064 0137
POINTER	00001	0003AC	00308	0053 0094 0152 0160
POST0004	00001	00077E	00027	0029
PPL	00001	000000	00443	0055
PPLANS	00004	000010	00453	0065 0074
PPLCBUF	00004	000014	00454	0060
PPLECB	00004	000008	00451	0059
PPECT	00004	000004	00450	0058
PPLPCL	00004	00000C	00452	0062
PPLUPT	00004	000000	00449	0057
PPLUWA	00004	000018	00455	
PUTL	00001	00032C	00296	0284
PUTL1	00004	0002C4	00265	0227 0257
PUTL2	00001	0002CC	00267	0127 0192 0210 0251 0264
PUTL20	00006	0002D0	00269	0266
PUTL3	00001	0002E4	00273	0261
RELEASE	00001	000000	00001	0009 0024 0038 0048
RETURN	00001	000146	00136	0132 0262
SAVE	00004	0005B0	00330	0010 0168
TEXT	00004	000350	00304	0259 0272 0274 0299
TEXT1	00080	000354	00305	0260 0269 0270
VPARAM	00004	0003A8	00307	0061

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NO STATEMENTS FLAGGED IN THIS ASSEMBLY  
 \*STATISTICS\* SOURCE RECORDS (SYSIN) = 246 SOURCE RECORDS (SYSLIB) = 4655  
 \*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, NOTEST, ALGN, OS, NOTERM, LINECNT = 60  
 374 PRINTED LINES

EXTERNAL SYMBOL DICTIONARY

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SYMBOL TYPE ID ADDR LENGTH LD ID

COMPRESS	SD	01	000000	000844	
PARM	SD	02	000848	00003B	
PARM	ER	03			

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FOIMAY72	8/10/73
000000				1	COMPRESS CSECT		00000010
				2	PRINT NOGEN		00000020
				3	SAVE (14,12),,COMPRESS		00000030
000012	18CF			8	LR 12,15		00000040
000000				9	USING COMPRESS,12		00000050
000014	41E0 C660		00660	10	LA 14,SAVE		00000060
000018	50ED 0008		00008	11	ST 14,8(13)		00000070
00001C	50DE 0004		00004	12	ST 13,4(14)		00000080
000020	18DE			13	LR 13,14		00000090
000022	1821			14	LR 2,1		00000100
000000				15	USING CPPL,2		00000110
				16	PARM IKJPARM		00000120
				25	DSNAM IKJPOSIT DSNAME,PROMPT='DATA SET NAME'		00000130
				38	KEW1 IKJKEYWD DEFAULT='LIST'		00000140
				51	IKJNAME 'LIST'		00000150
				60	IKJNAME 'NOLIST'		00000160
				69	IKJENDP		00000170
				78	GETMAIN R,LV=32 GET CORE FOR PPL		00000180
00002E	9601 C588		00588	82	OI POINTER,X'01'		00000190
000032	1841			83	LR 4,1		00000200
000000				84	USING PPL,4		00000210
				85	** PREPARE CALL TO IKJPARS		00000220
000034	D203 4000 2004 00000 00004			86	MVC PPLUPT(4),CPPLUPT		00000230
00003A	D203 4004 200C 00004 0000C			87	MVC PPLECT(4),CPPLECT		00000240
000040	D203 4008 C784 00008 00784			88	MVC PPLECB(4),AEVENT		00000250
000046	D203 4014 2000 00014 00000			89	MVC PPLCBUF(4),CPPLCBUF		00000260
00004C	58B0 C584		00584	90	L 11,VPARM		00000270
000050	50B0 400C		0000C	91	ST 11,PPLPCL		00000280
000054	D203 C580 C524 00580		00524	92	MVC POANS(4),NULL		00000290
00005A	41B0 C580		00580	93	LA 11,POANS		00000300
00005E	50B0 4010		00010	94	ST 11,PPLANS		00000310
000062	1814			95	LR 1,4		00000320
				96	LINK EP=IKJPARS		00000330
00007A	5850 4010		00010	103	L 5,PPLANS		00000340
00007F	5855 0000		00000	104	L 5,0(5) GET POINTER TO PDL		00000350
000082	5950 C520		00520	105	C 5,FF PARS SUCCESSFULL ?		00000360
000086	4780 C2E6		002E6	106	BC 8,PARSER		00000370
000000				107	USING IKJPARMD,5		00000380
00008A	4165 0008		00008	108	LA 6,8(5) GET POINTER TO PDE		00000390
				109	** PREPARE CALL TO IKJDAIR		00000400
				110	GETMAIN R,LV=24 GET CORE FOR DAPL		00000410
000098	9602 C588		00588	114	OI POINTER,X'02'		00000420
00009C	1831			115	LR 3,1		00000430
000000				116	USING DAPL,3		00000440
00009E	D203 3000 2004 00000 00004			117	MVC DAPLUPT(4),CPPLUPT		00000450
0000A4	D203 3004 200C 00004 0000C			118	MVC DAPLECT(4),CPPLECT		00000460
0000AA	D203 300C 2008 0000C 00008			119	MVC DAPLPSCB(4),CPPLPSCB		00000470
0000B0	D203 3008 C784 00008 00784			120	MVC DAPLECB(4),AEVENT		00000480
0000B6				121	GOON EQU *		00000490
0000B6	58A6 0000		00000	122	L 10,0(6) GET POINTER TO DSNAME		00000500
0000BA	4896 0004		00004	123	LH 9,4(6) GET DSNAME LENGTH		00000510
0000BE	4180 C6B0		006B0	124	LA 8,DSN1		00000520
0000C2	4090 C6AE		006AE	125	STH 9,DSN STORE LENGTH IN DSN BUFFER FOR DAIR		00000530
0000C6	0690			126	BCTR 9,0 DECREASE BY 1 FOR EX		00000540
0000C8	4490 C6A8		006A8	127	EX 9,MOVEL MOVE DSN INTO DSN BUFFER FOR DAIR		00000550
0000CC	9140 6006		00006	128	TM 6(6),X'40' DSN IN QUOTE ?		00000560
0000D0	4710 C304		00304	129	BO DSNER YES ERROR		00000570
0000D4	9180 600E		0000E	130	TM 14(6),X'80'		00000580
0000D8	4710 C304		00304	131	BO DSNER MBER NAME PRESENT YES ERROR		00000590
0000DC	4890 5020		00020	132	LH 9,KEW1 GET KEYWORD NR.		00000600

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	F01MAY72	8/10/73
0000E0	0690			133	BCTR 9,0		00000610
0000E2	1299			134	LTR 9,9		00000620
0000E4	4780 C0EC		000EC	135	BZ ALLOC		00000630
0000E8	9601 C65C	0065C		136	OI OPLIST,X'01'		00000640
				137	*****		00000650
				138	***** ALLOC USER DATASET BY DSNAM AND DDNAME		00000660
				139	* INPUT/OUTPUT DATA SET FOR IEBCOPY		00000670
0000EC	4180 C6AE		006AE	140	ALLOC LA 11,DSN		00000680
0000F0	5080 C718		00718	141	ST 11,ADSN08		00000690
0000F4	9201 C754	00754		142	MVI STAT08,OLD		00000700
0000F8	D201 C755 C70A	00755	0070A	143	MVC DISP108(2),KEEP		00000710
0000FE	9220 C757	00757		144	MVI CTL08,PREFIX PREFIX USERID		00000720
000102	D207 C71C C7A4	0071C	007A4	145	MVC DD08(8),INOUT MOVE REQUESTED DDNAME		00000730
000108	45A0 C35C		0035C	146	BAL 10,DAIR08		00000740
00010C	12FF			147	LTR 15,15 SUCCESSFULL ?		00000750
00010E	4780 C13E		0013E	148	BZ OK		00000760
000112	41F0 0014		00014	149	LA 14,20		00000770
000116	19EF			150	CR 14,15 DDNAME UNAVAILABLE		00000780
000118	4780 C12C		0012C	151	BE USED YES PRINT MESSAGE		00000790
00011C	4190 C5A2		005A2	152	LA 9,MESS2 NO		00000800
000120	45A0 C4E8		004E8	153	BAL 10,CODE CONVERT RETURN CODE - MOVE IN MESSAGE		00000810
000124	45A0 C396		00396	154	BAL 10,PUTL2		00000820
000128	47F0 C274		00274	155	B RETURN1		00000830
00012C				156	USED EQU *		00000840
00012C	D207 C530 C71C	00530	0071C	157	MVC TEXT1(8),DD08		00000850
000132	4190 C606		00606	158	LA 9,MESS6		00000860
000136	45A0 C384		00384	159	BAL 10,PUTL1		00000870
00013A	47F0 C28A		0028A	160	B RETURN		00000880
00013F				161	OK EQU *		00000890
00013E	9102 C75B	0075B		162	TM DORG08,X'02' DSDRG = PD ?		00000900
000142	4710 C152		00152	163	BO OKK YES OK		00000910
000146	4190 C5D4		005D4	164	LA 9,MESS4 NO PRINT MESSAGE		00000920
00014A	45A0 C396		00396	165	BAL 10,PUTL2		00000930
00014E	47F0 C274		00274	166	B RETURN1		00000940
000152	45A0 C3F4		003F4	167	OKK BAL 10,RESET08 CLEAR DAIR PARAM. BLOCK		00000950
				168	***** ALLOC TSO749.COPY.DATA BY DSNAM *****		00000960
				169	***** SYSIN DATA SET FOR IEBCOPY *****		00000970
000156	4180 C6DC		006DC	170	LA 11,TSODSN		00000980
00015A	5080 C718		00718	171	ST 11,ADSN08		00000990
00015E	9208 C754	00754		172	MVI STAT08,SHR		00010000
000162	D201 C755 C70A	00755	0070A	173	MVC DISP108(2),KEEP		00010100
000168	45A0 C35C		0035C	174	BAL 10,DAIR08		00010200
00016C	D207 C79C C71C	0079C	0071C	175	MVC SYSIN(8),DD08 SAVE DDNAME RETURN BY DAIR		00010300
000172	12FF			176	LTR 15,15 ALLOC. SUCCESSFULL ?		00010400
000174	4780 C18E		0018E	177	BZ OK1 YES BRANCH		00010500
000178	D228 C530 C6DE	00530	006DE	178	MVC TEXT1(44),TSODSN+2 NO MOVE DSNAM INTO MESS		00010600
00017E	4190 C5A2		005A2	179	LA 9,MESS2		00010700
000182	45A0 C4E8		004E8	180	BAL 10,CODE CONVERT CODE AND MOVE IN MESS		00010800
000186	45A0 C39C		0039C	181	BAL 10,PUTL21 PRINT MESS		00010900
00018A	47F0 C274		00274	182	B RETURN1 RETURN		00011000
00018E	45A0 C3F4		003F4	183	OK1 BAL 10,RESET08 CLEAR DAIR PARAM. BLOCK		00011100
				184	***** ALLOC SYSUT3,SYSUT4 *****		00011200
000192	4180 0002		00002	185	LA 8,2 LOAD COUNT		00011300
000196	4190 C78C		0078C	186	LA 9,SYSUT3 GET ADDR OF AREA TO SAVE DDNAME RETURN		00011400
				187	* BY DAIR		00011500
00019A	4180 C7D0		007D0	188	LA 11,UT3 GET ADDR OF DSN BUFFER FOR DAIR		00011600
00019E				189	UALLOC EQU *		00011700
00019F	41A0 000A		0000A	190	LA 10,10		00011800
0001A2	50A0 C738		00738	191	ST 10,SP1 PRIMARY QUANTITY		00011900
0001A6	50A0 C73C		0073C	192	ST 10,SP2 SECONDARY QUANTITY		00012000

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
0001AA	5080	C718		00718	193	ST 11,ADSN08 SAVE ADDR OF DSN BUFFER IN DAPL		00001210
0001AE	D207	C724	C7B4	00724	194	MVC UNIT08(8),SYSDA MOVE UNIT NAME INTO DAPB		00001220
0001B4	9204	C754		00754	195	MVI STAT08,NEW		00001230
0001B8	D201	C755	C70C	00755	196	MVC DISP108(2),DEL		00001240
0001BE	9280	C757		00757	197	MVI CTLO8,TRK SPACE IN TRKS		00001250
0001C2	45A0	C35C		0035C	198	BAL 10,DAIR08		00001260
0001C6	D207	9000	C71C	00000	199	MVC 0(8,9),DD08 SAVE DDNAME RETURN BY DAIR		00001270
0001CC	12FF				200	LTR 15,15 DAIR SUCCESSFULL ?		00001280
0001CE	4780	C1E8		001E8	201	BZ OK2 YES - BRANCH		00001290
0001D2					202	ERROR EQU *		00001300
0001D2	D207	C530	B002	00530	203	MVC TEXT1(8),2(11) NO - MOVE DSN INTO MESSAGE		00001310
0001D8	4190	C5A2		005A2	204	LA 9,MESS2		00001320
0001DC	45A0	C4E8		004E8	205	BAL 10,CODE CONVERT CODE - MOVE IN MESSAGE		00001330
0001E0	45A0	C39C		0039C	206	BAL 10,PUTL21 PRINT MESSAGE		00001340
0001E4	47F0	C274		00274	207	B RETURN1		00001350
0001E8	45A0	C3F4		003F4	208	OK2 BAL 10,RESET08 CLEAR DAPB		00001360
0001EC	4199	0008		00008	209	LA 9,8(9) GET ADDR OF NEXT DSN		00001370
0001F0	418B	000A		0000A	210	LA 11,10(11) GET ADDR OF NEXT AREA FOR DDNAME		00001380
0001F4	4680	C19E		0019E	211	BCT 8,UALLOC BRANCH TO ALLOC. NEXT UTILITY DATA SET		00001390
					212	***** ALLOCATE TERMINAL OR DUMMY DATA SET FOR SYSPRINT ***		00001400
0001F8	9101	C65C	0065C		213	TM OPLIST,X'01' NOLIST ?		00001410
0001FC	4710	C246		00246	214	BO DUMMY YES BR.		00001420
					215	*****		00001430
000200					216	TERM EQU * ALLOC TERMINAL AS "SYSPRINT" FOR IEBCOPY		00001440
000200	921C	C711		00711	217	MVI DAP08+1,X'1C' SET CODE FOR TERMINAL ALLOCATION		00001450
000204	9240	C718		00718	218	MVI ADSN08,X'40' SET DDNAME BLANCK		00001460
000208	D206	C719	C718	00719	219	MVC ADSN08+1(7),ADSN08		00001470
00020E	D205	C712	C524	00712	220	MVC FLG08(6),NULL SET FLAGS TO ZERO		00001480
000214	45A0	C35C		0035C	221	BAL 10,DAIR08		00001490
000218	D207	C7AC	C718	007AC	222	MVC SYSPRINT(8),ADSN08 SAVE DDNAME RETURNED BY DAIR		00001500
00021E	12FF				223	LTR 15,15 YES BRANCH		00001510
000220	4780	C242		00242	224	BZ ATERM NO		00001520
000224	4190	C61F		0061F	225	LA 9,MESS8 CONVERT CODE - MOVE IN MESSAGE		00001530
000228	45A0	C4E8		004E8	226	BAL 10,CODE		00001540
00022C	D218	C530	C61F	00530	227	MVC TEXT1(25),MESS8		00001550
000232	4170	001D		0001D	228	LA 7,29		00001560
000236	4090	C52C		0052C	229	STH 9,TEXT		00001570
00023A	45A0	C3AA		003AA	230	BAL 10,PUTL PRINT MESSAGE		00001580
00023E	47F0	C274		00274	231	B RETURN1		00001590
000242					232	ATERM EQU *		00001600
000242	47F0	C270		00270	233	B LINK		00001610
					234	*****		00001620
					235	***** ALLOCATE DUMMY DATA SET AS "SYSPRINT" FOR IEBCOPY **		00001630
000246					236	DUMMY EQU *		00001640
000246	4180	C652		00652	237	LA 11,NULLFILE		00001650
00024A	5080	C718		00718	238	ST 11,ADSN08		00001660
00024E	9201	C754	00754		239	MVI STAT08,OLD		00001670
000252	D201	C755	C70A	00755	240	MVC DISP108(2),KEEP		00001680
000258	45A0	C35C		0035C	241	BAL 10,DAIR08		00001690
00025C	D207	C7AC	C71C	007AC	242	MVC SYSPRINT(8),DD08		00001700
000262	12FF				243	LTR 15,15		00001710
000264	4780	C26C		0026C	244	BZ OK3		00001720
000268	47F0	C1D2		001D2	245	B ERROR		00001730
00026C	45A0	C3F4		003F4	246	OK3 BAL 10,RESET08		00001740
					247	*****		00001750
000270					248	LINK EQU *		00001760
000270	45A0	C43C		0043C	249	BAL 10,ULINK GO TO LINK TO IEBCOPY		00001770
					250	*****		00001780
000274					251	RETURN1 EQU *		00001790
000274	4180	0005		00005	252	LA 8,5 COUNT FOR FREE		00001800

LOC	OBJECT CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	F01MAY72	8/10/73
000278	4190 C78C		0078C	253	LA 9,SYSUT3 ADDR OF FIRST DDNAME TO BE FREE		00001810
00027C	4560 C310		00310	254	BAL 6,LFREE		00001820
000280	47F0 C28A		0028A	255	B RETURN NORMAL RETURN OF LFREE		00001830
000284	189B			256	LR 9,11 RESTORE PTR TO DDANME RETURN FOR LFREE UNSUCCESS-		00001840
				257 *	FULL		00001850
000286	47F0 C34E		0034E	258	B FREE		00001860
				259	*****		00001870
00028A				260	RETURN EQU *		00001880
00028A	4110 C580		00580	261	LA 1,PDANS		00001890
				262	IKJRLSA (1)		00001900
000284	9101 C588	00588		276	TM POINTER,X'01'		00001910
000288	4780 C2C8		002C8	277	BZ NOFR1		00001920
00028C	1814			278	LR 1,4		00001930
				279	FREEMAIN R,LV=32,A=(1) FREE CORE FOR PPL		00001940
0002C8				283	NOFR1 EQU *		00001950
0002C8	9102 C588	00588		284	TM POINTER,X'02'		00001960
0002CC	4780 C2DC		002DC	285	BZ NOFR2		00001970
0002D0	1813			286	LR 1,3		00001980
				287	FREEMAIN R,LV=24,A=(1) FREE CORE FOR DAPL		00001990
0002DC				291	NOFR2 EQU *		00002000
0002DC	58D0 C664		00664	292	L 13,SAVE+4		00002010
				293	RETURN (14,12)		00002020
				296	*****		00002030
0002E6	4170 001D		0001D	297	PARSER LA 7,29		00002040
0002EA	4070 C52C		0052C	298	STH 7,TEXT		00002050
0002EE	4190 C5ED		005ED	299	LA 9,MESS5		00002060
0002F2	45A0 C4E8		004E8	300	BAL 10,CODE		00002070
0002F6	D218 C530	C5ED 00530	005ED	301	MVC TEXT1(25),MESS5		00002080
0002FC	45A0 C3AA		003AA	302	BAL 10,PUTL		00002090
000300	47F0 C28A		0028A	303	B RETURN		00002100
000304	4190 C589		00589	304	DSNER LA 9,MESS1		00002110
000308	45A0 C396		00396	305	BAL 10,PUTL2		00002120
00030C	47F0 C28A		0028A	306	B RETURN		00002130
				307	*****		00002140
000310				308	LFREE EQU * FREE ALLOCATED DATA SETS		00002150
000310	9540 9000	00000		309	CLI 0(9),X'40' DDNAME ALLOCATED ?		00002160
000314	4780 C352		00352	310	BE NOFREE NO SKIP		00002170
000318	D207 C768	9000 00768	00000	311	MVC DD18(8),0(9) MOVE DDNAME		00002180
00031E	41B0 C75C		0075C	312	LA 11,DAP18 GET DAPB ADR		00002190
000322	50B0 3010		00010	313	ST 11,DAPLDAPB STORE IN DAPL		00002200
000326	45A0 C364		00364	314	BAL 10,DAIR LINK TO DAIR		00002210
00032A	12FF			315	LTR 15,15 FREE SUCCESSFULL		00002220
00032C	4780 C34E		0034E	316	BZ FREE YES BRANCH		00002230
000330	41E0 001C		0001C	317	LA 14,28 NOT FREE ,NOT ALLOCATED ?		00002240
000334	19FE			318	CR 15,14 YES OK		00002250
000336	4780 C34E		0034E	319	BE FREE		00002260
00033A	18B9			320	LR 11,9 SAVE PTR TO DDNAME		00002270
00033C	D207 C530	9000 00530	00000	321	MVC TEXT1(8),0(9) MOVE DDNAME INTO MESS.		00002280
000342	4190 C58B		0058B	322	LA 9,MESS3		00002290
000346	45A0 C384		00384	323	BAL 10,PUTL1 PRINT MESSAGE		00002300
00034A	47F6 0004		00004	324	B 4(6) RETURN FOR ERROR		00002310
00034E	45A0 C41E		0041E	325	FREE BAL 10,RESET18		00002320
000352				326	NOFREE EQU *		00002330
000352	4199 0008		00008	327	LA 9,8(9) GET ADR OF NEXT DDNAME		00002340
000356	4680 C310		00310	328	BCT 8,LFREE		00002350
00035A	07F6			329	BR 6		00002360
				330	*****L R		00002370
00035C				331	DAIR08 EQU *		00002380
00035C	4170 C710		00710	332	LA 7,DAP08		00002390
000360	5070 3010		00010	333	ST 7,DAPLDAPB		00002400

LOC	OBJECT	CODE	ADDR1	ADDR2	STMT	SOURCE STATEMENT	FO1MAY72	8/10/73
000364					334	DAIR EQU *		00002410
000364	D203	C788	C524	00788	00524	335 MVC EVENT(4),NULL		00002420
00036A	1813					336 LR 1,3		00002430
						337 LINK EP=IKJDAIR		00002440
000382	07FA					344 BR 10		00002450
						345 *****		00002460
000384						346 PUTL1 EQU *		00002470
000384	D218	C538	9000	00538	00000	347 MVC TEXT1+8(25),0(9)		00002480
00038A	4170	0025			00025	348 LA 7,37		00002490
00038E	4070	C52C			0052C	349 STH 7,TEXT		00002500
000392	47F0	C3AA			003AA	350 B PUTL		00002510
000396						351 PUTL2 EQU *		00002520
000396	D22B	C530	C680	00530	00680	352 MVC TEXT1(44),DSN1		00002530
00039C						353 PUTL21 EQU *		00002540
00039C	D218	C55C	9000	0055C	00000	354 MVC TEXT1+44(25),0(9)		00002550
0003A2	4170	0049			00049	355 LA 7,73		00002560
0003A6	4070	C52C			0052C	356 STH 7,TEXT		00002570
0003AA						357 PUTL EQU *		00002580
0003AA	D201	C52E	C524	0052E	00524	358 MVC TEXT+2(2),NULL		00002590
0003B0	5870	2004			00004	359 L 7,CPPLUPT		00002600
0003B4	5890	200C			0000C	360 L 9,CPPLECT		00002610
0003B8	D203	C788	C524	00788	00524	361 MVC EVENT(4),NULL		00002620
						362 PUTLINE PARM=PUTX,UPT=(7),ECT=(9),ECB=EVENT,MF=(E,I,OPL)		00002630
0003F2	07FA					376 BR 10		00002640
						377 *****		00002650
0003F4						378 RESET08 EQU *		00002660
0003F4	D205	C712	C524	00712	00524	379 MVC FLG08(6),NULL		00002670
0003FA	9240	C71C		0071C		380 MVI DD08,X'40' BLK DDNAME UNIT SERIAL NR.		00002680
0003FE	D216	C71D	C71C	0071D	0071C	381 MVC DD08+1(23),DD08		00002690
000404	D207	C734	C524	00734	00524	382 MVC BLK08(8),NULL ZERO BLKSIZE SPACE DIRECTORY		00002700
00040A	D207	C73C	C524	0073C	00524	383 MVC BLK08+8(8),NULL		00002710
000410	D200	C757	C524	00757	00524	384 MVC CTL08(1),NULL ZERO CTL		00002720
000416	D203	C758	C524	00758	00524	385 MVC FFLG08(4),NULL ZERO RESERVED,DSORG		00002730
00041C	07FA					386 BR 10		00002740
00041E						387 RESET18 EQU *		00002750
00041E	D203	C75E	C524	0075E	00524	388 MVC FLG18(4),NULL ZERO FLAG DARD		00002760
000424	D205	C762	C75E	00762	0075E	389 MVC FLG18+4(6),FLG18 ZERO CTCRC DSN POINTER		00002770
00042A	9240	C770		00770		390 MVI MB18,X'40' BLK MBER NAME SYSOUT		00002780
00042E	D208	C771	C770	00771	00770	391 MVC MB18+1(9),MB18		00002790
000434	D201	C77A	C524	0077A	00524	392 MVC STAT18(2),NULL ZERO DISP,CTRL		00002800
00043A	07FA					393 BR 10		00002810
						394 *****		00002820
00043C						395 ULINK EQU *		00002830
00043C	D207	C80C	C79C	0080C	0079C	396 MVC CSYSIN(8),SYSIN		00002840
000442	D207	C834	C78C	00834	0078C	397 MVC CSYSUT3(8),SYSUT3		00002850
000448	D207	C83C	C794	0083C	00794	398 MVC CSYSUT4(8),SYSUT4		00002860
00044E	D207	C814	C7AC	00814	007AC	399 MVC CPRINT(8),SYSPRINT		00002870
						400 STAX DEFER=YES DON'T ALLOW INTERRUPT		00002880
						412 LINK EP=IEBCOPY,PARAM=(OPTION,DDLIST),VL=1		00002890
000496	9101	C65C		0065C		426 TM OPLIST,X'01'		00002900
00049A	078A					427 BCR 8,10		00002910
00049C	4190	C638		00638		428 LA 9,MESS9		00002920
0004A0	12FF					429 LTR 15,15		00002930
0004A2	4780	C4AE		004AE		430 BZ MOVE		00002940
0004A6	45A0	C4E8		004E8		431 BAL 10,CODE		00002950
0004AA	47F0	C4B2		004B2		432 B MOVE1		00002960
0004AE						433 MOVE EQU *		00002970
0004AE	92F0	C64D		0064D		434 MVI MESS9+21,X'FO'		00002980
0004B2						435 MOVE1 EQU *		00002990
0004B2	D216	C530	9000	00530	00000	436 MVC TEXT1(23),0(9)		00003000



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000488	41A0 001B		0001B	437	LA 10,27		00003010
00048C	40A0 C52C		0052C	438	STH 10,TEXT		00003020
0004C0	45A0 C3AA		003AA	439	BAL 10,PUTL		00003030
0004C4	47F0 C274		00274	440	B RETURN1		00003040
				441	STAX DEFER=NO ALLOW I NTERRUPT		00003050
0004E6	07F1			453	BR 10		00003060
				454	*****		00003070
0004E8				455	CODE EQU *		00003080
0004E8	4EF0 C7C0		007C0	456	CVD 15,PACK		00003090
0004EC	9220 C7C9	007C9		457	MVI UNPK+1,X'20'		00003100
0004F0	D205 C7CA C7C9 007CA 007C9			458	MVC UNPK+2(6),UNPK+1		00003110
0004F6	DE07 C7C8 C7C4 007C8 007C4			459	ED UNPK(8),PACK+4		00003120
0004FC	D201 9015 C7CE 00015 007CE			460	MVC Z1(2,9),UNPK+6		00003130
000502	07FA			461	BR 10		00003140
				462	*****		00003150
				463	*****		00003160
				464	PUTX PUTLINE OUTPUT=(TEXT,,DATA),MF=L		00003170
000510	0000000000000000			471	IOPL DC 4F'0'		00003180
000520	FF000000			472	FF DC X'FF000000'		00003190
000524	0000000000000000			473	NULL DC 2F'0'		00003200
00052C	00000000			474	TEXT DC F'0'		00003210
000530	4040404040404040			475	TEXT1 DC CL80' '		00003220
000580	00000000			476	POANS DC F'0'		00003230
000584	00000000			477	VPARM DC V(PARM)		00003240
000588	00			478	POINTER DC X'00'		00003250
000589	C9D5E5C1D3C9C440			479	MESS1 DC CL25'INVALID DATA SET NAME'		00003260
0005A2	C1D3D3D6C3C1E3C5			480	MESS2 DC CL25'ALLOCATE ERROR'		00003270
0005BB	C6D9C5C540C5D9D9			481	MESS3 DC CL25'FREE ERROR'		00003280
0005D4	C4E2D6D9C740C9E2			482	MESS4 DC CL25'DSORG IS NOT PARTITIONED'		00003290
0005ED	D7C1D9C1D4C5E3C5			483	MESS5 DC CL25'PARAMETER ERROR'		00003300
000606	C1D3D9C5C1C4E840			484	MESS6 DC CL25'ALREADY IN USE'		00003310
00061F	E3C5D9D4C9D5C1D3			485	MESS8 DC CL25'TERMINAL ALL OC.ERROR'		00003320
000638	C9C5C2C3D6D7E840			486	MESS9 DC CL25'IEBCOPY RETURN CODE'		00003330
000651	00						
000652	0008			487	NULLFILE DC H'8'		00003340
000654	D5E4D3D3C6C9D3C5			488	DC CL8'NULLFILE'		00003350
00065C	00			489	OPLIST DC X'00'		00003360
00065D	000000						
000660	0000000000000000			490	SAVE DC 18F'0'		00003370
0006A8	D200 8000 A000 00000 00000			491	MOVEL MVC 0(0,8),0(10)		00003380
0006AE	0000			492	DSN DC H'0'		00003390
0006B0	4040404040404040			493	DSN1 DC CL44' '		00003400
0006DC	0010			494	TSODSN DC H'16'		00003410
0006DE	E3E2D6F7F4F94BC3			495	DC CL44'TS0749.COPY.DATA'		00003420
000001				496	OLD EQU X'01'		00003430
000004				497	NEW EQU X'04'		00003440
000008				498	SHR EQU X'08'		00003450
000020				499	PREFIX EQU X'20'		00003460
000080				500	TRK EQU X'80'		00003470
00070A	0808			501	KEEP DC X'0808'		00003480
00070C	0404			502	DEL DC X'0404'		00003490
000710				503	DS OF		00003500
000710	0008			504	DAP08 DC X'0008'		00003510
000712	000000000000			505	FLG08 DC 6X'00'		00003520
000718	00000000			506	ADSN08 DC F'0'		00003530
00071C	4040404040404040			507	DD08 DC CL8' '		00003540
000724	4040404040404040			508	UNIT08 DC CL8' '		00003550
00072C	4040404040404040			509	SET08 DC CL8' '		00003560
000734	00000000			510	BLK08 DC F'0'		00003570
000738	00000000			511	SPI DC F'0'		00003580

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00073C	00000000			512	SP2 DC F'0'		00003590
000740	00000000			513	DC F'0'		00003600
000744	4040404040404040			514	DC CL16'		00003610
000754	00			515	STAT08 DC X'00'		00003620
000755	00			516	DISP108 DC X'00'		00003630
000756	00			517	DISP208 DC X'00'		00003640
000757	00			518	CTL08 DC X'00'		00003650
000758	000000			519	FFLG08 DC 3X'00'		00003660
00075B	00			520	DDRG08 DC X'00'		00003670
00075C				521	DS OF		00003680
00075C	0018			522	DAP18 DC X'0018'		00003690
00075E	000000000000			523	FLG18 DC 6X'00'		00003700
000764	00000000			524	ADSN18 DC F'0'		00003710
000768	0000000000000000			525	DD18 DC 2F'0'		00003720
000770	4040404040404040			526	MB18 DC CL10'		00003730
000773	00			527	STAT18 DC X'00'		00003740
00077B	00			528	CTL18 DC X'00'		00003750
00077C	4040404040404040			529	DC 8C'		00003760
000784	00000788			530	AEVENT DC A(EVENT)		00003770
000788	00000000			531	EVENT DC F'0'		00003780
00078C	4040404040404040			532	SYSUT3 DC CL8'		00003790
000794	4040404040404040			533	SYSUT4 DC CL8'		00003800
00079C	4040404040404040			534	SYSIN DC CL8'		00003810
0007A4	C9D5D6E4E3404040			535	INOUT DC CL8'INOUT'		00003820
0007AC	4040404040404040			536	SYSPRINT DC CL8'		00003830
0007B4	E2E8E2C4C1404040			537	SYS DA DC CL8'SYS DA'		00003840
0007BC	00000000						
0007C0	0000000000000000			538	PACK DC D'0'		00003850
0007C8	4040404040404040			539	UNPK DC CL8'		00003860
0007D0	0008			540	UT3 DC H'8'		00003870
0007D2	50C3E2E8E2E4E3F3			541	DC C'&&CSYSUT3'		00003880
0007DA	0008			542	UT4 DC H'8'		00003890
0007DC	50C3E2E8E2E4E3F4			543	DC C'&&CSYSUT4'		00003900
0007E4				544	DS OF		00003910
0007E4	0000			545	DC H'0'		00003920
0007E6	0000			546	OPTION DC H'0'		00003930
0007E8	0000			547	DC H'0'		00003940
0007EA	0048			548	DDLIST DC H'72'		00003950
0007EC	0000000000000000			549	DC 8F'0'		00003960
00080C	4040404040404040			550	CSYSIN DC 8C'		00003970
000814	4040404040404040			551	CPRINT DC CL8'		00003980
00081C	0000000000000000			552	DC 2F'0'		00003990
000824	E2E8E2E4E3F14040			553	DC CL8'SYSUT1'		00004000
00082C	E2E8E2E4E3F24040			554	DC CL8'SYSUT2'		00004010
000834	4040404040404040			555	CSYSUT3 DC 8C'		00004020
00083C	4040404040404040			556	CSYSUT4 DC 8C'		00004030
				557	IKJDAPL		00004040
				571	IKJCPPL		00004050
				582	IKJPPPL		00004060
				597	END		00004070

RELOCATION DICTIONARY

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POS.ID	REL.ID	FLAGS	ADDRESS
01	01	0C	000068
01	01	0C	000370
01	01	0C	0003E0
01	01	0C	000478
01	01	08	00047D
01	01	0C	000484
01	01	0C	000508
01	01	0C	000784
01	03	1C	000584

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ADSN08	00004	000718	00506	0141 0171 0193 0218 0219 0219 0222 0238
ADSN18	00004	000764	00524	
AEVENT	00004	000784	00530	0088 0120
ALLOC	00004	0000EC	00140	0135
ATERM	00001	000242	00232	0224
BLK08	00004	000734	00510	0382 0383
CODE	00001	0004E8	00455	0153 0180 0205 0226 0300 0431
COMPRESS	00001	000000	00001	0009 0024 0037 0050 0059 0068 0077
CPPL	00001	000000	00576	0015
CPPLCBUF	00004	000000	00577	0089
CPPLECT	00004	00000C	00580	0087 0118 0360
CPPLPSCB	00004	000008	00579	0119
CPPLUPT	00004	000004	00578	0086 0117 0359
CPRINT	00008	000814	00551	0399
CSYSIN	00001	00080C	00550	0396
CSYSUT3	00001	000834	00555	0397
CSYSUT4	00001	00083C	00556	0398
CTL08	00001	000757	00518	0144 0197 0384
CTL18	00001	00077B	00528	
DAIR	00001	000364	00334	0314
DAIR08	00001	00035C	00331	0146 0174 0198 0221 0241
DAPL	00001	000000	00563	0116
DAPLDAPB	00004	000010	00569	0313 0333
DAPLECB	00004	000008	00567	0120
DAPLECT	00004	000004	00566	0118
DAPLPSCB	00004	00000C	00568	0119
DAPLUPT	00004	000000	00565	0117
DAP08	00002	000710	00504	0217 0332
DAP18	00002	00075C	00522	0312
DDL18	00002	0007EA	00548	0418
DD08	00008	00071C	00507	0145 0157 0175 0199 0242 0380 0381 0381
DD18	00004	000768	00525	0311
DEL	00002	00070C	00502	0196
DISP108	00001	000755	00516	0143 0173 0196 0240
DISP208	00001	000756	00517	
DORG08	00001	00075B	00520	0162
DSN	00002	0006AE	00492	0125 0140
DSNAM	00004	000008	00036	0030
DSNER	00004	000304	00304	0129 0131
DSN1	00044	0006B0	00493	0124 0352
DUMMY	00001	000246	00236	0214
ERROR	00001	0001D2	00202	0245
EVENT	00004	000788	00531	0335 0361 0366 0530
FF	00004	000520	00472	0105
FFLG08	00001	000758	00519	0385
FLG08	00001	000712	00505	0220 0379
FLG18	00001	00075E	00523	0388 0389 0389
FREE	00004	00034E	00325	0258 0316 0319
GDON	00001	0000B6	00121	
IHB0023	00004	00045C	00403	0401
IHB0025	00001	000478	00415	
IHB0025A	00001	000480	00419	0414
IHB0027	00004	0004D0	00444	0442
IKJ\$0002	00001	000883	00076	0018
IKJ\$0013	00002	0002B4	00275	0266
IKJ@0002	00001	000028	00074	0019
IKJ@0003	00001	00001B	00040	0020
IKJ@0004	00001	000863	00033	0032
IKJ@0005	00001	00086E	00046	0045
IKJ@0006	00001	000877	00057	0056

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
IKJ@0007	00001	000882	00066	0065
IKJ@0013	00002	00029C	00267	0274
IKJPARM	00001	000000	00022	0030 0035 0044 0048 0072 0074 0107
INOUT	00008	0007A4	00535	0145
T0PL	00004	000510	00471	0363
KEEP	00002	00070A	00501	0143 0173 0240
KEND0005	00001	00086E	00047	0043
KEWI	00002	000020	00049	0044 0132
KEYW0005	00001	000863	00041	0043
LFREE	00001	000310	00308	0254 0328
LINK	00001	000270	00248	0233
MB18	00010	000770	00526	0390 0391 0391
MESS1	00025	000589	00479	0304
MESS2	00025	0005A2	00480	0152 0179 0204
MESS3	00025	0005BB	00481	0322
MESS4	00025	0005D4	00482	0164
MESS5	00025	0005ED	00483	0299 0301
MESS6	00025	000606	00484	0158
MESS8	00025	00061F	00485	0225 0227
MESS9	00025	000638	00486	0428 0434
MOVE	00001	0004AE	00433	0430
MOVE1	00006	0006A8	00491	0127
MOVE1	00001	0004B2	00435	0432
NAME0006	00001	00086E	00053	0055
NAME0007	00001	000877	00062	0064
NEND0006	00001	000877	00058	0055
NEND0007	00001	000882	00067	0064
NEW	00001	000004	00497	0195
NOFREE	00001	000352	00326	0310
NOFR1	00001	0002C8	00283	0277
NOFR2	00001	0002DC	00291	0285
NULL	00004	000524	00473	0092 0220 0335 0358 0361 0379 0382 0383 0384 0385 0388 0392
NULL FILE	00002	000652	00487	0237
OK	00001	00013E	00161	0148
OKK	00004	000152	00167	0163
OK1	00004	00018E	00183	0177
OK2	00004	0001E8	00208	0201
OK3	00004	00026C	00246	0244
OLD	00001	000001	00496	0142 0239
OPLIST	00001	00065C	00489	0136 0213 0426
OPTION	00002	0007E6	00546	0416
PACK	00008	0007C0	00538	0456 0459
PARM	00001	000848	00017	0018 0021 0026 0039 0040 0052 0061 0070 0075
PARSER	00004	0002E6	00297	0106
PEND0004	00001	000863	00034	0029
PDANS	00004	000580	00476	0092 0093 0261
POINTER	00001	000588	00478	0082 0114 0276 0284
POST0004	00001	00084E	00027	0029
PPL	00001	000000	00583	0084
PPLANS	00004	000010	00593	0094 0103
PPLCBUF	00004	000014	00594	0089
PPL ECB	00004	000008	00591	0088
PPL ECT	00004	000004	00590	0087
PPL PCL	00004	00000C	00592	0091
PPLUPT	00004	000000	00589	0086
PPLUWA	00004	000018	00595	
PREFIX	00001	000020	00499	0144
PUTL	00001	0003AA	00357	0230 0302 0350 0439
PUTL1	00001	000384	00346	0159 0323
PUTL2	00001	000396	00351	0154 0165 0305

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
PUTL 21	00001	00039C	00353	0181 0206
PUTX	00001	000504	00466	0368
RESET08	00001	0003F4	00378	0167 0183 0208 0246
RESET18	00001	00041E	00387	0325
RETURN	00001	00028A	00260	0160 0255 0303 0306
RETURN1	00001	000274	00251	0155 0166 0182 0207 0231 0440
SAVE	00004	000660	00490	0010 0292
SET08	00008	00072C	00509	
SHR	00001	000008	00498	0172
SP1	00004	000738	00511	0191
SP2	00004	00073C	00512	0192
STAT08	00001	000754	00515	0142 0172 0195 0239
STAT18	00001	00077A	00527	0392
SYSDA	00008	000784	00537	0194
SYSIN	00008	00079C	00534	0175 0396
SYSPRINT	00008	0007AC	00536	0222 0242 0399
SYSUT3	00008	00078C	00532	0186 0253 0397
SYSUT4	00008	000794	00533	0398
TERM	00001	000200	00216	
TEXT	00004	00052C	00474	0229 0298 0349 0356 0358 0438 0469
TEXT1	00080	000530	00475	0157 0178 0203 0227 0301 0321 0347 0352 0354 0436
TRK	00001	000080	00500	0197
TSODSN	00002	0006DC	00494	0170 0178
UALLDC	00001	00019E	00189	0211
ULINK	00001	00043C	00395	0249
UNIT08	00008	000724	00508	0194
UNPK	00008	0007C8	00539	0457 0458 0458 0459 0460
USED	00001	00012C	00156	0151
UT 3	00002	0007D0	00540	0188
UT 4	00002	0007DA	00542	
VPARM	00004	000584	00477	0090

NO STATEMENTS FLAGGED IN THIS ASSEMBLY  
 \*STATISTICS\* SOURCE RECORDS (SYSIN) = 407 SOURCE RECORDS (SYSLIB) = 2576  
 \*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, NOTEST, ALGN, OS, NOTERM, LINECNT = 60  
 602 PRINTED LINES