AUTOMON/LOG ANALYZER BATCH

User's Guide

Publication Number

GP68-0420-1

WORLD HEADQUARTERS
UNICOM Systems, Inc.
1032 Cove Way
Beverly Hills, CA 90210
(818) 505-9601

MISSION HILLS DIVISION
UNICOM Systems, Inc.
15535 San Fernando Mission Blvd.
Mission Hills, CA 91606, U.S.A.
(818) 838-0606 Fax:(818)838-0776

FAREAST DIVISION
UNICOM Systems Korea
Hawangshimnidong 301 102
Sungdong-ku, Seoul, Korea
(02) 296-5476

Second Edition: October 8, 2002

The information in this documentation applies to Version 4 Release 2 Modification 0 of the program product AUTOMON/LA/BATCH for MVS/SP, MVS/XA, MVS/ESA and OS/390.
(AUTOMON/LA/BATCH V420).

Information in this publication is subject to change. Changes will be published in new editions or technical newsletters.

Preface

This manual contains a description of the AUTOMON/LA/BATCH Version 4 Release 2 Modification 0. It provides information necessary to install AUTOMON/LA/BATCH, maintenance and use of the product and is intended primarily for the person responsible for installing, maintaining and using AUTOMON/LA/BATCH. General audience for this manual are the system manager, systems programmer, programmer analyst and system operator.

This manual contains six chapters and three appendices:

Chapter 1 Introduction

This chapter provides a general description of the AUTOMON/LA/BATCH architecture and key functions.

Chapter 2 Transaction Abends

This chapter describes the operation and control of the AUTOMON/LA/BATCH transaction reporting facility. It discusses the options available to the user to produce different transaction abend reports.

Chapter 3 Storage Violations/System Crashes

This chapter describes the operation and control of the AUTOMON/LA/BATCH storage violation and system abend reporting facility. It discusses the options available to the user to produce different storage violation and system crash reports.

Chapter 4 Message Analysis

This chapter describes the operation and control of the AUTOMON/LA/BATCH message analysis reporting facility. It discusses the options available to the user to produce different message analysis reports.

Chapter 5 Performance Data Analysis

This chapter describes the operation and control of the AUTOMON/LA/BATCH performance data analysis reporting facility. It discusses the options available to the user to produce different performance analysis reports.

Chapter 6 AUTOMON/LA Messages

This chapter describes the AUTOMON/LA/BATCH messages. Each message has an explanation, system action and user response.

Chapter 7 Installation Considerations

This chapter details the hardware and software requirements for AUTOMON/CICS Log Analyzer.

The appendices contains the default values for each of the AUTOMON/LA/BATCH utilities. The contents of the AUTOMON/LA/BATCH INSTLIB is included in the second appendix. Sample JCL's are included in the third appendix.

An index allows you to quickly locate answers to specific questions.

AUTOMON/LA/BATCH User's Guide

Table of Contents

Figures

Chapter 1. Introduction

This Chapter Describes:

What is AUTOMON/LA/BATCH ?

What Does AUTOMON/LA/BATCH Do ?

Why Would You Need AUTOMON/LA/BATCH ?

Product Overview

Functions and Capabilities

1.0. What is AUTOMON/LA/BATCH ?

"*AUTOMON/LA*", which stands for AUTOMON Log Analyzer, works in conjunction and as an enhancement to AUTOMON/CICS. Experienced AUTOMON users are aware of the valuable information written to the history log. Diagnosis of this log on a regular basis proves to be a valuable aid to both problem determination and performance tuning. AUTOMON/LA/BATCH takes the information provided by AUTOMON and produces a clear easy to read report of the problems encountered within your system. The report may be distributed to both system and application programmers to speed problem determination and rectification.

Features of AUTOMON/LA/BATCH

Components

It consists of four major components:

- System Abend and Storage Violation Analysis
- Transaction Abend Analysis
- Message Description and Analysis.
- Performance Data Analysis

Features

Some of AUTOMON/LA/BATCH's features include reporting and detailed analysis of all Storage Violations/System Abends occurring within the system. A diagnosis of all transaction abends occurring within the system. A complete description of all messages produced by AUTOMON\CICS as well as analysis of the system condition causing these messages to be generated. All functions produce both a detail and summary report and have a complete sort and search capabilities allowing the user to obtain reports for specific conditions occurring within their system.

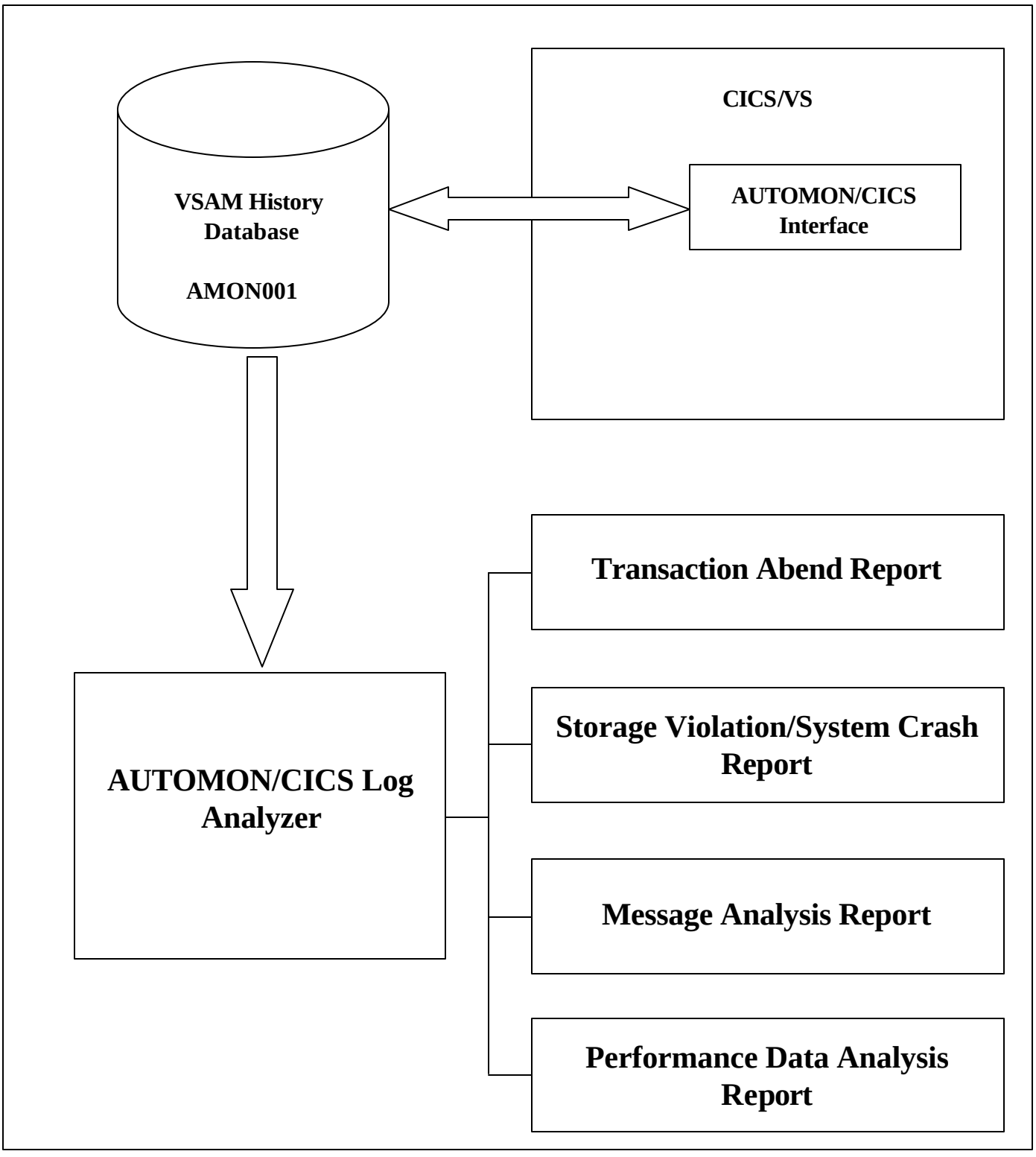


Figure 1-1. AUTOMON/CICS Log Analyzer Overview

1.1. Why Do You Need AUTOMON/LA/BATCH ?

AUTOMON/LA/BATCH boosts confidence and productivity by helping data center personnel find swift solutions to availability problems. It conserves your most precious commodity time. Cutbacks have been made throughout the industry and many facilities now have fewer individuals to diagnose and correct the same amount of problems occurring within the system. These people need tools to increase their efficiency and speed the corrective process. AUTOMON/LA provides a means to quickly compile information useful for both problem determination and performance tuning. Statistical analysis provided in the synopsis reports gives the frequency that these problems occur. Higher priority may then be given to the problems which will yield the best returns in system performance.

Availability Issues

System Availability

In today's data processing environments, the high availability of production CICS systems is more critical than ever before. In the data processing marketplace, there is a proliferation of products which will monitor CICS systems and, will inform the systems programmer of currently occurring problems (unfortunately, in some cases, the System is contaminated beyond repair such as a major storage violation problem or maybe an SOS dead-lock condition, etc.). It is the responsibility of the Systems Programmer to find the right solution to these problems in a timely manner or, the problem might surface again and again. AUTOMON/LA allows the user to compile historical reports showing the problems of the past. It provides suggestions and insight into these problems allowing the user to adjust system parameters so that stress conditions are handled without noticeable system degradation. Companies who require a highly available CICS on-line system, have come to realize that more than just a performance monitor is needed to maintain their systems, many have realized they need AUTOMON/LA/BATCH.

Automation

In today's Data Processing environments, AUTOMATION is primary on the minds of various Data Processing Personnel. Companies have taken the position that not only is it not possible to have technical staff on-site 24-hours a day, 365 -days per year. Instead they have put their confidence in their staff as well as Software Tools to take them to an AUTOMATED solution. While AUTOMON/CICS is able to keep the system available to the user, it is not able to provide a permanent solution to the problems that it averts. Finding permanent solutions is still a time consuming process. AUTOMON/LA can dramatically reduce the many hours dedicated to problem rectification by providing the user with both statistical analysis and insightful information pertaining to the problems recorded in the AUTOMON/CICS history database.

Artificial Intelligence

CICS on-line system availability can be directly translated to dollars. Unscheduled "*down time*" or slow "*response time*" can cause lost customers, departmental inefficiency, lost orders, scheduling problems and overall inefficiency. Once CICS problems are encountered, those responsible for its availability and performance need to find permanent solutions to these problems quickly. Whether you have a large or small scale on-line system, AUTOMON/LA/BATCH's analysis aids in providing immediate solutions in many aspects of CICS. These solutions allow you to operate your CICS system with minimum down time and maximum throughput. This results in a smoothly operating on-line environment and most of all satisfied end users. Easy to read reports allow your system programmers to remedy the detected problems quickly and easily. The prime concern of AUTOMON/LA/BATCH is to save time in problem determination, while at the same time reducing system programmer load and easing change control.

1.2. What Does AUTOMON/LA/BATCH Do ?

The AUTOMON/CICS history database contains a compilation of all system conditions occurring outside of user specified threshold values. The messages written to this database provide information pertaining to many exceptional and degredational conditions occurring within the system. In addition, all transaction abends, storage violations and system crash conditions are recorded in this VSAM file. The data within the history database is an invaluable aid to problem determination and performance tuning. A regular review of the history database file can help the system programmer to maintain optimal performance from all CICS regions. However, the sheer volume of information provided can sometimes make the evaluation of this important data a time consuming process. That is why AUTOMON/LA was developed.

AUTOMON/LA/BATCH allows the system programmer to compile this vast array of data into a number of report formats, allowing for a statistical review of all abnormal conditions occurring within your system. AUTOMON/LA/BATCH prepares and prints reports offline using the AUTOMON/CICS messages recorded in the history database (AMON001) as input. Four separate batch jobs will produce reports for the following:

- Storage Violations and System Crash Conditions
- Transaction Abends
- AUTOMON/CICS message analysis
- Performance data analysis

System Analysis

Storage Violations and System Crashes

Each occurrence of a storage violation or system crash condition captured by AUTOMON/CICS will be analyzed. The Detail report will display the messages produced by AUTOMON along with an explanation of the system conditions causing these messages to be generated. Each of the eight AUTOMON system recovery stages is explained in detail and a diagnosis of the key data produced by AUTOMON/CICS is provided. In the case of a storage violation, the data around the SAA/Storage Check Zone header and trailer is also displayed. This information is often a valuable aid in determining the cause of the storage violation. The Summary report displays for each storage violation an assigned sequence number, the page number of the storage violation in the detail report(if both detail and summary are chosen), the VTAM application identification, the date and time on which the incident occurred, the transaction and program involved, the terminal identification, abend code, and task number.

The user has the option of producing the summary report, detail report or both reports. It is recommended that the summary report be run first. After the summary report has been analyzed more information may be obtained on particular situations by running the detail report using the full range of sort and search capabilities provided by AUTOMON/LA. The user may selectively display events by VTAM application id, transaction id, program name, and terminal id. A date and time range may also be specified by the user to produce reports for specific time periods. The number of records processed as well as a number of records to skip may also be designated by the user.

Transaction Abends

A transaction abend code is a four character alphanumeric code. All CICS transactions begin with the letter "A" followed by a two character code to identify the module that detected the error. This code and the final one character alphanumeric code identifying the specific error is assigned by CICS. Most transaction abends result in a CICS transaction dump which is provided at abnormal termination of the task. Transaction dumps cause additional overhead to the system while they are written. AUTOMON/LA is designed to provide the
information necessary to reduce this overhead to your system.

AUTOMON/LA provides for both a detail and a summary report of all transaction abends occurring within your system. The Detail report contains all the messages associated with a particular transaction abend. AUTOMON/LA will then provide an explanation of the events leading to and following these messages. The system action that has been taken by CICS will be given and recommendations for the response by the user, console or terminal operator are included. Additionally the module that detected the error condition will be reported. A diagnosis of the key data reported by AUTOMON/CICS is also incorporated into this report. The Summary report displays for each transaction abend an assigned sequence number, the page number of the transaction abend in the detail report(if both detail and summary are chosen), the VTAM application identification, the date and time on which the incident occurred, the transaction and program involved, the terminal identification, abend code, the offset at the time of abnormal termination, the PSW and the reason code for the abend. If the synopsis option (default) is specified only the first occurrence of abend with matching applids, transaction ids, abend codes and offsets will be reported and a total count of duplicate transaction abends will be listed with the first occurrence of the abend.

The user has the option of producing the summary report, detail report or both reports. It is recommended that the summary report be run first. After the summary report has been analyzed more information may be obtained on particular situations by running the detail report using the full range of sort and search capabilities provided by AUTOMON/LA. The user may selectively display events by VTAM application id, abend code, transaction id, program name, and terminal id. A date and time range may also be specified by the user to produce reports for specified periods. The number of records processed as well as a number of records to skip may also designated by the user.

Message Analysis

AUTOMON/CICS reports many conditions which have a degradational effect to your system to the history database AMON001. Examples of these types of messages inform the user of short on storage conditions, looping conditions, excessive storage usage by a transaction, high levels of DSA subpool usage, VSAM string waits, VTAM terminal pending conditions etc. In the detail report AUTOMON/LA will determine the system conditions causing these messages to be produced and report them to you. Where applicable AUTOMON/LA will show AUTOMON/CICS threshold and table values which affect the generation of these messages. This can aid the system programmer in customizing AUTOMON to a particular environment. A diagnosis of the key data

reported by AUTOMON/CICS is also incorporated into this report. The Summary report displays for each transaction abend an assigned sequence number, the page number of the transaction abend in the detail report(if both detail and summary are chosen), the VTAM application identification, the date and time of the message as well as the message information is reported. If the synopsis option (default) is specified only the first occurrence of a message with matching applids and message number will be reported and a total count of duplicate messages will be listed with the first occurrence of the message.

The user has the option of producing the summary report, detail report or both reports. It is recommended that the summary report be run first. After the summary report has been analyzed more information may be obtained on particular messages by running the detail report using the full range of sort and search capabilities provided by AUTOMON/LA. The user may selectively display messages by VTAM application id and message number. A date and time range may also be specified by the user to produce reports for specified periods. The number of records processed as well as a number of records to skip may also designated by the user.

1.3. Functions and Capabilities

Key Features

Major Functions

AUTOMON/LA/BATCH provides the following major functions

- Analyzes the AUTOMON/CICS history database (AMON001)
- Generates reports containing conclusions drawn from this analysis
- Detail and/or Summary reports for each of the following four areas:

  Storage Violations/System Crash Conditions
  Transaction Abends
  AUTOMON/CICS messages
  Performance Data

- Synopsis report listing only the first occurrence of duplicate events When this option is specified the summary report contains the number of duplicate occurrences. This option is available for transaction abends and AUTOMON/CICS messages.
- Inclusion feature allows for events to be reported only if they meet user specified criteria. (ECG. VTAM applid, tranid etc)
- Time and date range may be specified for reporting.
- Explains system conditions causing the generation of AUTOMON messages
- Explains AUTOMON parameters affecting the generation of these messages

1.4. Related Publications

AUTOMON/LA/BATCH Related Publications.

Publications

AUTOMON/CICS related publications are listed in figure 1-2.

ORDER NO.	TITLE
GP38-0420-1	AUTOMON/CICS User's Guide
GP39-0420-1	UNIMON/CICS User's Guide
GP38-0420-2	AUTOMON/CICS General Information
GB38-0420-1	Artificial Intelligence: AUTOMON/CICS
GM38-0420-3	AUTOMON/CICS Overview

Figure 1-2. AUTOMON/CICS Log Analyzer Related Publications.

(End of Section)

Chapter 2. Transaction Abends

This Chapter Describes:

Input File

Output Report Format

JCL for Batch Report

Batch Utility Command Language Format

Detail Report

Summary Report

2.1. Batch Utility

This chapter introduces the functions of AUTOMON/LA batch utility for transaction abends. It lists the AUTOMON/LA detail and summary output reports for transaction abends and tells you how to select certain type of records.

2.2. Input

AUTOMON/LA batch utility uses AUTOMON/CICS history database (AMON001) as an input. The AMON001 is a standard KSDS VSAM file, and it is sharable with CICS/VS systems. (You do not need to close or deallocate the file).

2.3. Output

The AUTOMON/LA report for transaction abends consists of two parts: a detail and a summary section. The detail section contains information from all data records pertaining to transaction abends that AUTOMON/CICS has collected. The summary section provides a sum of the selected transaction abends.

- Detail report
- Summary report

2.4. JCL For the Transaction Abend Report

Figure 2-1 is a sample of the job stream that must be submitted to request reports from AUTOMON/LA transaction abend utility. The job stream to generate batch reports must meet the following requirements:

- The first STEPLIB must point the AUTOMON/CICS loadlib.
- The second STEPLIB must point the AUTOMON/LA/BATCH loadlib.
- SYSPRINT must exist and should be checked for AUTOMON/LA/BATCH and operating error messages.
- SYSOUT must exist.
- SYSDET and SYSSUM MUST EXIST.
- AMON001 must exist and should point AUTOMON.SYS001 history database.
- AMON003 must exist and should point UNICOM/CENTRAL security database file (AMON501).
- UMON001 must exist and should point UNIMON.SYS001 system file.
- DFHCMACD must exist and should point CICSvvv.DFHCMACD CICS message file where "vvv" represents the appropriate CICS release. (eg. CICS330.DFHCMACD)
- The SYSIN DD statement points to the AUTOMON/LA batch utility commands and keyword that specify the reports you want to produce. In the first job step (CSHLIST) , Detail(yes) must be specified as a SYSIN parameter.
- You should follow your system naming conventions and replace UNIT=uuuu with DASD devices at your installation.
- You should replace VOL=SER=vvvvvv with a suitable volume serial number.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//*
    //STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
    //AMON001    DD        DISP=SHR,DSN=CICS311.AUTOMON.SYS001
    //UMON001    DD         DISP=SHR,DSN=CICS311.UNIMON.SYS001
    //SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//              SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
 APPLID(*), -                   APPLICATION ID(S).......UP TO 8
 DETAIL(YES), -                 PRINT DETAIL REPORT......YES|NO
 SUMMARY(NO), -                 PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -   FROM......(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -     TO........(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999), -              MAX RECORD SELECTIONS.0-9999999
 SKIP(0)                        BYPASS................0-9999999
 SCAN(FORWARD)                 DIRECTION....(FORWARD]BACKWARD)
/*
//*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//SORTWK01 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//              SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
//SYSOUT   DD    SYSOUT=*
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
/*
```

Figure 2-1. Sample Report Generation JCL for Transaction Abends.

```
//*************************************************************
//*+=========================================================+*
//*|     PRINT AUTOMON/LA/BATCH TRANSACTION ABEND REPORT     |*
//*+=========================================================+*
//*************************************************************
//REPORT   EXEC  PGM=CSH68TA,REGION=40M,COND=(4,LT)
//*
//STEPLIB  DD    DISP=SHR,DSN=UNICOM.AMONLA.V420.LOADLIB
//AMON002  DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR.DSN=UNICOM.CENTRAL.AMON501
//DFHCMACD DD    DISP=SHR,DSN=CICSvvv.DFHCMACD
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD    *
 WTO(YES), -                      WRITE TO OPERATOR MSG....YES|NO
 COMPANY(YOUR COMPANY NAME), -    YOUR COMPANY NAME......UP TO 42
 APPLID(*), -                     APPLICATION ID(S).......UP TO 8
 TRAN(*), -                       TRANSACTION ID(S)......UP TO 12
 TERM(*), -                       TERMINAL ID(S).........UP TO 12
 ABCD (*), -                      ABEND CODE(S)..........UP TO 12
 PGM(*), -                        PROGRAM NAME(S).........UP TO 8
 SYNOPSIS(YES), -                  PRINT SYNOPSIS REPORT....YES|NO
 DETAIL(YES), -                   PRINT DETAIL REPORT......YES|NO
 SUMMARY(YES), -                  PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -     FROM......(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -       TO........(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999), -                MAX RECORD SELECTIONS.0-9999999
 SKIP(0)                          BYPASS.................0-9999999
/*
```

Figure 2-1. Sample Report Generation JCL for Transaction Abends. cont

2.5. Batch Utility Command Language Format

With AUTOMON/LA/BATCH transaction abend utility, control statements created from a command language are used to request the various reports. This command language format is shown in figure 2-2.

BLANK	COMMAND	OPERANDS	COMMENTS
blank	command name	one or more operands	comments

Figure 2-2. The Command Language Format.

Command Format

The general format of the command to produce a AUTOMON/CICS batch report is:

Keyword(subkeyword)

Where keyword is the keyword parameter for the report being requested.

To request selective application report, use the keyword APPLID and a subkeyword to specify the application ID. The general format of the command is:

APPLID(subkeyword)

Where subkeyword is the application ID.

AUTOMON/L batch utility commands are read in from the data set pointed to by the SYSIN DD statement in your job stream. A single command can contain a maximum of one line.

2.5.1. Batch Utility Commands

The keyword used for the tailoring are as follows:

Batch Commands

ABCD

Transaction Abend Code.
Value : One to twelve transaction abend codes.
Example: ABCD (AEY9,UAMD) - select abend codes AEY9 and UAMD
Default: *

EABCD

To exclude a transaction abend, proceed the statement with an E.
Example: EABCD(AEY9,UAMD) - selected abend codes AEY9 and UAMD will be excluded from the report.

NOTE: ABCD and EABCD are mutually exclusive parameters.

APPLID

VTAM application identification.
Value : One to eight VTAM APPLIDs or * - all
Example: APPLID (CICSTOR,AOR1) - select CICSTOR and AOR1
Default: *

EAPPLID

To exclude a certain APPLID (s), proceed the statement with an E.
Example: EAPPLID(CICSTOR,AOR1) - selected applids CICSTOR and AOR1 will be excluded from the report, however this is not available for job step (CSHLIST).

NOTE: APPLID and EAPPLID are mutually exclusive parameters.

COMPANY

Your company name for the report heading.
Value : up to 42 Characters
Example: COMPANY(ABC COMPANY)

COUNT

Used to specify the maximum line count.
Value : 0 to 9999999
Example: COUNT(2000)
Default: 9999999

DETAIL

Print detail report.
Value : YES or NO
Example: DETAIL(YES)
Default: YES

FROM

Used to specify the start of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies a start time. Only data collected after this start time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: FROM(1994/01/01,05:00:00)
Default: 0000/01/01,00:00:00

PGM

Program names to be reported on.
Value : One to eight program names or * - all
Example: PGM(DFHEMTP,CCASDCTL) - select DFHEMTP and CCASDCTL
Default: *

EPGM

To exclude a certain program(s),proceed the statement with an E.
Example: EPGM(DFHEMTP,CCASDCTL) - selected programs DFHEMTP and CCASDCTL will be excluded from the report.
Default: *

NOTE: PGM and EPGM are mutually exclusive parameters.

PAGESIZE

Used to specify the number of data lines per page.
Value : 0 - 9999999
If 0 is specified for this parameter then no report header will be written.
Example: PAGESIZE(57), - 57 data lines per page
Default: 52

SKIP

Used to specify the number of records to be bypassed.
Value : 0 to 9999999
Example: SKIP(2000)
Default: 0

SUMMARY

Print summary report.
Value : YES or NO
Example: SUMMARY(YES)
Default: YES

SYNOPSIS

Print synopsis report. Only the first occurrence of identical transaction abends will be processed in the detail report. The summary report will include a field for the number of identical occurrences of a particular transaction abend. In order to be considered an identical transaction abend the transaction id, program name, abend code and offset must match. If NO is specified all occurrences of a transaction abends will appear in the detail report. In the summary report all occurrences of transaction abends will be reported and the total field will be blank.
Value : YES or NO
Example: SYNOPSIS(YES)
Default: YES

TERM

Terminal Identification
Value : One to twelve terminal ids.
Example: TERM(TV01,TV05) - select terminal id TV01 and TV05
Default: *

ETERM

To exclude a certain terminal(s), proceed the statement with an E.
Example: ETERM(TV01,TV05) - selected terminals TV01 and TV05 will be excluded from the report.

NOTE: TERM and ETERM are mutually exclusive parameters.

TO

Used to specify the end of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies an end time. Only data collected before this end time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: TO(1994/01/01,20:00:00)
Default: 2099/12/31,23:59:59

TRAN

Transaction Identification
Value : One to twelve transaction ids.
Example: TRAN(CEMT,DYNT) - select transaction ids CEMT and DYNT
Default: *

ETRAN

To exclude a certain transaction(s), proceed the statement with an E.
Example: ETRAN(CEMT,DYNT) - selected transactions CEMT and DYNT will be excluded from the report.

NOTE: TRAN and ETRAN are mutually exclusive parameters.

WTO

The selected keyword will be logged to the system console
Value : YES or NO
Example: WTO(YES)
Default: YES

2.6. Detail Report

```
                AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
-------------------------------------------------------------------------------------------------------------------
(DATE=1994/07/03,JDATE=1994/185)     AUTOMON/CICS LOG ANALYZER DETAIL REPORT                    PAGE= 36
(CPUID=00174234)                            (UNICOM Systems, Inc.)                           (MODEL=3090)
                           (REPORTING PERIOD=1994/07/02,06:01:52-1994/07/03,18:33:26)
-------------------------------------------------------------------------------------------------------------------
SEQUENCE NUMBER P3800031
    TESTCICS/DYNT TRANSACTION ABEND

    AUTOMON/CICS MESSAGES

        CSH6205I-TASK ABENDED.  TRAN=DYNT,PGM=CATODSP,TERM=L382,ABCD=ATNI
        CSH6206I-PSW=00000000,ENTRY=00AE7008,OFFSET=+0000,LAN=ASSMBLER
        CSH6207I-OBJ=.....................,RC=ABNORMAL CONDITION
        CSH6016W-(0-5) 00000000 00A34880 C1D2C3E3 00683614 006FE000 00A34880
        CSH6016W-(6-B) 00558BC0 006FF5E8 00A34800 00AE7008 006A8084 005400A8
        CSH6016W-(C-F) 00420400 00540100 00842720 00067008

    DESCRIPTION

        EXPLANATION:  THERE ARE TWO FORMS OF THIS ABEND:
        VTAM FORM
        THE NODE ERROR PROGRAM (NEP) OR NACP DECIDES THE TASK SHOULD BE  ABNORMALLY
        TERMINATED.  DFHZNAC INFORMS THE REQUEST MODULE TO ABEND THE TRANSACTION
        AFTER THE TC UNIT HAS COMPLETED.
        SYSTEM ACTION:  THE TASK IS ABNORMALLY TERMINATED WITH A CICS TRANSACTION
        DUMP
        USER RESPONSE:  THIS USUALLY OCCURS WHEN, DUE TO A HARDWARE FAILURE, A
        NETWORK DEVICE REJECTS THE DATA STREAM SENT TO IT.  THE DEVICE ITSELF MAY
        MAY INDICATE AN ERROR CODE THAT WILL GIVE A SPECIFIC REASON FOR THE REJECTION.
        CHECK THE CSMT LOG FOR FURTHER INFORMATION.
        THIS ABEND CAN ALSO RESULT FROM AN ERROR IN A CONNECTED SYSTEM SUCH AS A
        MIRROR TRANSACTION ABEND.  FOR THE NEP (VTAM) FORM, RUN A VTAM TRACE
        TYPE=BUF FOR THE LOGICAL UNIT AND REPEAT THE ERROR.
        FOR THE TEP (NON-VTAM) FORM, RUN A LINK TRACE FOR THE LINE OR LOCAL CHANNEL
        ADDRESS FOR THE DEVICE.  EXAMINE THE DATA STREAM AND ERROR RESPONSE TO
        DETERMINE THE CAUSE OF THE ERROR.
        THIS TYPE OF ERROR WILL OCCUR IF THE DEFINITIONS IN THE TCT DO NOT MATCH
        THE ATTRIBUTES OF THE ACTUAL DEVICE.
        MODULE:  DFHZARL,DFHZARM,DFHZARQ,DFHZRAQ,DFHZSUP

    DIAGNOSIS

        APPLID:                 TESTCICS
        DATE:                   1994/07/03
        TIME:                   15:19:30
        TERMINAL:               L382
        TRANSACTION:  DYNT
        ABEND CODE:   AKCT
        PROGRAM:                CATODSP
        LANGUAGE:               ASSEMBLER
        FAILING LOCATION:       OFFSET=+0000
```

Figure 2-3. Transaction Abend Detail Report.

The following is a description of each field in the detail report:

SEQUENCE #

AUTOMON/LA assigned sequence number.

PAGE TITLE

The page title contains the application identification and the transaction identification and identifies this as a transaction abend.

AUTOMON/CICS MESSAGES

All AUTOMON/CICS messages associated with this transaction abend will be listed.

DESCRIPTION

AUTOMON/LA will give the following information for each transaction abend.

- An explanation of the events causing these AUTOMON/CICS messages to be generated.
- The system action taken by CICS will be given.
- Recommendations for the user response.
- The name of the CICS module that caused the abend code to be generated.

DIAGNOSIS

AUTOMON/LA will give the following information for each transaction abend.

- APPLID - VTAM application identification.
- DATE - Date of this particular transaction abend. Format yyyy/mm/dd.
- TIME - Time of this particular transaction abend. Format hh:mm:ss.
- TERMINAL - Terminal identification.
- TRANSACTION - CICS transaction identification.
- ABEND CODE – CICS/USER transaction abend code.
- PROGRAM – CICS program identification.
- LANGUAGE – anguage in which the program is written.
- REASON CODE – Program interruption code.
- FAILING LOCATION – Offset at the time of the abend.

2.7. Summary Report

```
                AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
-------------------------------------------------------------------------------------------------------------
(DATE=1994/07/03,JDATE=1994/185)     AUTOMON/CICS LOG ANALYZER SUMMARY REPORT                    PAGE= 36
(CPUID=00174234)                            (UNICOM Systems, Inc.)                          (MODEL=3090)
                          (REPORTING PERIOD=1994/07/02,06:01:52-1994/07/03,18:33:26)
SEQ #    PAGE #  APPLID     DATE      TIME   TRAN PROGRAM  TERM ABCD OFSET   LANG     REASON CODE   TOTAL #
-------------------------------------------------------------------------------------------------------------
P3800001       1 CICSTOR1 1994/07/02 06:01:52 MAST MAFI030  TN96 ATNI +0000 ASSMBLER 0C1-OPATION EXC      4
P3800002       2 CICSTOR1 1994/07/02 06:15:26 BUPL HBUPLOD  TN96 AICA +0000 ASSMBLER ABNORMAL COND.       2
P3800003       3 CICSPROD 1994/07/02 06:26:22 PGL1 DFHEDFX  ACP2 AED3 +3E4F COBOL    ABNORMAL COND.      17
P3800004       4 CICSPROD 1994/07/02 06:33:26 P820 PPA8200  AJHO AEI9 +2B87 COBOL    ABNORMAL COND.      22
P3800005       5 CICSTEST 1994/07/02 07:21:16 P599 PPA5990  AID1 UAMB +0000 ASSMBLER ABNORMAL COND.       5
P3800006       6 CICSTOR1 1994/07/02 07:55:07 MAST MAFI030  TN96 ASRA +2E5B ASSMBLER 0C7-DATA EXC         2
P3800007       7 CICSPROD 1994/07/02 08:13:12 SMS  WI6000X  ABJ0 AEI1 +9138 COBOL    ABNORMAL COND.      12
P3800008       9 CICSPROD 1994/07/02 08:33:26 STLM UTL4200  AC33 AEY9 +0000 ASSMBLER ABNORMAL COND.       3
P3800009      11 CICSTOR1 1994/07/02 08:41:37 MAST MAFI030  TN96 ATCV +0000 ASSMBLER ABNORMAL COND.       5
P3800010      12 CICSTOR1 1994/07/02 09:15:26 MAPT MAPTST   ACP2 APCT +28C6 ASSMBLER ABNORMAL COND.      11
P3800011      13 CICSPROD 1994/07/02 09:28:32 P599 PPA5990  AID1 AEIM +0000 ASSMBLER ABNORMAL COND.      18
P3800012      14 CICSPROD 1994/07/02 09:57:36 XO02 XPT7200  ACO0 ASRA +5CBF COBOL    0C7-DATA EXC         8
P3800013      15 CICSTEST 1994/07/02 10:29:06 APUA DSNCETX  BA21 AEXY +0000 ASSMBLER ABNORMAL COND.      12
P3800014      16 CICSTOR1 1994/07/02 10:41:38 EM43 EMAP430  T404 UAMA +0000 COBOL    ABNORMAL COND.       5
P3800015      17 CICSPROD 1994/07/02 10:41:55 F925 FIM500X  P5B0 ATCH +2534 ASSMBLER ABNORMAL COND.      13
P3800016      18 CICSPROD 1994/07/02 12:33:26 PM41 PMAP410  T513 ATNI +0000 ASSMBLER 0C1-OPERATION EXC   10
P3800017      19 CICSTOR1 1994/07/02 13:01:52 ISQL ARIITRM  L3DR AKCT +A354 ASSMBLER 0C4-PROTECTION EXC  21
P3800018      20 CICSTOR1 1994/07/02 15:15:26 OLLY OLLXCUI  LT8A AICA +0F36 ASSMBLER ABNORMAL COND.       1
P3800019      22 CICSPROD 1994/07/02 18:26:22 ASL1 HSPFCHE  ACP2 AMTH +0000 COBOL    ABNORMAL COND.       1
P3800020      23 CICSPROD 1994/07/03 06:33:26 DYNT CATODSPA LT8C AKCT +0000 ASSMBLER ABNORMAL COND.      30
P3800021      24 CICSTEST 1994/07/03 07:21:16 FAQS DFHCRP   LT96 AZI4 +0000 ASSMBLER ABNORMAL COND.       3
P3800022      25 CICSTOR1 1994/07/03 07:55:07 OLXP OLXP1000 LPDU ATNI +A354 ASSMBLER 0C4-PROTECTION EXC   2
P3800023      26 CICSPROD 1994/07/03 08:13:12 UFO  UFLJBT00 ABJ0 AZI6 +0000 ASSMBLER ABNORMAL COND.       7
P3800024      28 CICSPROD 1994/07/03 08:33:26 SPS5 DCBINIT  AC33 AEY9 +0000 ASSMBLER ABNORMAL COND.       6
P3800025      29 CICSTOR1 1994/07/03 08:41:37 SCHE HSPFCHE  TN96 ARIE +0000 ASSMBLER ABNORMAL COND.       1
P3800026      30 CICSTOR1 1994/07/03 09:15:26 SPFC HSPA1T   ADC9 AEY9 +B938 COBOL    0C1-OPERATION EXC    4
P3800027      31 CICSPROD 1994/07/03 09:28:32 P1MG VHEP990  AID1 UAMF +1886 ASSMBLER ABNORMAL COND.       2
P3800028      32 CICSPROD 1994/07/03 09:57:36 KTT5 PTFD506  ACO0 ASRA +DC04 ASSMBLER 0C4-OPERATION EXC   17
P3800029      34 CICSTEST 1994/07/03 10:29:06 FSBK SNCFR05  BA21 AEXY +0000 COBOL    ABNORMAL COND.      13
P3800030      35 CICSTOR1 1994/07/03 12:41:38 DPG3 DSQMAIN  T404 AEY8 +0000 COBOL    ABNORMAL COND.       9
P3800031      36 TESTCICS 1994/07/03 15:19:30 FNTL ATDSPCR  L382 AKCT +A735 ASSMBLER 0C4-PROTECTION EXC   3
P3800032      37 CICSPROD 1994/07/03 18:33:26 RPM4 RPMP401  T513 ATNI +0000 COBOL    ABNORMAL COND.      11
```

Figure 2-4. Transaction Abend Summary Report.

The following is a description of each field in the summary report:

SEQ #

AUTOMON/LA assigned sequence number.

PAGE #

Page number in the corresponding detail report. This field is displayed only if SUMMARY=YES and DETAIL=YES)

APPLID

VTAM application identification.

DATE

Date in the format YYYY/MM/DD.

TIME

Time in the format HH:MM:SS.

TRAN

CICS transaction identification.

PROGRAM

CICS program identification.

TERM

CICS terminal identification.

ABCD

CICS/USER abend code.

OFFSET

Offset at the time of the abend.

LANG

Program's language.

REASON CODE

Type of the abend.

TOTAL #

Total number of matching occurrences.

Chapter 3. Storage Violations/System Crashes

This Chapter Describes:

Input File

Output Report Format

JCL for Batch Report

Batch Utility Command Language Format

Detail Report

Summary Report

3.1. Batch Utility

This chapter introduces the functions of AUTOMON/LA batch utility for storage violations and system crash analysis. It lists the AUTOMON/LA detail and summary output reports for storage violations and system crashes and tells you how to select certain type of records.

3.2. Input

The AUTOMON/LA batch utility uses AUTOMON/CICS history database (AMON001) as an input. The AMON001 is a standard KSDS VSAM file, and it is sharable with CICS/VS systems. (You do not need to close or de-allocate the file).

3.3. Output

AUTOMON/LA report for storage violations and system crashes consists of two parts: a detail and a summary section. The detail section contains information from all data records pertaining to storage violations and system crashes that AUTOMON/CICS has collected. The summary section provides a sum of the selected storage violations and system crashes.

- Detail report
- Summary report

3.4. JCL For the Storage Violation/System Abends Report

Figure 3-1 is a sample of the job stream that must be submitted to request reports from AUTOMON/LA storage violation/system abend utility. The job stream to generate batch reports must meet the following requirements:

- ! The first STEPLIB must point the AUTOMON/CICS loadlib.
- ! The second STEPLIB must point the AUTOMON/LA/BATCH loadlib.
- ! SYSPRINT must exist and should be checked for AUTOMON/LA/BATCH and operating error messages.
- ! SYSOUT must exist.
- ! SYSDET and SYSSUM must exist.
- ! AMON001 must exist and should point AUTOMON.SYS001 history database.
- ! AMON003 must exist and should point UNICOM/CENTRAL security file (AMON501).
- ! UMON001 must exist and should point UNIMON.SYS001 system file.
- ! DFHCMACD must exist and should point CICSvvv.DFHCMACD CICS message file where "vvv" represents the appropriate CICS release. (eg. CICS330.DFHCMACD)
- ! The SYSIN DD statement points to the AUTOMON/LA batch utility commands and keywords that specify the reports you want to produce. In the first job step (CSHLIST) , DETAIL(YES) must be specified as a SYSIN parameter.

- ! You should follow your system naming conventions and replace UNIT=uuuu with DASD devices at your installation.
- ! You should replace VOL=SER=vvvv with a suitable volume serial number.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//*
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//*
//AMON001  DD    DISP=SHR,DSN=CICS311.AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
 APPLID(*), -                APPLICATION ID(S).....(UP
TO8)
 DETAIL(YES),  -                                PRINT  DETAIL
REPORT.....(YES|NO)
 SUMMARY(NO),  -                               PRINT  SUMMARY
REPORT.....(YES|NO)
 FROM(1900/01/01,00:00:00),                                -
FROM.....(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59),                                  -
TO.....(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999),  -                              MAX  RECORD
SELECTION.....(0-9999999)
 SKIP(0)                      # OF RECORDS TO BYPASSED..(0-
9999999)
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//*
//SORTWK01 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=UUUU,VOL=SER=vvvvvv,
```

```
//                SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD     SYSOUT=*
//SYSOUT   DD     SYSOUT=*
//SYSIN    DD     *
 SORT FIELDS=(2,31,BI,A),EQUALS
/*
```

Figure 3-1. Sample Report Generation JCL for Storage Violations/System Abends

```
//*************************************************************
//*+=========================================================+*
//*| PRINT AUTOMON/LA STORAGE VIOLATION/SYSTEM ABEND REPORT  |*
//*+=========================================================+*
//*************************************************************
//REPORT   EXEC  PGM=CSH68SV,COND=(4,LT)
//*
//STEPLIB  DD    DISP=SHR,DSN=UNICOM.AMONLA.V420.LOADLIB
//AMON002  DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR,DSN=UNICOM.CENTRAL.AMON501
//DFHCMACD DD    DISP=SHR,DSN=CICSVVV.DFHCMACD
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD *
 WTO(YES),  -                                WRITE  TO  OPERATOR
MSG....(YES|NO)
 COMPANY(YOUR COMPANY NAME), -  YOUR COMPANY NAME......(UP TO
42)
 APPLID(*), -                  APPLICATION ID(S).......(UP TO
8)
 SABCD(*), -                     SYSTEM ABENDS OR *SVD*..(UP
TO12)
 TRAN(*), -                    TRANSACTION ID(S)......(UP TO
12)
 TERM(*), -                    TERMINAL ID(S).........(UP TO
12)
 PGM(*), -                     PROGRAM NAME(S).........(UP TO
8)
 DETAIL(YES),  -                                  PRINT  DETAIL
REPORT......(YES|NO)
 SUMMARY(YES),  -                               PRINT  SUMMARY
REPORT.....(YES|NO)
 FROM(1900/01/01,00:00:00),                                    -
FROM.........(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59),                                      -
TO...........(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999),  -                               MAX  RECORD
SELECTIONS.()0-9999999)
 SKIP(0)                                  #  OF  RECORDS  TO  BE
BYPASSED.(0-9999999)
```

```
/*
```

Figure 3-1. Sample Report Generation JCL for Storage Violations/System Abends cont.

3.5. Batch Utility Command Language Format

With AUTOMON/LA/BATCH storage violation/system crash utility, control statements created from a command language are used to request the various reports. This command language format is shown in figure 3-2.

BLANK	COMMAND	OPERANDS	COMMENTS
blank	command name	one or more operands	comments

Figure 3-2. The Command Language Format.

Command Format

The general format of the command to produce a AUTOMON/CICS batch report is:

Keyword(subkeyword)

Where keyword is the keyword parameter for the report being requested.

To request selective application report, use the keyword APPLID and a subkeyword to specify the application ID. The general format of the command is:

APPLID (subkeyword)

Where subkeyword is the application ID.

AUTOMON/L batch utility commands are read in from the data set pointed to by the SYSIN DD statement in your job stream. A single command can contain a maximum of one line.

3.5.1. Batch Utility Commands

The keyword used for the tailoring are as follows:

Batch Commands

APPLID

VTAM application identification.
Value : One to eight VTAM APPLIDs or * - all
Example: APPLID(CICSTOR,AOR1) - select CICSTOR and AOR1
Default: *

EAPPLID

To exclude a certain APPLID (s), proceed the statement with an E.
Example: EAPPLID(CICSTOR,AOR1) - selected applids CICSTOR and AOR1 will be excluded from the report, however this is not available for job step (CSHLIST).

NOTE: APPLID and EAPPLID are mutually exclusive parameters.

COMPANY

Your company name for the report heading.
Value : up to 42 Characters
Example: COMPANY(ABC COMPANY)

COUNT

Used to specify the maximum line count.
Value : 0 to 9999999
Example: COUNT(2000)
Default: 9999999

DETAIL

Print detail report.
Value : YES or NO
Example: DETAIL(YES)
Default: YES

FROM

Used to specify the start of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies a start time. Only data collected after this start time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: FROM(1994/01/01,05:00:00)
Default: 0000/01/01,00:00:00

PGM

Program names to be reported on.
Value : One to eight program names or * - all
Example: PGM(DFHEMTP,CCASDCTL) select DFHEMTP and CCASDCTL
Default: *

EPGM

To exclude a certain program(s),proceed the statement with an E.
Example: EPGM(DFHEMTP,CCASDCTL) - selected programs DFHEMTP and CCASDCTL will be excluded from the report.
Default: *

NOTE: PGM and EPGM are mutually exclusive parameters.

SABCD

System Abend codes or Storage Violation identifier.
Value : One to twelve System Abend codes and/or the Storage Violation identifier (*SVD*)
Example: SABCD(U0409,S0106,*SVD*) Report all occurrences of user abend code U0409, system abend code S0106 as well as any storage violations.
Default: *

ESABCD

Excludes System Abend codes or Storage Violation identifier.
Value : One to twelve System Abend codes and/or the Storage Violation identifier (*SVD*)
Example: ESABCD(U0409,S0106,*SVD*) Excludes all occurrences of user abend code U0409, system abend code S0106 as well as any storage violations.
Default: *

NOTE: SABCD and ESABCD are mutually exclusive parameters.

PAGESIZE

Used to specify the number of data lines per page.
Value : 0 - 9999999
If 0 is specified for this parameter then no report header will be written.
Example: PAGESIZE(57), - 57 data lines per page
Default: 52

SKIP

Used to specify the number of records to be bypassed.
Value : 0 to 9999999
Example: SKIP(2000)
Default: 0

SUMMARY

Print summary report.
Value : YES or NO
Example: SUMMARY(YES)
Default: YES

TERM

Terminal Identification
Value : One to twelve terminal ids.
Example: TERM(TV01,TV05) - select terminal id TV01 and TV05
Default: *

ETERM

To exclude a certain terminal(s), proceed the statement with an E.
Example: ETERM(TV01,TV05) - selected terminals TV01 and TV05 will be excluded from the report.

NOTE: TERM and ETERM are mutually exclusive parameters.

TO

Used to specify the end of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies an end time. Only data collected before this end time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: TO(1994/01/01,20:00:00)
Default: 2099/12/31,23:59:59

TRAN

Transaction Identification
Value : One to twelve transaction ids.
Example: TRAN(CEMT,DYNT) - select transaction ids CEMT and DYNT
Default: *

ETRAN

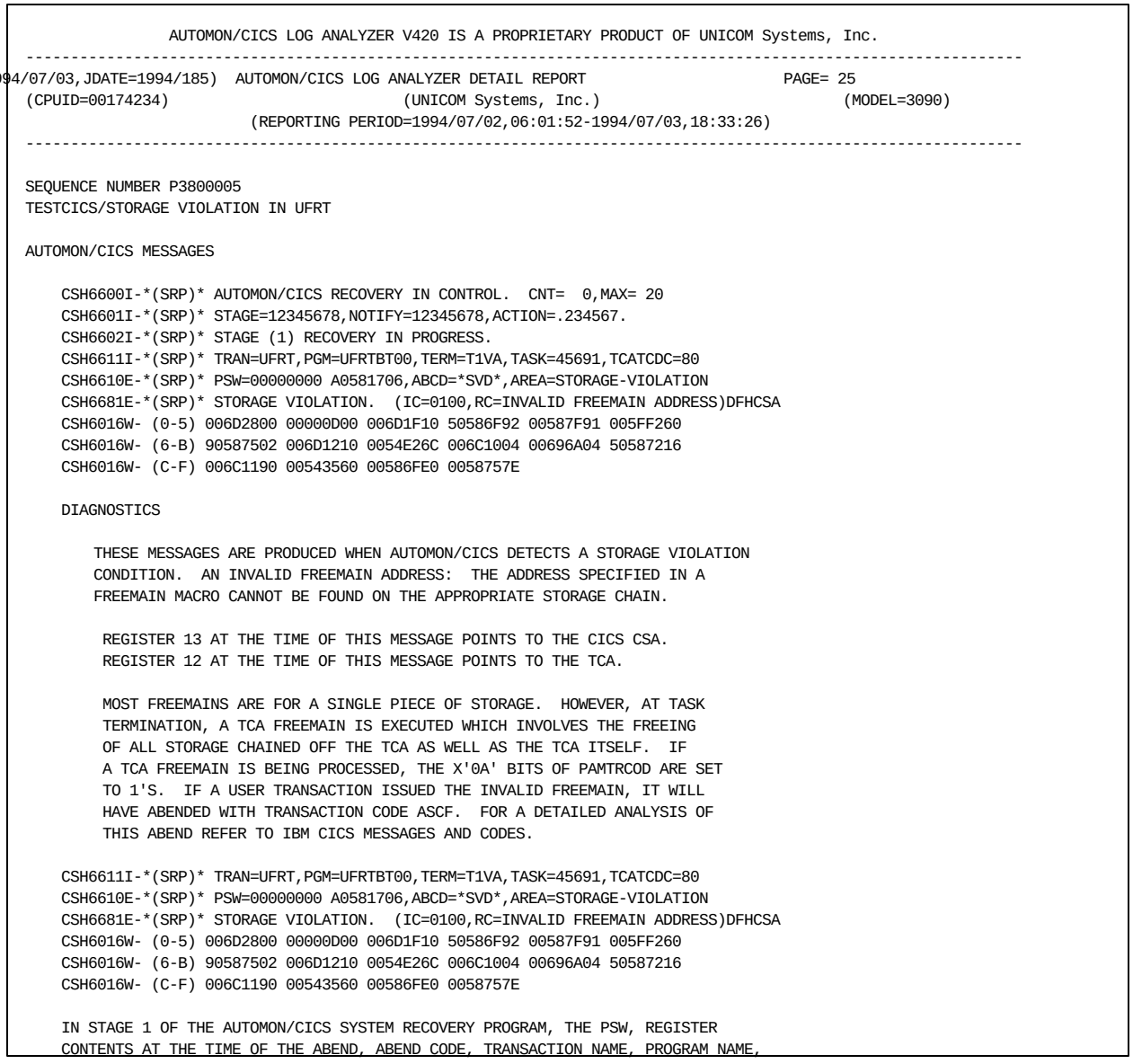
To exclude a certain transaction(s), proceed the statement with an E.
Example: ETRAN(CEMT,DYNT) - selected transactions CEMT and DYNT will be excluded from the report.

NOTE: TRAN and ETRAN are mutually exclusive parameters.

WTO

The selected keyword will be logged to the system console
Value : YES or NO
Example: WTO(YES)
Default: YES

3.6. Detail Report



```
                AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
-------------------------------------------------------------------------------------------------------------
(DATE=1994/07/03,JDATE=1994/185)  AUTOMON/CICS LOG ANALYZER DETAIL REPORT                    PAGE= 25
(CPUID=00174234)                        (UNICOM Systems, Inc.)                          (MODEL=3090)
                          (REPORTING PERIOD=1994/07/02,06:01:52-1994/07/03,18:33:26)
-------------------------------------------------------------------------------------------------------------

SEQUENCE NUMBER P3800005
TESTCICS/STORAGE VIOLATION IN UFRT

AUTOMON/CICS MESSAGES

    CSH6600I-*(SRP)* AUTOMON/CICS RECOVERY IN CONTROL.  CNT=  0,MAX= 20
    CSH6601I-*(SRP)* STAGE=12345678,NOTIFY=12345678,ACTION=.234567.
    CSH6602I-*(SRP)* STAGE (1) RECOVERY IN PROGRESS.
    CSH6611I-*(SRP)* TRAN=UFRT,PGM=UFRTBT00,TERM=T1VA,TASK=45691,TCATCDC=80
    CSH6610E-*(SRP)* PSW=00000000 A0581706,ABCD=*SVD*,AREA=STORAGE-VIOLATION
    CSH6681E-*(SRP)* STORAGE VIOLATION.  (IC=0100,RC=INVALID FREEMAIN ADDRESS)DFHCSA
    CSH6016W- (0-5) 006D2800 00000D00 006D1F10 50586F92 00587F91 005FF260
    CSH6016W- (6-B) 90587502 006D1210 0054E26C 006C1004 00696A04 50587216
    CSH6016W- (C-F) 006C1190 00543560 00586FE0 0058757E

    DIAGNOSTICS

        THESE MESSAGES ARE PRODUCED WHEN AUTOMON/CICS DETECTS A STORAGE VIOLATION
        CONDITION.  AN INVALID FREEMAIN ADDRESS:  THE ADDRESS SPECIFIED IN A
        FREEMAIN MACRO CANNOT BE FOUND ON THE APPROPRIATE STORAGE CHAIN.

         REGISTER 13 AT THE TIME OF THIS MESSAGE POINTS TO THE CICS CSA.
         REGISTER 12 AT THE TIME OF THIS MESSAGE POINTS TO THE TCA.

         MOST FREEMAINS ARE FOR A SINGLE PIECE OF STORAGE.  HOWEVER, AT TASK
         TERMINATION, A TCA FREEMAIN IS EXECUTED WHICH INVOLVES THE FREEING
         OF ALL STORAGE CHAINED OFF THE TCA AS WELL AS THE TCA ITSELF.  IF
         A TCA FREEMAIN IS BEING PROCESSED, THE X'0A' BITS OF PAMTRCOD ARE SET
         TO 1'S.  IF A USER TRANSACTION ISSUED THE INVALID FREEMAIN, IT WILL
         HAVE ABENDED WITH TRANSACTION CODE ASCF.  FOR A DETAILED ANALYSIS OF
         THIS ABEND REFER TO IBM CICS MESSAGES AND CODES.

    CSH6611I-*(SRP)* TRAN=UFRT,PGM=UFRTBT00,TERM=T1VA,TASK=45691,TCATCDC=80
    CSH6610E-*(SRP)* PSW=00000000 A0581706,ABCD=*SVD*,AREA=STORAGE-VIOLATION
    CSH6681E-*(SRP)* STORAGE VIOLATION.  (IC=0100,RC=INVALID FREEMAIN ADDRESS)DFHCSA
    CSH6016W- (0-5) 006D2800 00000D00 006D1F10 50586F92 00587F91 005FF260
    CSH6016W- (6-B) 90587502 006D1210 0054E26C 006C1004 00696A04 50587216
    CSH6016W- (C-F) 006C1190 00543560 00586FE0 0058757E

    IN STAGE 1 OF THE AUTOMON/CICS SYSTEM RECOVERY PROGRAM, THE PSW, REGISTER
    CONTENTS AT THE TIME OF THE ABEND, ABEND CODE, TRANSACTION NAME, PROGRAM NAME,
    TERMINAL ID, TASK NUMBER, ETC. WILL BE REPORTED.  IF THE STAGE 1 ACTION FLAG IS
    TURNED ON, A SNAP DUMP (ID=01) WILL BE PRODUCED ON TO THE AMON002 FILE.  THE
    INFORMATION FOUND IN THE DUMP CONTAINS SYSTEM INFORMATION BEFORE THE REPAIR
    SUBTASK INTERCEPTS THE ABEND.

    CSH6620I-*(SRP)* CSA=00543270,OFL=00543670,SSA=00E023E0,PAM=005F8E30
```

```
CSH6624I-*(SRP)* ACTION IN STORAGE VIOLATION.
```

Figure 3-3. Storage Violation/System Abend Detail Report

```
IN STAGE 2 OF THE AUTOMON/CICS RECOVERY PROGRAM, THE VERIFICATION OF THE CICS/VS
FOUNDATION WILL BE PERFORMED FOR THE POSSIBILITY OF STORAGE OVERLAY CONDITIONS.
THE REPAIR SUBTASK WILL BE ATTACHED TO TAKE CORRECTIVE ACTIONS TO REPAIR THE
DAMAGED CICS/VS FOUNDATION.  AUTOMON/CICS SPECIFIES WHETHER THE DAMAGED SYSTEM
AREAS (ECG. CSA, OPFL,ECT) WILL BE REPAIRED OR NOT.

CSH6630I-*(SRP)* ..................ACTIVE TASKS.......................
CSH6611I-*(SRP)* TRAN=CSTP,PGM=        ,TERM=DTKO,TASK=TCP  ,TCATCDC=44
CSH6611I-*(SRP)* TRAM=AMON,PGM=CSHAMPC ,TERM=N/A ,TASK=   15,TCATCDC=80
CSH6611I-*(SRP)* TRAN=UFRT,PGM=UFRTBT00,TERM=T1VA,TASK=45691,TCATCDC=80
CSH6611I-*(SRP)* TRAM=FAQW,PGM=FAQSCICW,TERM=N/A ,TASK=   14,TCATCDC=80
CSH6611I-*(SRP)* TRAN=XXFC,PGM=CACCXFM0,TERM=N/A ,TASK=   20,TCATCDC=80
CSH6611I-*(SRP)* TRAM=CSSY,PGM=        ,TERM=N/A ,TASK=   12,TCATCDC=80
CSH6630I-*(SRP)* ..................SUSPENDED TASKS......................
CSH6611I-*(SRP)* TRAM=CSNC,PGM=DFHCRNP ,TERM=N/A ,TASK=   16,TCATCDC=10

IN STAGE 3 OF THE AUTOMON/CICS RECOVERY PROGRAM, THE VERIFICATION OF CICS/VS
TASK CHAINS WILL BE PERFORMED FOR THE POSSIBILITY OF STORAGE OVERLAY CONDITIONS.
THE REPAIR SUBTASK WILL BE ATTACHED TO TAKE CORRECTIVE ACTIONS TO REPAIR THE
DAMAGED TASK CHAINS.  AUTOMON/CICS SPECIFIES WHETHER THE TRANSACTION AT THE TIME
OF A SYSTEM CRASH AND/OR STORAGE VIOLATION WILL BE DISABLED OR NOT.

CSH6620I-*(SRP)* DSA=00183000,PGA=000001EC,PGF=000003EE,PGT=0000067E
CSH6621E-*(SRP)* A STORAGE VERIFICATION FAILED.
CSH6622E-*(SRP)* ADDRESS=00214300,MODULE=FAQE-CON,OFFSET=+00922D0
CSH6623E-*(SRP)* CURRENT=D5C4E340E3C5C3C8 SHOULD BE=????????????????
CSH6624I-*(SRP)* ACTION IN STORAGE VIOLATION.

IN STAGE 4 OF THE SYSTEMS RECOVERY PROGRAM, THE VERIFICATION OF THE
DYNAMIC STORAGE AREA WILL BE PERFORMED FOR THE POSSIBILITY OF STORAGE OVERLAY
CONDITIONS.  THE REPAIR SUBTASK WILL BE ATTACHED TO TAKE CORRECTIVE ACTIONS
TO REPAIR THE DAMAGED STORAGE AREAS.  AUTOMON/CICS SPECIFIES WHETHER THE
DAMAGED STORAGE AREAS WILL BE CORRECTED OR NOT.

CSH6620I-*(SRP)* KCP=408F1744,PCP=008D0F00,SCP=00CCC020,TCP=008D91F8
CSH6624I-*(SRP)* ACTION IN STORAGE VIOLATION.

IN STAGE 5 OF THE AUTOMON/CICS SYSTEMS RECOVERY PROGRAM, THE VERIFICATION
OF KEY CICS/VS NUCLEUS MODULES WILL BE PERFORMED FOR THE POSSIBILITY OF
STORAGE OVERLAY CONDITIONS.  THE REPAIR SUBTASK WILL BE ATTACHED TO TAKE
CORRECTIVE ACTIONS TO REPAIR THE DAMAGED CICS/VS NUCLEUS MODULES.

CSH6620I-*(SRP)* FCT=008CD660,PCT=001EA744,PPT=001DA904,TCT=001900C4
CSH6650I-*(SRP)* DFHFCT VERIFICATION IN PROGRESS
CSH6650I-*(SRP)* DFHPCT VERIFICATION IN PROGRESS
CSH6650I-*(SRP)* DFHPPT VERIFICATION IN PROGRESS
CSH6650I-*(SRP)* DFHTCT VERIFICATION IN PROGRESS

IN STAGE 6 OF THE AUTOMON/CICS SYSTEMS RECOVERY PROGRAM, THE VERIFICATION
OF KEY CICS/VS SYSTEM TABLES AND TABLE MANAGER'S STORAGE POINTERS WILL BE
PERFORMED FOR THE POSSIBILITY OF STORAGE OVERLAY CONDITIONS.  THE REPAIR
SUBTASK WILL BE ATTACHED TO TAKE CORRECTIVE ACTION TO REPAIR THE DAMAGED
CICS SYSTEM TABLES.


CSH6602I-*(SRP)* TCX=008D8BE8,QCA=008F8C28,TBM=008083B8,TST=00000000
CSH6650I-(*SRP)* DFHAID VERIFICATION IN PROGRESS.
CSH6650I-(*SRP)* DFHICE VERIFICATION IN PROGRESS.

IN STAGE 7 OF THE AUTOMON/CICS SYSTEMS RECOVERY PROGRAM, THE VERIFICATION
OF KEY CICS/VS SYSTEM AREAS AND POINTERS WILL BE PERFORMED FOR THE
POSSIBILITY OF STORAGE OVERLAY CONDITIONS.  THE REPAIR SUBTASK WILL BE
ATTACHED TO TAKE CORRECTIVE ACTION TO REPAIR THE DAMAGED CICS/VS SYSTEM
AREAS AND POINTERS.
```

Figure 3-3. Storage Violation/System Abend Detail Report cont.

```
    CSH6680I-*(SRP)* .ENTRIES...ENABLED......USED.....TOTAL
    CSH6680I-*(SRP)* ...FCTTE        19        22       124
    CSH6680I-*(SRP)* ...PCTTE       493        94       493
    CSH6680I-*(SRP)* ...PPTTE     1,642       270     1,642
    CSH6680I-*(SRP)* ...TCTTE       173        12       186

    IN STAGE 8 OF THE AUTOMON/CICS SYSTEMS RECOVERY PROGRAM, THE SUMMARY REPORT
    WILL BE PRODUCED.  IF THE STAGE 8 ACTION FLAG IS TURNED ON, A SNAP DUMP
    (ID-08) WILL BE PRODUCED ON TO THE AMON002 FILE.  THE INFORMATION FOUND IN
    THE DUMP CONTAINS THE AFTER IMAGE OF WHICH THE REPAIR SUBTASK HAS BEEN
    SUCCESSFULLY PERFORMED FOR ALL RECOVERY STAGES.

DIAGNOSIS

    APPLID:                         TESTCICS
    DATE:                           1994/07/03
    TIME:                           18:15:26
    TRANSACTION:           UFRT
    PROGRAM:                        UFRTBT00
    TASK NUMBER:           45691
    CURRENT TASK CNTL IND:          80
    TERMINAL:                       T1VA
    ABEND CODE:            *SVD*
    REASON CODE:           INVALID FREEMAIN ADDRESS
    PSW:                            00000000 8058856E
    AREA:                           STORAGE-VIOLATION
    AUTOMON/CICS MODE:              ACTION
```

Figure 3-3. Storage Violation/System Abend Detail Report cont.

The following is a description of each field in the detail report:

SEQUENCE #

AUTOMON/LA assigned sequence number.

PAGE TITLE

The page title contains the application identification. In the case of a storage violation the transaction involved in the storage violation is also given. In the case of a system crash the system abend code is listed with the applid.

AUTOMON/CICS MESSAGES

The AUTOMON/CICS messages associated with this storage violation/system crash condition will be listed. An explanation of the corresponding messages will give the user further insight about the problem occurring in the system.

DIAGNOSTICS

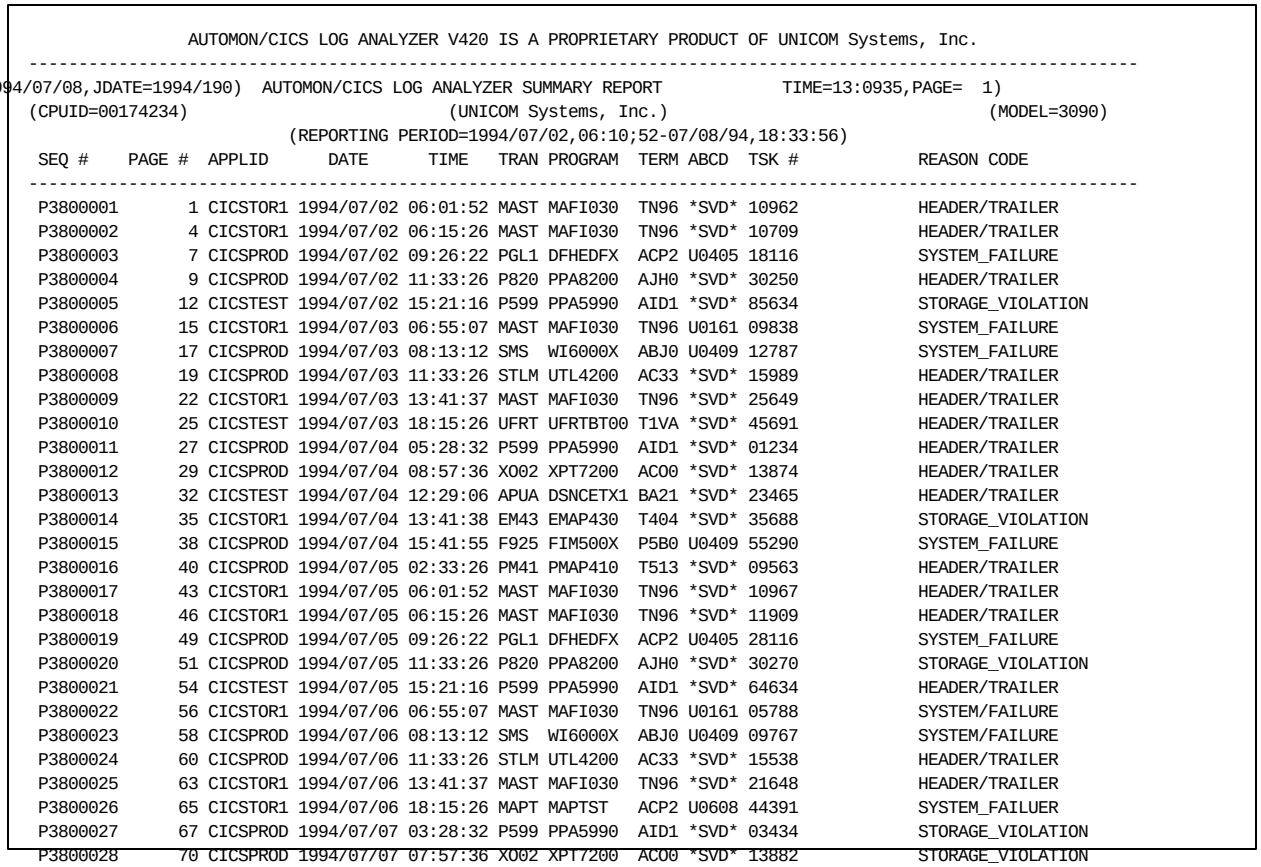
AUTOMON/LA will give a description of the condition occurring within the system as well as the probable cause of these conditions. Other diagnostic information including the areas specific registers are addressing at the time of the problem will also be listed in this section of the report.

DIAGNOSIS

AUTOMON/LA will give the following information for each storage violation/system crash condition:

- APPLID - VTAM application identification.
- DATE - Date of this particular transaction abend. Format yyyy/dd/mm.
- TIME - Time of this particular transaction abend. Format hh:mm:ss.
- TRANSACTION - CICS transaction identification.
- PROGRAM - CICS program identification.
- TASK NUMBER - CICS task number.
- ABEND CODE - CICS/USER transaction abend code.
- HEADER ADDRESS - SAA/Storage Check Zone header address.
- HEADER DATA - Data at header address.
- TRAILER ADDRESS - SAA/Storage Check Zone trailer address.
- TRAILER DATA - Data at trailer address.
- REASON CODE - CICS interrupt code explanation.
- LANGUAGE - Language in which the program is written.
- REASON CODE - Program interruption code.
- PSW - CICS program status word.
- AREA - Storage Violation or System Abend
- AUTOMON/CICS MODE - Warning or Action.

3.7. Summary Report



```
                AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
 ------------------------------------------------------------------------------------------------------------------------
(DATE=1994/07/08,JDATE=1994/190)  AUTOMON/CICS LOG ANALYZER SUMMARY REPORT           TIME=13:0935,PAGE=  1)
 (CPUID=00174234)                        (UNICOM Systems, Inc.)                                    (MODEL=3090)
                          (REPORTING PERIOD=1994/07/02,06:10;52-07/08/94,18:33:56)
 SEQ #    PAGE #  APPLID      DATE      TIME   TRAN PROGRAM  TERM ABCD  TSK #            REASON CODE
------------------------------------------------------------------------------------------------------------------------
 P3800001       1 CICSTOR1 1994/07/02 06:01:52 MAST MAFI030  TN96 *SVD* 10962           HEADER/TRAILER
 P3800002       4 CICSTOR1 1994/07/02 06:15:26 MAST MAFI030  TN96 *SVD* 10709           HEADER/TRAILER
 P3800003       7 CICSPROD 1994/07/02 09:26:22 PGL1 DFHEDFX  ACP2 U0405 18116           SYSTEM_FAILURE
 P3800004       9 CICSPROD 1994/07/02 11:33:26 P820 PPA8200  AJH0 *SVD* 30250           HEADER/TRAILER
 P3800005      12 CICSTEST 1994/07/02 15:21:16 P599 PPA5990  AID1 *SVD* 85634           STORAGE_VIOLATION
 P3800006      15 CICSTOR1 1994/07/03 06:55:07 MAST MAFI030  TN96 U0161 09838           SYSTEM_FAILURE
 P3800007      17 CICSPROD 1994/07/03 08:13:12 SMS  WI6000X  ABJ0 U0409 12787           SYSTEM_FAILURE
 P3800008      19 CICSPROD 1994/07/03 11:33:26 STLM UTL4200  AC33 *SVD* 15989           HEADER/TRAILER
 P3800009      22 CICSTOR1 1994/07/03 13:41:37 MAST MAFI030  TN96 *SVD* 25649           HEADER/TRAILER
 P3800010      25 CICSTEST 1994/07/03 18:15:26 UFRT UFRTBT00 T1VA *SVD* 45691           HEADER/TRAILER
 P3800011      27 CICSPROD 1994/07/04 05:28:32 P599 PPA5990  AID1 *SVD* 01234           HEADER/TRAILER
 P3800012      29 CICSPROD 1994/07/04 08:57:36 XO02 XPT7200  ACO0 *SVD* 13874           HEADER/TRAILER
 P3800013      32 CICSTEST 1994/07/04 12:29:06 APUA DSNCETX1 BA21 *SVD* 23465           HEADER/TRAILER
 P3800014      35 CICSTOR1 1994/07/04 13:41:38 EM43 EMAP430  T404 *SVD* 35688           STORAGE_VIOLATION
 P3800015      38 CICSPROD 1994/07/04 15:41:55 F925 FIM500X  P5B0 U0409 55290           SYSTEM_FAILURE
 P3800016      40 CICSPROD 1994/07/05 02:33:26 PM41 PMAP410  T513 *SVD* 09563           HEADER/TRAILER
 P3800017      43 CICSTOR1 1994/07/05 06:01:52 MAST MAFI030  TN96 *SVD* 10967           HEADER/TRAILER
 P3800018      46 CICSTOR1 1994/07/05 06:15:26 MAST MAFI030  TN96 *SVD* 11909           HEADER/TRAILER
 P3800019      49 CICSPROD 1994/07/05 09:26:22 PGL1 DFHEDFX  ACP2 U0405 28116           SYSTEM_FAILURE
 P3800020      51 CICSPROD 1994/07/05 11:33:26 P820 PPA8200  AJH0 *SVD* 30270           STORAGE_VIOLATION
 P3800021      54 CICSTEST 1994/07/05 15:21:16 P599 PPA5990  AID1 *SVD* 64634           HEADER/TRAILER
 P3800022      56 CICSTOR1 1994/07/06 06:55:07 MAST MAFI030  TN96 U0161 05788           SYSTEM/FAILURE
 P3800023      58 CICSPROD 1994/07/06 08:13:12 SMS  WI6000X  ABJ0 U0409 09767           SYSTEM/FAILURE
 P3800024      60 CICSPROD 1994/07/06 11:33:26 STLM UTL4200  AC33 *SVD* 15538           HEADER/TRAILER
 P3800025      63 CICSTOR1 1994/07/06 13:41:37 MAST MAFI030  TN96 *SVD* 21648           HEADER/TRAILER
 P3800026      65 CICSTOR1 1994/07/06 18:15:26 MAPT MAPTST   ACP2 U0608 44391           SYSTEM_FAILUER
 P3800027      67 CICSPROD 1994/07/07 03:28:32 P599 PPA5990  AID1 *SVD* 03434           STORAGE_VIOLATION
 P3800028      70 CICSPROD 1994/07/07 07:57:36 XO02 XPT7200  ACO0 *SVD* 13882           STORAGE_VIOLATION
 P3800029      73 CICSTEST 1994/07/07 10:29:06 APUA DSNCETX1 BA21 *SVD* 23366           HEADER/TRAILER
 P3800030      76 CICSTOR1 1994/07/07 14:41:38 EM43 EMAP430  T404 *SVD* 31658           HEADER/TRAILER
 P3800031      78 CICSPROD 1994/07/07 18:41:55 F925 FIM500X  P5B0 U0409 53290           SYSTEM_FAILURE
 P3800032      80 CICSPROD 1994/07/08 21:33:26 PM41 PMAP410  T513 *SVD* 09356           HEADER/TRAILER
```

Figure 3-4. Storage Violation/System Abend Summary Report.

The following is a description of each field in the summary report:

SEQ #

AUTOMON/LA assigned sequence number.

PAGE #

Page number in the corresponding detail report. This field is displayed only if SUMMARY=YES and DETAIL=YES)

APPLID

VTAM application identification.

DATE

Date in the format YYYY/MM/DD.

TIME

Time in the format HH:MM:SS.

TRAN

CICS transaction identification.

PROGRAM

CICS program identification.

TERM

CICS terminal identification.

ABCD

CICS system abend code, *SVD* for storage violation or *SGK* for storage key violation.

TASK #

CICS assigned task number.

REASON CODE

Type of Abend.

Chapter 4. Message Analysis

This Chapter Describes:

Input File

Output Report Format

JCL for Batch Report

Batch Utility Command Language Format

Detail Report

Summary Report

4.1. Batch Utility

This chapter introduces the functions of AUTOMON/LA batch utility for message analysis. It lists the AUTOMON/LA detail and summary output reports for message analysis and tells you how to select certain type of records.

4.2. Input

AUTOMON/LA batch utility uses AUTOMON/CICS history database (AMON001) as an input. The AMON001 is a standard KSDS VSAM file, and it is sharable with CICS/VS systems. (You do not need to close or deallocate the file).

4.3. Output

The AUTOMON/LA report for message analysis consists of two parts: a detail and a summary section. The detail section contains information from all data records of the type that AUTOMON/CICS batch utility collected. The summary section provides a sum of the selected data record types.

! Detail report

! Summary report

4.4. JCL For the Batch Report

Figure 4-1 is a sample of the job stream that must be submitted to request reports from AUTOMON/LA message analysis utility. The job stream to generate batch reports must meet the following requirements:

- The first STEPLIB must point the AUTOMON/CICS loadlib.
- The second STEPLIB must point the AUTOMON/LA/BATCH loadlib.
- SYSPRINT must exist and should be checked for AUTOMON/CICS and operating error messages.
- SYSOUT must exist.
- SYSDET and SYSSUM MUST EXIST.
- AMON001 must exist and should point AUTOMON.SYS001 history database.
- AMON003 must exist and should point UNICOM/CENTRAL security database (AMON501).
- UMON001 must exist and should point UNIMON.SYS001 system file.
- The SYSIN DD statement points to the AUTOMON/LA batch utility commands and keyword that specify the reports you want to produce. In the first job step (CSHLIST), DETAIL(YES) must be specified as a SYSIN parameter.
- You should follow your system naming conventions and replace UNIT=UUUU with DASD devices at your installation.
- You should replace VOL=SER=vvvvvv with a suitable volume serial number.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//*
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//*
//AMON001  DD    DISP=SHR,DSN=CICS311.AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=UUUU,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
 APPLID(*), -                    APPLICATION ID(S).......UP TO 8
 EXCLUDE(CSH0000*), -            MESSAGES TO EXCLUDE.....UP TO 8
 DETAIL(YES), -                  PRINT DETAIL REPORT......YES|NO
 SUMMARY(NO), -                  PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -    FROM......(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -      TO........(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999), -               MAX RECORD SELECTIONS.0-9999999
 SKIP(0), -                      BYPASS................0-9999999
 SCAN(FORWARD), -                DIRECTION....(FORWARD|BACKWARD)
 TYPE(*)                        RECORD SELECTIONS...(A,E,I,W,O)
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//*
//SORTWK01 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=UUUU,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
//SYSOUT   DD    SYSOUT=*
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
```

```
/*
```

Figure 4-1. Sample Message Report Generation JCL.

```
//*+=========================================================+*
//*|      PRINT AUTOMON/LA/BATCH MESSAGE ANALYSIS REPORT     |*
//*+=========================================================+*
//REPORT   EXEC  PGM=CSH68AM,REGION=6M,COND=(4,LT)
//*
//STEPLIB  DD    DISP=SHR,DSN=UNICOM.AMONLA.V420.LOADLIB
//AMON002  DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR,DSN=UNICOM.CENTRAL.AMON501
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD    *
 WTO(YES), -                      WRITE MSG TO OPERATOR....YES|NO
 COMPANY(YOUR COMPANY NAME), -    YOUR COMPANY NAME......UP TO 42
 APPLID(*), -                     APPLICATION ID(S).......UP TO 8
 MSG(*), -                        AUTOMON MESSAGE(S)......UP TO 8
 DETAIL(YES), -                   PRINT DETAIL REPORT......YES|NO
 SUMMARY(YES), -                  PRINT SUMMARY REPORT.....YES|NO
 SYNOPSIS(YES), -                 PRINT SYNOPSIS REPORT....YES|NO
 FROM(1900/01/01,00:00:00), -     FROM......(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -       TO........(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999), -                MAX RECORD SELECTIONS.0-9999999
 SKIP(0)                          BYPASS.................0-9999999
/*
```

Figure 4-1. Sample Message Report Generation JCL.

4.5. Batch Utility Command Language Format

With AUTOMON/LA message analysis batch utility, control statements created from a command language are used to request the various reports. This command language format is shown in figure 4-2.

BLANK	COMMAND	OPERANDS	COMMENTS
blank	command name	one or more operands	comments

Figure 4-2. The Command Language Format.

Command Format

The general format of the command to produce a AUTOMON/CICS batch report is:

Keyword(subkeyword)

Where keyword is the keyword parameter for the report being requested.

To request selective application report, use the keyword APPLID and a subkeyword to specify the application ID. The general format of the command is:

APPLID (subkeyword)

Where subkeyword is the application ID.

AUTOMON/L batch utility commands are read in from the data set pointed to by the SYSIN DD statement in your job stream. A single command can contain a maximum of one line.

4.5.1. Batch Utility Commands

The keyword used for the tailoring are as follows:

Batch Commands

APPLID

VTAM application identification.
Value : One to eight VTAM APPLIDs or * - all
Example: APPLID (CICSTOR,AOR1) - select CICSTOR and AOR1
Default: *

EAPPLID

To exclude a certain APPLID (s), proceed the statement with an E.
Example: EAPPLID(CICSTOR,AOR1) - selected applids CICSTOR and AOR1 will be excluded from the report, however this is not available for
job step (CSHLIST).

NOTE: APPLID and EAPPLID are mutually exclusive parameters.

COMPANY

Your company name for the report heading.
Value : up to 42 Characters
Example: COMPANY(ABC COMPANY)

COUNT

Used to specify the maximum line count.
Value : 0 to 9999999
Example: COUNT(2000)
Default: 9999999

DETAIL

Print detail report.
Value : YES or NO
Example: DETAIL(YES)
Default: YES

EXCLUDE

AUTOMON/CICS messages to be excluded from the batch utility
Value : One to eight AUTOMON/CICS messages
Example: EXCLUDE(CSH6600*,CSH6601*), - exclude messages CSH6600 and CSH6601 from the message analysis. Do not code this keyword if you want to include all AUTOMON/CICS messages.
Please note: EXCLUDE is only available in job step (CSHLIST). In addition the EXCLUDE and INCLUDE keywords are mutually exclusive.

INCLUDE

AUTOMON/CICS messages to be included in the batch utility
Value : One to eight AUTOMON/CICS messages
Example: INCLUDE(CSH6600*,CSH6601*), - include messages CSH6600 and CSH6601 in the message analysis. Do not code this keyword if you want to include all AUTOMON/CICS messages.
Please note: INCLUDE is only available in job step (CSHLIST). In addition the INCLUDE and EXCLUDE keywords are mutually exclusive.

FROM

Used to specify the start of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies a start time. Only data collected after this start time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: FROM(1994/01/01,05:00:00)
Default: 0000/01/01,00:00:00

MSG

Used to create an inclusive list of AUTOMON/CICS messages.
Value : One to eight AUTOMON/CICS message numbers or (*) for all
Example: MSG(CSH6205*,CSH6207*), - select messages CSH6205 and CSH6207
Default: *

EMSG

To exclude certain message(s), proceed the statement with an E.
Example: EMSG(CSH6205*,CSH6207*), - selected messages CSH6205 and CSH6207 will be excluded from the report.

NOTE: MSG and EMSG are mutually exclusive parameters.

PAGESIZE

Used to specify the number of data lines per page.
Value : 0 - 9999999
If 0 is specified for this parameter then no report header will be written.
Example: PAGESIZE(57), - 57 data lines per page
Default: 52

SKIP

Used to specify the number of records to be bypassed.
Value : 0 to 9999999
Example: SKIP(2000)
Default: 0

SUMMARY

Print summary report.
Value : YES or NO
Example: SUMMARY(YES)
Default: YES

SYNOPSIS

Print synopsis report. Only the first occurrence of identical AUTOMON/CICS messages will be processed in the detail report. The summary report will include a field for the number of identical occurrences of a particular AUTOMON/CICS message. In order to be considered an identical message the VTAM application id and AUTOMON/CICS message number must match. If NO is specified all occurrences of AUTOMON/CICS messages will appear in the detail report. In the summary report all occurrences of a AUTOMON/CICS messages will be reported and the total field will be blank.
Value : YES or NO
Example: SYNOPSIS(YES)
Default: YES

TO

Used to specify the end of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies an end time. Only data collected before this end time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: TO(1994/01/01,20:00:00)
Default: 2099/12/31,23:59:59

WTO

The selected keyword will be logged to the system console
Value : YES or NO
Example: WTO(YES)
Default: YES

4.6. Detail Report

```
                AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
 ---------------------------------------------------------------------------------------------------------------
(DATE=1994/07/03,JDATE=1994/185)  AUTOMON/CICS LOG ANALYZER DETAIL REPORT                      PAGE= 26
 (CPUID=00174234)                          (UNICOM Systems, Inc.)                              (MODEL=3090)
                          (REPORTING PERIOD=1994/07/01,10:56:24-1994/07/05,11:52:25)
 ---------------------------------------------------------------------------------------------------------------
  SEQUENCE NUMBER P3800022
  TESTCICS/SHORT ON STORAGE ISSUES

  AUTOMON/CICS MESSAGES

        CSH6100I-SHORT ON STORAGE.  DSA=7034K,FREE= 217K,MXT= 32,TASKS=  7

  AUTOMON THRESHOLDS
        MENU SELECTION 0 SUBMENU OPTION 2 (=0.2) CAN BE USED TO SET
        AUTOMON/CICS THRESHOLD VALUES.

        ___ITEM___  ___FLAG___  ___CYCLE___  ___NOTIFY___  ___ACTION___
           SOS          ON          60            1            60

  DESCRIPTION

        AFTER PROGRAM COMPRESSION, IF A GETMAIN REQUEST FOR A LARGE AREA CAN'T
        BE SATISFIED, CICS TURNS THE SOS INDICATOR IN CSA.  WHEN THE SOS INDICATOR
        IS ON, THE TASK DISPATCHER (DFHKCP) WON'T ATTACH NEW TASKS AND CICS GOES
        INTO SYSTEM STRESS.  THE OVERHEAD OF PROGRAM COMPRESSION, SOS CONDITIONS
        AND SYSTEM STRESS CONDITIONS CAN CAUSE CPU AND WORKING SET REQUIREMENTS OF
        CICS TO INCREASE DRAMATICALLY.  ANY RES=NO PROGRAMS ARE SUBJECT TO PROGRAM
        COMPRESSION.  THE PROGRAM COMPRESSION DELETES ALL NON-RESIDENT PROGRAMS
        THAT AREN'T CURRENTLY IN USE.  DFHPCP DOES NOT RELOAD (FETCH) ANY PROGRAMS
        INTO THE DSA UNTIL THEY HAVE BEEN SUCCESSFULLY DELETED FROM THE DSA.  BECAUSE
        CICS USES A SINGLE ASYNCRONOUS LOADER FOR PROGRAM LOADING, MANY TASKS CAN
        BE QUEUED UP REQUIRING THE USE OF PROGRAMS.

  RECOMMENDATIONS

        MUST ELIMINATE SYSTEM STRESS CONDITIONS AND PROGRAM COMPRESSIONS.  THESE SHOULD
        BE AVOIDED BY USING ADEQUATE VIRTUAL STORAGE FOR THE CICS REGION, AND THEREBY
        ENSURING A DSA THAT HAS ADEQUATE FREE STORAGE.
        O    INCREASE THE DSA SIZE AND THE STORAGE CUSHION SIZE (SCS)
        O    MONITOR THE PROGRAM COMPRESSION RATE DURING PEAK PERIOD FOR TUNING.
        O    EVALUATE "RES=YES" AND "USAGE=MAP" PPT OPTIONS TO REDUCE PROGRAM LOAD I/O'S.
             NOTE: NONRESIDENT PROGRAMS INCREASE FRAGMENTATION.
        O    USE THE VSAM LSR BUFFER POOL OPTIONS FOR FCT DEFINITIONS.  LSR'S SHARE
             A COMMON POOL OF BUFFERS AND A COMMON POOL OF STRINGS.  THE COST OF
             ASSIGNING ADDITIONAL BUFFERS ON DATASETS ARE THE ADDITIONAL VIRTUAL AND
             REAL STORAGE OVERHEAD.

  DIAGNOSIS

        APPLID:                    TESTCICS
        DATE:                      1994/07/01
        TIME:                      13:37:53
        DSA SIZE:          7034K
        DSA FREE:          217K
        MAXIMUM TASK VALUE:        32
```

```
CURRENT TASKS:              7
```

Figure 4-3. Message Analysis Detail Report.

The following is a description of each field in the detail report:

SEQUENCE #

AUTOMON/LA assigned sequence number.

PAGE TITLE

The page title contains the application identification and a title corresponding to the message topic.

AUTOMON/CICS MESSAGES

The AUTOMON/CICS message is displayed.

AUTOMON THRESHOLDS

AUTOMON/LA will inform the user, when applicable, as to the menu selections and parameters affecting the occurrence of this message.

DESCRIPTION

AUTOMON/LA will give a detailed description of the system conditions causing this message to be generated. Recommendations are given to prevent recurrence of critical CICS problems.

DIAGNOSIS

AUTOMON/LA will give the following information in addition to any relevant information produced in the AUTOMON/CICS message:

- APPLID - VTAM application identification.
- DATE - Date this AUTOMON/CICS message was generated.
  Format yyyy/mm/dd.
- TIME - Time this AUTOMON/CICS message was generated.
  Format hh:mm:ss.
- Other information includes but is not limited to transaction identification, program name, terminal identification, abend code, storage cushion size, DSA size, strings, threads, thresholds, and accumulators.

4.7. Summary Report

```
                    AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
 ------------------------------------------------------------------------------------------------------------------
(DATE=07/03/94,JDATE=94/185)        AUTOMON/CICS LOG ANALYZER SUMMARY REPORT                          PAGE=  1
 (CPUID=00174234)                          (UNICOM Systems, Inc.)                                  (MODEL=3090)
                              (REPORTING PERIOD=1994/07/01,11:54:12-07/03/94,08:04:34)
 SEQ #    PAGE #  APPLID     DATE      TIME   MESSAGE NUMBER AND MESSAGE INFORMATION                    TOTAL #
 ------------------------------------------------------------------------------------------------------------------   P3800001
3 CICSTOR1 1994/07/01 09:42:12 CSH6101A-MXT VALUE ALTERED. DSA=2048K,FREE=2242K,MXT=999,        237
 P3800002      4 CICSTOR1 1994/07/01 09:42:12 CSH6160I-(LOG) MXT NEW=999, OLD=30                  237
 P3800003      5 CICSTOR1 1994/07/01 10:21:02 CSH6303E-STORAGE VIOLATION.  CNT=1,TRN=CA00,TRM=TN76  5
 P3800004      6 CICSTEST 1994/07/01 10:21:03 CSH6306A-STORAGE VIOLATION IN PROGRESS.               5
 P3800005      7 CICSTOR1 1994/07/01 10:21:03 CSH6304E-HEAD:A=0008C320-8C000020,TAIL:A=0008C348-F3F40020  5
 P3800006      8 CICSTEST 1994/07/01 10:21:03 CSH6623E-*(SRP)* CURRENT:0000000000000000 SHOULD BE:8C001  5
 P3800007      9 CICSTOR1 1994/07/01 10:21:03 CSH6624A-*(SRP)* ACTION IN STORAGE VIOLATION.         5
 P3800008     10 CICSTOR1 1994/07/01 10:21:03 CSH6305E-DATA:F1F2F3F4F5F6F7F8F9F000000000 1234567890.....  80
 P3800009     11 CICSTOR1 1994/07/01 10:21:03 CSH6606A-*ACTION* CONTROL IS BEING GIVEN TO CICS/ESA  5
 P3800010     12 CICSTEST 1994/07/01 10:39:02 CSH6200W-LOOP/WAIT DETECTION.  TRAN=UFO,PGM=UFLJBT00,TERM=  3
 P3800011     13 CICSTOR1 1994/07/01 10:49:49 CSH6201I-*ACTION* LOOP.  TRAN=UFO,PGM=UFLJBT00,TERM=LD30,A  3
 P3800012     14 CICSTEST 1994/07/01 10:51:04 CSH6205I-TASK ABENDED. TRAN=MAST,PROGRAM=MAFI030,TERM=TN96  467
 P3800013     15 CICSTEST 1994/07/01 10:51:04 CSH6206I-PSW=000003FC,ENTRY=008D2008,OFFSET=+0000,LAN=COBO  467
 P3800014     16 CICSTEST 1994/07/01 10:51:04 CSH6207I-0BJ=.....,RC=ABNORMAL CONDITION             467
 P3800015     17 CICSTOR1 1994/07/01 10:51:04 CSH6016W-(0-5) 0074B05C 00746252 00743800 00000000 00747B1  401
 P3800016     18 CICSTEST 1994/07/01 11:19:49 CSH6402W-VTAM TERMINAL PENDING.  TERM=KTTE,NETNAME=KT0XX0E  27
 P3800017     19 CICSTEST 1994/07/01 11:31:04 CSH6690I-22:40:02|..CURRENT..|..AVERAGE.|....HWM...|..HWMT  45
 P3800018     20 CICSTOR1 1994/07/01 11:49:49 CSH6343W-(EXC) TOTAL TASKS.  TOT=14,824               8
 P3800019     21 CICSTOR1 1994/07/01 11:49:49 CSH6160I-(EXC) GETMAIN REQUESTS.  TOT=  773,619      15
 P3800020     22 CICSTOR1 1994/07/01 11:50:04 CSH6205I-(EXC) FREEMAIN REQUESTS.  TOT=  767,424     15
 P3800021     23 CICSTEST 1994/07/01 11:57:23 CSH6380W-(DEG) AMXT WAIT.  TOT=  1,THREADS=  1       66
 P3800022     24 CICSTEST 1994/07/01 12:28:01 CSH6100I-SHORT-ON-STORAGE.  DSA=7034,FREE=1712K,MXT= 39,TA  24
 P3800023     25 CICSTEST 1994/07/01 12:29:16 CSH6103A-*ACTION* SOS.  MXT= 32,AMXT= 29,TRAN=QM2 ,TERM=N/  8
 P3800024     26 CICSTEST 1994/07/01 12:29:21 CSH6700I-CICS IS NO LONGER SHORT-ON-STORAGE           24
 P3800025     27 CICSTEST 1994/07/01 12:29:21 CSH6706A-*ACTION* CUSHION SIZE ALTERED.  DSA=7034K,SCS= 10  8
 P3800026     28 CICSTEST 1994/07/01 12:29:22 CSH6162I-(LOG) CUSHION NEW=106,496,OLD=102,400        8
 P3800027     29 CICSTEST 1994/07/01 12:29:59 CSH6346W-(EXC) SOS COUNTS.  TOT=  3                   5
 P3800028     30 CICSTEST 1994/07/01 13:38:59 CSH6182I-(DUMP) RUNAWAY TASKS.  COUNT=  1                    18
 P3800029     31 CICSTEST 1994/07/01 13:38:59 CSH6400W-VSAM STRING WAIT.  STRING=  2,WAIT= 11,FILE=STRD0  37
 P3800030     32 CICSTEST 1994/07/01 13:38:59 CSH6180I-(DUMP) STORAGE DUMP.  COUNT=  3                  108
 P3800031     33 CICSTEST 1994/07/01 13:38:59 CSH6401W-JOURNAL SWITCH PENDING.  RESOURCE=DFHJ01A        4
 P3800032     34 CICSTEST 1994/07/01 13:38:59 CSH6403W-EXCESSIVE AUX TEMP STOR USAGE.  USED= 99%        6
```

Figure 4-4. The Message Analysis Summary Report

The following is a description of each field in the summary report:

SEQ #

AUTOMON/LA assigned sequence number.

PAGE #

Page number in the corresponding detail report. (This field is displayed only if SUMMARY=YES and DETAIL=YES)

APPLID

VTAM application identification.

DATE

Date in the format YYYY/MM/DD.

TIME

Time in the format HH:MM:SS.

MESSAGE NUMBER AND MESSAGE INFORMATION

AUTOMON/CICS history database message.

TOTAL #

Total number of occurrences matching in the same APPLID.

Chapter 5. Performance Data Analysis

This Chapter Describes:

Input File

Output Report Format

JCL for Batch Report

Batch Utility Command Language Format

Detail Report

Summary Report

5.1. Batch Utility

This chapter introduces the functions of AUTOMON/LA batch utility for performance data analysis. It lists the AUTOMON/LA detail and summary output reports for performance data analysis and tells you how to produce different types of reports.

5.2. Input

AUTOMON/LA batch utility uses AUTOMON/CICS history database (AMON001) as an input. The AMON001 is a standard KSDS VSAM file, and it is sharable with CICS/VS systems. (You do not need to close or de-allocate the file).

5.3. Output

The AUTOMON/LA report for performance data analysis consists of three optional parts: a detail, summary and download sections. The detail section contains a listing of all the performance records produced by the AUTOMON/CICS.batch utility. The summary section provides totals of the performance data collected for a specified time frame. The download section allows the user to create a sequential file which may be imported to a personal computer. UNICOM Systems will provide users with an Microsoft Excel spreadsheet which will use the downloaded data as input. Using the Microsoft Excel spreadsheet, users may produce a number of graphical representations of the performance data collected.

! Detail report

! Summary report

! Download report

5.4. JCL For the Batch Report

Figure 5-1 is a sample of the job stream that must be submitted to request reports from AUTOMON/LA performance data analysis utility. The job stream to generate batch reports must meet the following requirements:

- The first STEPLIB must point the AUTOMON/CICS loadlib.
- The second STEPLIB must point the AUTOMON/LA/BATCH loadlib.
- SYSPRINT must exist and should be checked for AUTOMON/CICS and operating error messages.
- SYSOUT must exist.
- SYSDET and SYSSUM MUST EXIST.
- AMON001 must exist and should point AUTOMON.SYS001 history database.
- AMON003 must exist and should point UNICOM/CENTRAL security database (AMON501).
- UMON001 must exist and should point UNIMON.SYS001 system file.
- The SYSIN DD statement points to the AUTOMON/LA batch utility commands and keyword that specify the reports you want to produce. In the first job step (CSHLIST), DETAIL(YES) must be specified as a SYSIN parameter.
- You should follow your system naming conventions and replace UNIT=UUUU with DASD devices at your installation.
- You should replace VOL=SER=vvvvvv with a suitable volume serial number.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//*
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//*
//AMON001  DD    DISP=SHR,DSN=CICS311.AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=UUUU,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
 APPLID(*), -                  APPLICATION ID(S).......UP TO 8
 INCLUDE(CSH6693*), -          MESSAGES TO EXCLUDE.....UP TO 8
 DETAIL(YES), -                PRINT DETAIL REPORT......YES|NO
 SUMMARY(NO), -                PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -  FROM......(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -    TO........(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999), -             MAX RECORD SELECTIONS.0-9999999
 SKIP(0), -                    BYPASS................0-9999999
 SCAN(FORWARD), -              DIRECTION....(FORWARD|BACKWARD)
 TYPE(*)                       RECORD SELECTIONS...(A,E,I,W,O)
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//*
//SORTWK01 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=UUUU,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=UUUU,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
//SYSOUT   DD    SYSOUT=*
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
```

```
/*
```

Figure 5-1. Sample Performance Data Report Generation JCL.

```
//*+=========================================================+*
//*|      PRINT AUTOMON/LA/BATCH PERFORMANCE ANALYSIS REPORT |*
//*+=========================================================+*
//REPORT   EXEC  PGM=CSH68MN,REGION=6M,COND=(4,LT)
//*
//STEPLIB  DD    DISP=SHR,DSN=UNICOM.AMONLA.V420.LOADLIB
//AMON002  DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR,DSN=UNICOM.CENTRAL.AMON501
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD    *
  WTO(YES),                                                    -
  COMPANY(YOUR COMPANY NAME), - COMPANY NAME
  APPLID(*), -                 APPLICATION ID(S).....(UP TO 8)
  DETAIL(NO), -                PRINT DETAIL REPORT....(YES|NO)
  SUMMARY(YES), -              PRINT SUMMARY REPORT...(YES|NO)
  FROM(1998/08/05,00:00:00), - FROM......(YYYY/MM/DD,HH:MM:SS)
  TO(1998/09/03,23:59:59), -   TO........(YYYY/MM/DD,HH:MM:SS)
  BY(D), -                     BY.............(H|D|W|M|Y|1-999)
  SELECT(CPU,TRAN,I/O,CONN), - DATATYPE REPORTED
  DOWNLOAD(YES), -             DOWNLOAD TO FLAT FILE..(YES|NO)
  PAGESIZE(52), -              MAX RECORDS PER PAGE....(0-999)
  COUNT(9999999), -            MAX RECORD SELECTION(0-9999999)
  SKIP(0)                      RECORDS TO BYPASSED.(0-9999999)
/*
```

Figure 5-1. Sample Performance Data Report Generation JCL.

5.5. Batch Utility Command Language Format

With AUTOMON/LA message analysis batch utility, control statements created from a command language are used to request the various reports. This command language format is shown in figure 4-2.

BLANK	COMMAND	OPERANDS	COMMENTS
blank	command name	one or more operands	comments

Figure 5-2. The Command Language Format.

Command Format

The general format of the command to produce a AUTOMON/CICS batch report is:

Keyword(subkeyword)

Where keyword is the keyword parameter for the report being requested.

To request selective application report, use the keyword APPLID and a subkeyword to specify the application ID. The general format of the command is:

APPLID (subkeyword)

Where subkeyword is the application ID.

AUTOMON/L batch utility commands are read in from the data set pointed to by the SYSIN DD statement in your job stream. A single command can contain a maximum of one line.

5.5.1. Batch Utility Commands

The keyword used for the tailoring are as follows:

Batch Commands

APPLID

VTAM application identification.
Value : One to eight VTAM APPLIDs or * - all
Example: APPLID(CICSTOR,AOR1) - select CICSTOR and AOR1
Default: *

BY

Summary and download reporting interval. The data contained in the performance records are accumulated until the interval expires. Once the interval has expired a summary and/or download record is written to reflect the performance data collected within the specified interval. Summary and/or download records will continue to be written when the next interval expires until the end of the input is reached.
Value : H|D|W|M|Y|1-999

- H - Hourly reporting interval
- D - Daily reporting interval
- W- Weekly reporting interval
- M- Monthly reporting interval
- Y- Yearly reporting interval
- 1-999- Customized reporting interval in days

Example: BY(D), - write a summary and/or download record reflecting the accumulated performance data on a daily basis
Default: H – Hourly summary/download report processing

COMPANY

Your company name for the report heading.
Value : up to 42 Characters
Example: COMPANY(ABC COMPANY)

COUNT

Used to specify the maximum line count.
Value : 0 to 9999999
Example: COUNT(2000)
Default: 9999999

DETAIL

Print detail report.
Value : YES or NO
Example: DETAIL(YES)
Default: YES

DOWNLOAD

Write download report.
Value : YES or NO
Example: DOWNLOAD(YES)
Default: YES

EAPPLID

To exclude a certain APPLID(s), proceed the statement with an E.
Example: EAPPLID(CICSTOR,AOR1) - selected applids CICSTOR and AOR1 will be excluded from the report, however this is not available for
job step (CSHLIST).
NOTE: APPLID and EAPPLID are mutually exclusive parameters.

FROM

Used to specify the start of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies a start time. Only data collected after this start time will be processed. Both date and time are optional. The subkeyword of '****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: FROM(1994/01/01,05:00:00)
Default: 0000/01/01,00:00:00

PAGESIZE

Used to specify the number of data lines per page.
Value : 0 - 9999999
If 0 is specified for this parameter then no report header will be written.
Example: PAGESIZE(57), - 57 data lines per page
Default: 52

SELECT

Used to specify the type of performance data processed in the summary and download reports. There are four main parameters which may be coded with the select command(CPU, TRAN, I/O and CONN). The user may code any combination of these four parameters in the select command.

CPU - Total accumulated CPU time for the CICS address space.
TRAN - Total transactions processed by the CICS address space.
I/O - Total I/Os processed by CICS
CONN - Total connect time of the CICS address space.

Each of these four main parameters may have two positional sub-parameters coded. The first positional sub-parameter modifies the scaling factor on the graphic display portion of the summary report. The second positional sub-parameter modifies the unit in which the accumulated total is reported. The two sub-parameters are demonstrated in the following example:

CPU(10,K)

- CPU - Report total accumulated CPU time and rate for CICS address space.
- 10 - 10% of total CPU time is upper bound in CPU graphical display
- K - The total CICS CPU time reported is in units of 1000.

If coded, valid values for the scale sub-parameter are 1-100. The default is 100%
If coded, valid values for the unit sub-parameter are K,M,B,T or 1-9999999

- K - total is reported in units of 1,000.
- M - total is reported in units of 1,000,000.
- B - total is reported in units of 1,000,000,000.
- T - total is reported in units of 1,000,000,000,000.
- 1-9999999 - total is reported in the custom unit specified.

The default for the unit sub-parameter is 1.
Value : any combination of CPU,TRAN,I/O,CONN and their associated sub-parameters
Example: SELECT(CPU(10,K),I/O(,M),CONN)
Default: SELECT(CPU,TRAN,I/O,CONN)

SKIP

Used to specify the number of records to be bypassed.
Value : 0 to 9999999
Example: SKIP(2000)
Default: 0

SUMMARY

Print summary report.
Value : YES or NO
Example: SUMMARY(YES)
Default: YES

TO

Used to specify the end of the reporting period. This keyword is coded as a date along with a time in the format(YYYY/MM/DD,HH:MM:SS) and specifies an end time. Only data collected before this end time will be processed. Both date and time are optional. The subkeyword of "****/**/**" will be substituted with today's date.
Value : YYYY/MM/DD,HH:MM:SS or ****/**/**,HH:MM:SS
Example: TO(1994/01/01,20:00:00)
Default: 2099/12/31,23:59:59

WTO

The selected keyword will be logged to the system console
Value : YES or NO
Example: WTO(YES)
Default: YES

5.6. Detail Report

```
                AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM Systems, Inc.
-------------------------------------------------------------------------------------------------------------------
DATE=1994/07/03,JDATE=1994/185)  AUTOMON/CICS LOG ANALYZER DETAIL REPORT                              PAGE= 26
(CPUID=00174234)                          (UNICOM Systems, Inc.)                                  (MODEL=3090)
                       (REPORTING PERIOD=1994/07/01,10:56:24-1994/07/05,11:52:25)
 APPLID      DATE      TIME        MESSAGE NUMBER AND MESSAGE INFORMATION
-------------------------------------------------------------------------------------------------------------------
CICS410   1998/08/15 05:00:00   CSH6693I-(HH) CPU : TOT=       231.262,RATE=  6.42394%,UNIT=   36
CICS410   1998/08/15 05:00:00   CSH6693I-(HH) TRAN: TOT=        11,135,RATE=        3/SEC
CICS410   1998/08/15 05:00:00   CSH6693I-(HH) I/O : TOT=       261,981,RATE=       73/SEC
CICS410   1998/08/15 05:00:00   CSH6693I-(HH) CONN: TOT=        86.902,RATE=  2.41394%
CICS410   1998/08/15 06:00:00   CSH6693I-(HH) CPU : TOT=       276.285,RATE=  7.67458%,UNIT=   37
CICS410   1998/08/15 06:00:00   CSH6693I-(HH) TRAN: TOT=        11,569,RATE=        3/SEC
CICS410   1998/08/15 06:00:00   CSH6693I-(HH) I/O : TOT=       131,230,RATE=       36/SEC
CICS410   1998/08/15 06:00:00   CSH6693I-(HH) CONN: TOT=        81.935,RATE=  2.27597%
CICS410   1998/08/15 07:00:00   CSH6693I-(HH) CPU : TOT=       231.347,RATE=  6.42630%,UNIT=   38
CICS410   1998/08/15 07:00:00   CSH6693I-(HH) TRAN: TOT=        15,231,RATE=        4/SEC
CICS410   1998/08/15 07:00:00   CSH6693I-(HH) I/O : TOT=       152,936,RATE=       42/SEC
CICS410   1998/08/15 07:00:00   CSH6693I-(HH) CONN: TOT=        72.634,RATE=  2.01761%
CICS410   1998/08/15 08:00:00   CSH6693I-(HH) CPU : TOT=       327.317,RATE=  9.09213%,UNIT=   39
CICS410   1998/08/15 08:00:00   CSH6693I-(HH) TRAN: TOT=        12,673,RATE=        4/SEC
CICS410   1998/08/15 08:00:00   CSH6693I-(HH) I/O : TOT=       163,430,RATE=       45/SEC
CICS410   1998/08/15 08:00:00   CSH6693I-(HH) CONN: TOT=        81.935,RATE=  2.27597%
CICS410   1998/08/15 09:00:00   CSH6693I-(HH) CPU : TOT=       184.235,RATE=  5.11763%,UNIT=   40
CICS410   1998/08/15 09:00:00   CSH6693I-(HH) TRAN: TOT=        10,285,RATE=        3/SEC
CICS410   1998/08/15 09:00:00   CSH6693I-(HH) I/O : TOT=       139,784,RATE=       39/SEC
CICS410   1998/08/15 09:00:00   CSH6693I-(HH) CONN: TOT=        86.902,RATE=  2.41394%
CICS410   1998/08/15 10:00:00   CSH6693I-(HH) CPU : TOT=       331.758,RATE=  9.21550%,UNIT=   41
CICS410   1998/08/15 10:00:00   CSH6693I-(HH) TRAN: TOT=        17,191,RATE=        5/SEC
CICS410   1998/08/15 10:00:00   CSH6693I-(HH) I/O : TOT=       167,980,RATE=       47/SEC
CICS410   1998/08/15 10:00:00   CSH6693I-(HH) CONN: TOT=        91.125,RATE=  2.53125%
CICS410   1998/08/15 11:00:00   CSH6693I-(HH) CPU : TOT=       327.254,RATE=  9.09038%,UNIT=   42
CICS410   1998/08/15 11:00:00   CSH6693I-(HH) TRAN: TOT=        15,349,RATE=        4/SEC
CICS410   1998/08/15 11:00:00   CSH6693I-(HH) I/O : TOT=       168,984,RATE=       47/SEC
CICS410   1998/08/15 11:00:00   CSH6693I-(HH) CONN: TOT=        92.634,RATE=  2.57316%
CICS410   1998/08/15 12:00:00   CSH6693I-(HH) CPU : TOT=       276.393,RATE=  7.67758%,UNIT=   43
CICS410   1998/08/15 12:00:00   CSH6693I-(HH) TRAN: TOT=        13,180,RATE=        4/SEC
CICS410   1998/08/15 12:00:00   CSH6693I-(HH) I/O : TOT=       215,030,RATE=       60/SEC
CICS410   1998/08/15 12:00:00   CSH6693I-(HH) CONN: TOT=        86.902,RATE=  2.41394%
CICS410   1998/08/15 13:00:00   CSH6693I-(HH) CPU : TOT=       281.614,RATE=  7.82261%,UNIT=   44
CICS410   1998/08/15 13:00:00   CSH6693I-(HH) TRAN: TOT=        15,240,RATE=        4/SEC
CICS410   1998/08/15 13:00:00   CSH6693I-(HH) I/O : TOT=       216,326,RATE=       60/SEC
CICS410   1998/08/15 13:00:00   CSH6693I-(HH) CONN: TOT=        87.935,RATE=  2.44263%
CICS410   1998/08/15 14:00:00   CSH6693I-(HH) CPU : TOT=       329.307,RATE=  9.14741%,UNIT=   45
CICS410   1998/08/15 14:00:00   CSH6693I-(HH) TRAN: TOT=        13,178,RATE=        4/SEC
CICS410   1998/08/15 14:00:00   CSH6693I-(HH) I/O : TOT=       195,982,RATE=       54/SEC
CICS410   1998/08/15 14:00:00   CSH6693I-(HH) CONN: TOT=        83.935,RATE=  2.33152%
CICS410   1998/08/15 15:00:00   CSH6693I-(HH) CPU : TOT=       284.299,RATE=  0.14719%,UNIT=   46
CICS410   1998/08/15 15:00:00   CSH6693I-(HH) TRAN: TOT=        12,356,RATE=        3/ SEC
CICS410   1998/08/15 15:00:00   CSH6693I-(HH) I/O : TOT=       176,812,RATE=       49/SEC
CICS410   1998/08/15 15:00:00   CSH6693I-(HH) CONN: TOT=        76.902,RATE=  2.13616%
CICS410   1998/08/15 16:00:00   CSH6693I-(HH) CPU : TOT=       251.352,RATE=  6.98200%,UNIT=   47
CICS410   1998/08/15 16:00:00   CSH6693I-(HH) TRAN: TOT=        11,189,RATE=        3/SEC
CICS410   1998/08/15 16:00:00   CSH6693I-(HH) I/O : TOT=       162,913,RATE=       45/SEC
CICS410   1998/08/15 16:00:00   CSH6693I-(HH) CONN: TOT=        71.935,RATE=  1.99819%
```

Figure 5-3. Performance Data Analysis Detail Report.

The following is a description of each field in the detail report:

APPLID

VTAM application identification.

DATE

Date in the format YYYY/MM/DD.

TIME

Time in the format HH:MM:SS.

MESSAGE NUMBER AND MESSAGE INFORMATION

Performance data captured by AUTOMON/CICS.

5.7. Summary Report

```
 COPYRIGHT(C) 1985-1998.     AUTOMON/CICS LOG ANALYZER V420 IS A PROPRIETARY PRODUCT OF UNICOM SYSTEMS, INC.      ALL RIGHTS
RESERVED
 ------------------------------------------------------------------------------------------------------------------------------
-----
 (DATE=1998/09/21,JDATE=1998/264)             PERFORMANCE DATA ANALYSIS DAILY SUMMARY                  (TIME=13:11:59,PAGE=
   1)
 (CPUID=F8210501)                                    (UNICOM SYSTEMS, INC.)
(MODEL=9121)
                                    (REPORTING PERIOD=1998/08/15,00:00:00-1998/09/06,23:59:59)

  APPLID      DATE     TIME    CPU(0)    %          TRANS(0) RATE          I/O(0)  RATE         CONN(0)    %            MSG
TOTAL #
 ------------------------------------------------------------------------------------------------------------------------------
-----
 CICS410  1998/08/15 00:00:00     5531   6.4 |-->     296721     3 |>      3545695    41 |->        1759   2.0 |>
   24
 CICS410  1998/08/16 00:00:00     5302   6.1 |-->     180981     2 |>      2183326    25 |>         1854   2.1 |>
   24
 CICS410  1998/08/17 00:00:00     2791   3.2 |>      115368     1 |       1112865    13 |          931   1.1 |
   22
 CICS410  1998/08/18 00:00:00     3835   4.4 |->     118369     1 |       1327329    15 |          1020   1.2 |
   23
 CICS410  1998/08/19 01:00:00     8053   9.3 |--->    425331     5 |->     5388105    62 |-->       3093   3.6 |>
   23
 CICS410  1998/08/20 00:00:00        0   0.0 |             0     0 |             0     0 |             0   0.0 |
    0
 CICS410  1998/08/21 00:00:00     5812   6.7 |-->     318235     4 |->     4413615    51 |->        2309   2.7 |>
   17
 CICS410  1998/08/22 01:00:00     6252   7.2 |-->     341951     4 |->     4733927    55 |->        2517   2.9 |>
   19
 CICS410  1998/08/23 00:00:00     7175   8.3 |--->    409673     5 |->     5163496    60 |-->       2887   3.3 |>
   22
 CICS410  1998/08/24 00:00:00     4418   5.1 |->      238348     3 |>      3878520    45 |->        1933   2.2 |>
   20
 CICS410  1998/08/25 00:00:00     2968   3.4 |>      165947     2 |>      2913796    34 |>         1472   1.7 |
   16
 CICS410  1998/08/26 08:00:00     2640   3.1 |>      152929     2 |>      2503162    29 |>         1310   1.5 |
   15
 CICS410  1998/08/27 00:00:00     7621   8.8 |--->    485293     6 |-->    5223301    60 |-->       2958   3.4 |>
   23
 CICS410  1998/08/28 00:00:00     8599  10.0 |---->   527382     6 |-->    6064481    70 |-->       3550   4.1 |->
   24
 CICS410  1998/08/29 00:00:00     6277   7.3 |-->     412500     5 |->     4652797    54 |->        2693   3.1 |>
   18
 CICS410  1998/08/30 00:00:00     5798   6.7 |-->     381066     4 |->     4198295    49 |->        2431   2.8 |>
   24
 CICS410  1998/08/31 06:00:00     1032   1.2 |        87262     1 |       447301     5 |           249   0.3 |
   12
 CICS410  1998/09/01 00:00:00     3304   3.8 |>      261395     3 |>      1523743    18 |           766   0.9 |
   18
 CICS410  1998/09/02 00:00:00     8124   9.4 |--->    638219     7 |-->    7554762    87 |--->      3415   4.0 |->
   23
 CICS410  1998/09/03 00:00:00     6873   8.0 |--->    510651     6 |-->    5970614    69 |-->       2982   3.4 |>
   22
 CICS410  1998/09/04 00:00:00     5955   6.9 |-->     442934     5 |->     5136922    59 |->        2527   2.9 |>
   20
 CICS410  1998/09/05 00:00:00     6656   7.7 |-->     499728     6 |-->    5512870    64 |-->       2777   3.2 |>
   21
 CICS410  1998/09/06 00:00:00     1098   1.3 |       103472     1 |       1205489    14 |           694   0.8 |
    9
```

Figure 5-4. The Performance Data Analysis Summary Report

The following is a description of each field in the summary report:

APPLID

VTAM application identification.

DATE

Date in the format YYYY/MM/DD.

TIME

Time in the format HH:MM:SS.

CPU

Total CPU time accumulated by the CICS address space during the summary reporting interval.

%

Percentage of total CPU time of the processor used by the CICS address space during the summary interval.

TRANS

Total number of transactions processed by CICS during the summary reporting interval.

RATE

Number of transactions per second processed by CICS during the summary reporting interval.

I/O

Total number of I/O requests processed by CICS during the summary reporting interval.

RATE

Number of I/O requests per second processed by CICS during the summary reporting interval.

CONN

Total connect time of the CICS address space during the summary reporting interval.

%

Percentage of total connect time of the processor attributable to the CICS address space during the summary interval.

MSG

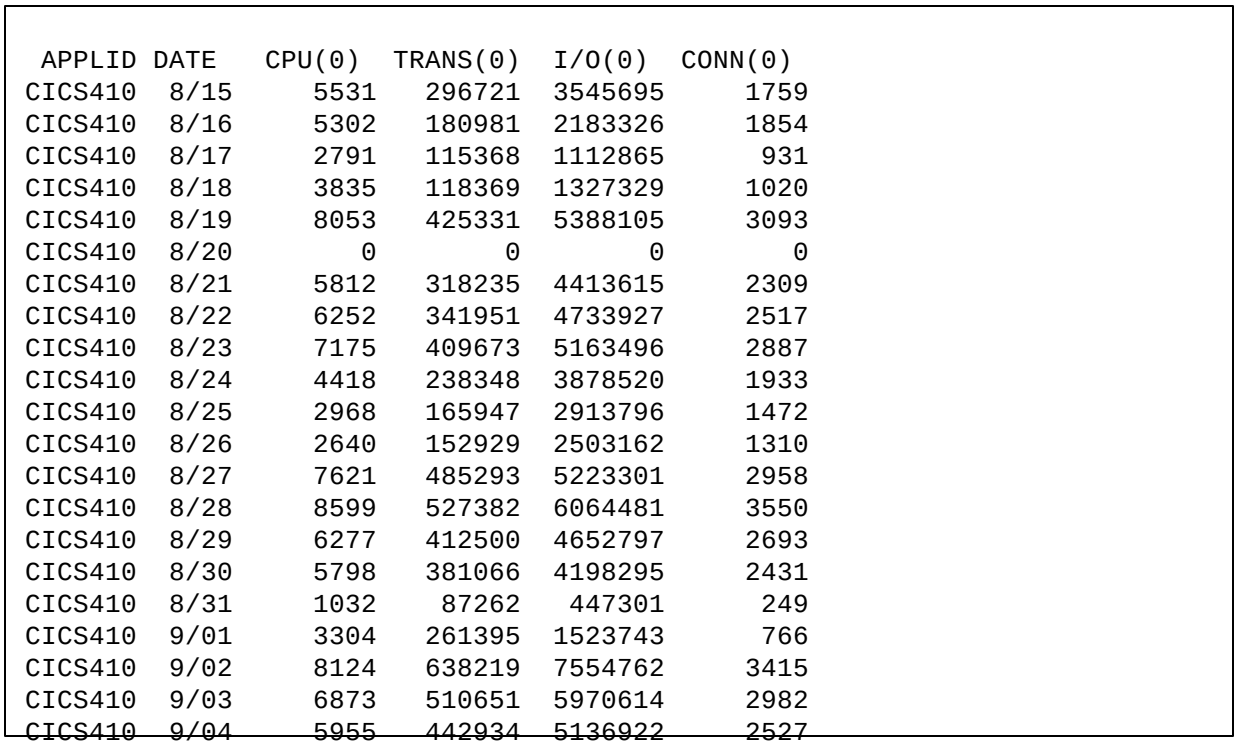
Message field used to indicate errors in the reporting process for the summary reporting

interval.

TOTAL #

Total number of hours, during the summary reporting interval, in which data was collected and reported.

5.8. Download Report



APPLID	DATE	CPU(0)	TRANS(0)	I/O(0)	CONN(0)
CICS410	8/15	5531	296721	3545695	1759
CICS410	8/16	5302	180981	2183326	1854
CICS410	8/17	2791	115368	1112865	931
CICS410	8/18	3835	118369	1327329	1020
CICS410	8/19	8053	425331	5388105	3093
CICS410	8/20	0	0	0	0
CICS410	8/21	5812	318235	4413615	2309
CICS410	8/22	6252	341951	4733927	2517
CICS410	8/23	7175	409673	5163496	2887
CICS410	8/24	4418	238348	3878520	1933
CICS410	8/25	2968	165947	2913796	1472
CICS410	8/26	2640	152929	2503162	1310
CICS410	8/27	7621	485293	5223301	2958
CICS410	8/28	8599	527382	6064481	3550
CICS410	8/29	6277	412500	4652797	2693
CICS410	8/30	5798	381066	4198295	2431
CICS410	8/31	1032	87262	447301	249
CICS410	9/01	3304	261395	1523743	766
CICS410	9/02	8124	638219	7554762	3415
CICS410	9/03	6873	510651	5970614	2982
CICS410	9/04	5955	442934	5136922	2527
CICS410	9/05	6656	499728	5512870	2777
CICS410	9/06	1098	103472	1205489	694

Figure 5-5. The Performance Data Analysis Download Report

The following is a description of each field in the download report:

APPLID

VTAM application identification.

DATE

Date in the format YYYY/MM/DD.

CPU

Total CPU time accumulated by the CICS address space during the summary reporting interval.

TRANS

Total number of transactions processed by CICS during the summary reporting interval.

I/O

Total number of I/O requests processed by CICS during the summary reporting interval.

CONN

Total connect time of the CICS address space during the summary reporting interval.

5.8.1 Graphical Representation of Download Data

The performance data in the AUTOMON/CICS Log Analyzer download report may be used as input to Microsoft Excel or other spreadsheet software. UNICOM Systems will provide users with pre-coded sample spreadsheets which provide the user with a wide variety of ways in which the reported data may be represented.

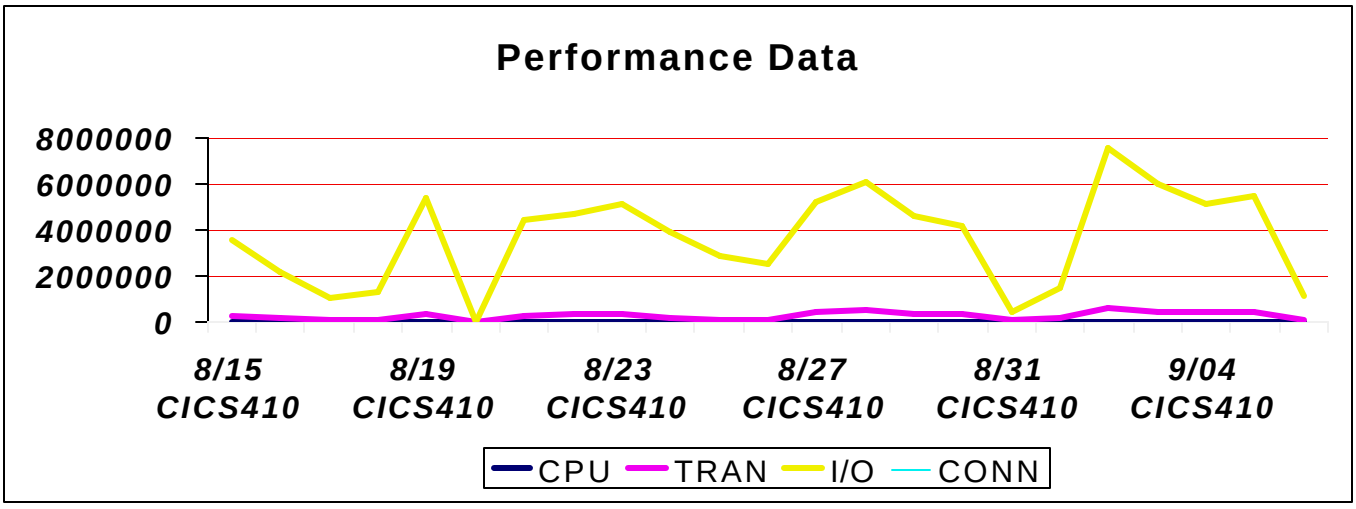


Figure 5-6. Graphical Representation of Performance Data

(End of Section)

Chapter 6. AUTOMON/LA Messages

This Chapter Describes:

Error Message Format

AUTOMON/LA/BATCH Generated Messages

This chapter identifies and explains the messages associated with AUTOMON/LA/BATCH. It can be used to determine the type of message that has been issued, the specific conditions which caused a message to be issued, and the response required.

Each message in this chapter is preceded by an alphanumeric identifier or the form:

CSHnnnnt- or CSHnnnnt

- CSH identifies the message as an AUTOMON/CICS diagnostic message.
- nnnn is a unique four-digit number assigned to each message.
- Messages are accompanied by an eighth character, E.

E indicates that the message shows an error condition where problem determination is required.

- describes that the message will be logged onto the operating system console log.

The documentation for each message in this chapter includes the following information:

Message identifier and text

Message number and text is displayed

Explanation

is the extended description of the condition described by the message text.

System Action

describes the state of AUTOMON/LA/BATCH as a result of the condition indicated by the message.

User Response

is a suggested action which may not be immediate but should be taken by the user to correct the indicated condition.

6.1. Messages

The following messages pertain to the first step of the sample JCL's listed in the previous chapters.

CSH6017E-VSAM OPEN/CLOSE ERROR OCCURRED. FILE-ID=xxxxxxxx

Explanation: An unexpected error condition has occurred during a file control program (FCP) open/close request.

xxxxxxxx - DD card pointing to the file that AUTOMON/LA was unable to open/close.

System Action: AUTOMON/LA/BATCH processing is terminated.

User Response: Ensure that the file pointed to by the DD card is properly defined to a CICS system.

CSH6900E-UNRECOGNIZABLE KEYWORD OR CONT-CHAR "-" MISSING.

Explanation: An error has occurred in the coding of the batch utility command language. Check for a misspelled keyword or a missing continuation character.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6901E-SYSIN DATA ENTERED AFTER THE DELIMITER.

Explanation: A subkeyword or other data has been entered after the closing parenthesis ")" and before the continuation character "-" .

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then

resubmit the batch utility job.

CSH6903E-CSHLIST PROGRAM LOAD FAILED.

Explanation: CSHLIST is unable to load one of its sub-modules. The Data Set Name may be mis-spelled or the job is pointing to a wrong DSN.

System action: The batch utility job terminates processing.

User Response: Check if the correct load library is specified in the job and resubmit the job again. If the problem persists, please report the problem to the UNICOM technical support center.

CSH6910E-"APPLID" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string of VTAM application ids. Check to make sure that all applids in the string are separated by commas. Also check the length of each applid to ensure that it is no longer than 8 characters.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6911E-"DETAIL" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the detail report parameter. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6912E-"FROM" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the from date and time report parameter. The date subparameter must be valid and of the format MM/DD/YY. The time subparameter must be valid and of the format hh:mm:ss. These fields must be separated by a comma.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6913E-"TO" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the to date and time report parameter. The date subparameter must be valid and of the format MM/DD/YY. The time subparameter must be valid and of the format hh:mm:ss. These fields must be separated by a comma.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6914E-"PAGESIZE" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing PAGESIZE parameter. The PAGESIZE parameter must contain a value not lower than ten(10), and not higher than 999.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6915E-"COUNT" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the count report parameter. The count subparameter must be a non-negative numeric value not greater than 9999999.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6916E-"SCAN" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the scan report parameter. FORWARD or BACKWARD are the only valid subkeywords for this parameter and only one of them may be coded.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6917E-"SKIP" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the skip report parameter. The skip subparameter must be a non-negative numeric value not greater than 9999999.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6918E-"SUMMARY" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the summary report parameter. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6919E-"TYPE" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the type report parameter. A,E,I,W, and O are the only valid subkeywords for this parameter and may be coded in any combination.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6920E-GETMAIN REQUEST FAILED.

Explanation: Operating system GETMAIN failure. During the processing of the job, a GETMAIN request failed.

System action: The batch utility job terminates processing.

User Response: Resubmit the job again. If the problem persists, please report the problem to the UNICOM technical support center.

CSH6921E-VSAM POINT ERROR OCCURRED. FILE-ID=AMON001

Explanation: The VSAM POINT macro failed during the job processing.

System action: The batch utility job terminates processing.

User Response: Check the AMON001 file and resubmit the job again. If the problem

persists, please report the problem to the UNICOM technical support center.

CSH6922E-"WTO" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the WTO option. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6923E-"COMPANY" SYNTAX ERROR OR INVALID TEXT.

Explanation: An error was encountered while processing the COMPANY parameter.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6924E-"EXCLUDE" SYNTAX ERROR OR INVALID TEXT.

Explanation: An error was encountered while processing the subkeyword string for the EXCLUDE option. You may enter up to eight(8) messages to exclude. The EXCLUDE parameter is mutually exclusive with the INCLUDE parameter.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6925E-"RETAIN" SYNTAX ERROR OR INVALID TEXT.

Explanation: An error was encountered while processing the subkeyword string for the RETAIN option. The two formats allowed with the RETAIN parameter are either a valid date MM/DD/YY, or a numeric value specifying the number of days. This parameter is mutually exclusive to all other CSHLIST parameters except for the WTO parameter.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6926E-ERROR DELETING RECORDS IN AMON001.

Explanation: While trying to delete a record in the AUTOMON/CICS history log AMON001 an error occurred.

System action: The batch utility job terminates processing.

User Response: resubmit the job. If the problem persists, please report the problem to the UNICOM technical support center.

CSH6929E-*ERROR* INCLUDE/EXCLUDE ARE MUTUALLY EXCLUSIVE.

Explanation: An error was encountered while processing the subkeyword string for the INCLUDE/EXCLUDE option. The error has occured while both option were specified in the job. These options are mutually exclusive.

System action: The batch utility job terminates processing.

User Response: Remove either the INCLUDE or EXCLUDE in the command language then resubmit the batch utility job.

CSH6930E-"MIGRATE" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the MIGRATE option. The syntax of the command line has been entered incorrectly.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6931E-INCORRECT KEY LENGTH. FILE-ID=UMON001

Explanation: An error was encountered while updating the UMON001 file. the key length of the file being updated is invalid.

System action: The batch utility job terminates processing.

User Response: Check the UMON001 file and resubmit the job again. If the problem persists, please report the problem to the UNICOM technical support center.

CSH6932E-"REPLACE" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the subkeyword string for the REPLACE option. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: The batch utility job terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the batch utility job.

CSH6933E-INVALID MIGRATION TABLE SPECIFIED.

Explanation: An error was encountered while processing the subkeyword string for the MIGRATE option. A wrong table ID has been specified. The valid values for the MIGRATE parameter are (*), APPLID, AIT, XLT, THT, DEG, EXC, SRT, USERID. When asterix(*) is coded, no other tables can be specified.

System action: The batch utility job terminates processing.

User Response: Find and correct the table name error in the command language then resubmit the batch utility job.

CSH6934E-UPDATE FAILURE. FILE-ID=UMON001.

Explanation: An error was encountered while updating the UMON001 file.

System action: The batch utility job terminates processing.

User Response: Check the UMON001 file and resubmit the job again. If the problem persists, please report the problem to the UNICOM technical support center.

CSH6935I-iiiiiiii WAS INSERTED IN AUTOMON/CICS ttttttt TABLE.

Explanation: This is an informational message indicating where an item has been inserted.

iiiiiiii - either name of program, transaction, APPLID, or USERID to be inserted.
ttttttt - Table where item was inserted to.

System Action: None.

User Response: None.

CSH6936I-iiiiiiii WAS REPLACED IN AUTOMON/CICS ttttttt TABLE.

Explanation: This is an informational message indicating the item that has been replaced.

iiiiiiii - either name of program, transaction, APPLID, or USERID to be replaced.
ttttttt - Table where item was replaced in.

System Action: None.

User Response: None.

CSH6937I-iiiiiiii NOT REPLACED IN AUTOMON/CICS ttttttt TABLE.

Explanation: This is an informational message indicating the item that has not been replaced.

iiiiiiii - either name of program, transaction, APPLID, or USERID not replaced.
ttttttt - Table where item was not replaced.

System Action: None.

User Response: None.

All messages of the format CSH68xxE pertain to the final step in the sample JCL's previously listed.

CSH6800E-*ERROR* OPEN FAILURE. FILE=xxxxxxxx

Explanation: An unexpected error condition has occurred during a file control program (FCP) open/close request.

xxxxxxxx - DD card pointing to the file that AUTOMON/LA was unable to open/close.

System Action: AUTOMON/LA/BATCH processing is terminated.

User Response: Ensure that the file pointed to by the DD card is properly defined to a CICS system.

CSH6801E-UNRECOGNIZABLE KEYWORD OR CONT-CHAR "-" MISSING.

Explanation: An error has occurred in the coding of the batch utility command language. Check for a misspelled keyword or a missing continuation character.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6802E-SYSIN DATA ENTERED AFTER THE DELIMITER.

Explanation: A subkeyword or other data has been entered after the closing parenthesis ")" and before the continuation character "-" .

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6804E-ERROR ATTEMPTING TO GETMAIN TABLE STORAGE.

Explanation: AUTOMON/LA was unable to getmain storage required to finish its processing of the AUTOMON/CICS history database.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Resubmit the AUTOMON/LA/BATCH job when more storage is available in the system. (This error will most likely be encountered if the CICS system is short on storage)

CSH6806E-"APPLID" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string of VTAM application ids. Check to make sure that all applids in the string are separated by commas. Also check the length of each applid to ensure that it is no longer than 8 characters.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6807E-"MSG" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string of AUTOMON/CICS message ids. Check to make sure that all message ids in the string are separated by commas. Also check the length of each message id to ensure that it is no longer than 8 characters long.
example: MSG(CSH62*,CSH6016W), -

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6808E-"TRANID" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string of CICS transaction ids. Check to make sure that all transaction ids in the string are separated by commas. Also check the length of each transaction id to ensure that it is no longer than 4 characters.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6809E-"TERMID" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string of CICS terminal ids. Check to make sure that all terminal ids in the string are separated by commas. Also check the length of each terminal id to ensure that it is no longer than 4 characters.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6810E-"ABEND CODE" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string of CICS user abend codes. Check to make sure that all abend codes in the string are separated by commas. Also check the length of each abend code to ensure that it is no longer than 4 characters.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6811E-"DETAIL" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the detail report parameter. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6812E-"FROM" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the from date and time report parameter. The date subparameter must be valid and of the format YYYY/MM/DD. The time subparameter must be valid and of the format hh:mm:ss. These fields must be separated by a comma.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6813E-"TO" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the to date and time report parameter. The date subparameter must be valid and of the format YYYY/MM/DD. The time subparameter must be valid and of the format hh:mm:ss. These fields must be separated by a comma.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6814E-"PAGESIZE" SYNTAX ERROR OR INVALID VALUE.

Explanation: An error was encountered while processing the PAGESIZE parameter. The PAGESIZE parameter must contain a value not lower then ten(10), and not higher then 999.

System action: AUTOMON/LA/BATCH terminates processing.

User response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6815E-"COUNT" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the count report parameter. The count subparameter must be a non-negative numeric value not greater than 9999999.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6817E-"SKIP" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the skip report parameter. The skip subparameter must be a non-negative numeric value not greater than 9999999.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6818E-"SUMMARY" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the summary report parameter. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6820E-GETMAIN REQUEST FAILED.

Explanation: Operating System GETMAIN failure. During the process of the job a GETMAIN request failed.

System action: AUTOMON/LA/BATCH terminates processing.

User response: Resubmit the AUTOMON/LA/BATCH job again. If the problem persists, please report the problem to the UNICOM Technical Support Center.

CSH6822E-"WTO" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the WTO option. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6823E-"COMPANY" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the company name report parameter. The maximum allowable length for the company name is 42 characters.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6824E-"SYNOPSIS" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the synopsis report parameter. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6825E-*ERROR* OPEN FAILURE. FILE=AMON501

Explanation: An error was encountered while attempting to open the security access file.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Ensure that the file pointed to by the DD card is properly defined to a CICS system.

CSH6826E-AMONLA/BATCH PRODUCT RECORD VERIFICATION FAILURE.

Explanation: The AUTOMON/LA/BATCH security program could not initialize correctly.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6827E-AMONLA/BATCH PRODUCT NOT LICENSED.

Explanation: The AUTOMON/LA/BATCH security program could not initialize correctly.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6828E-AMONLA/BATCH INVALID REQUEST.

Explanation: The AUTOMON/LA/BATCH security program could not initialize correctly.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6829E-AMONLA/BATCH PRODUCT EXPIRED.

Explanation: The AUTOMON/LA/BATCH security program could not initialize correctly.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6830E-AMONLA/BATCH INVALID EXPIRATION DATE.

Explanation: The AUTOMON/LA/BATCH security program could not initialize correctly.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6831E-AMONLA/BATCH CPU NOT LICENSED.

Explanation: An error condition has occurred during the AUTOMON/LA/BATCH security program initialization.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6832E-AMONLA/BATCH PRODUCT VERIFICATION FAILURE.

Explanation: An error condition has occurred during the AUTOMON/LA/BATCH security program initialization.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Contact your UNICOM Support Center for assistance with problem resolution.

CSH6833E-*ERROR* INVALID SORT PARAMETER IGNORED, PARM=

Explanation: An invalid sort parameter has been coded by the user as one of the "*SORTBY*" parameters. The invalid sort parameter coded is ignored. Verify that the parameter coded reflects the sort option desired.

System action: AUTOMON/LA/BATCH processing continues however the sort results may not reflect the desired options.

User Response: Verify that the "*SORTBY*" subkeyword has been coded correctly.

CSH6834-*ERROR* SORT FAILURE, RC=

Explanation: An error has occurred while processing the call to sort the input dataset. The return code from the parameter coded is ignored. Verify that the parameter coded reflects the sort option desired.

System action: AUTOMON/LA/BATCH processing continues however the sort results may not reflect the desired options.

User Response: Verify that the "*SORTBY*" subkeyword has been coded correctly.

CSH6835-SYNTAX ERROR OR INVALID FORMAT. SYSIN PARM=

Explanation: An invalid subkeyword has been coded by the user as one of the SYSIN parameters. The invalid subkeyword is displayed in the error message.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6836E-"BY" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the "*BY*" report parameter. The "*BY*" report parameter defines the unit of time over which AUTOMON/CICS Log analyzer will summarize the report data. Valid codes for the "*BY*" report parameter are H for hourly, D for daily, W for weekly, M for monthly, Y for yearly and a customized reporting interval specified in the number of days (1 to 9999999). The default value for "BY" is hourly reporting.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6837-"SELECT" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the select report parameter or one of it's sub-parameters. CPU, TRAN, I/O or CONN are the only valid subkeywords for this parameter. Each subkeyword may optionally have two additional sub-parameters.

Scale - The 1st positional sub-parameter defines the maximum value reported(Scale) in the graphical display of the performance data summary report. Valid values for the scale are 1-100. The default scale is 100%.

Unit - The 2nd positional sub-parameter defines the unit of data being reported in the summary and download reports. Valid values for Unit are K for thousands, M for millions, B for billions, T for trillions or a customized reporting unit (1 to 9999999). The default reporting unit is 1.

If a sub-parameter is coded incorrectly additional CSH6837 messages are issued which explain which sub-parameter has been coded incorrectly.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

CSH6838E-"DOWNLOAD" SYNTAX ERROR OR INVALID FORMAT.

Explanation: An error was encountered while processing the subkeyword string for the download report parameter. YES or NO are the only valid subkeywords for this parameter and only one of them may be coded.

System action: AUTOMON/LA/BATCH terminates processing.

User Response: Find and correct the syntax error in the command language then resubmit the AUTOMON/LA/BATCH job.

Chapter 7. Installation Considerations

This Chapter Describes:

Hardware Requirements

Software Requirements

Disk Storage

Installation Considerations

Upon receipt of the distribution tape please check that you have the right tape. You should also call the UNICOM SUPPORT CENTER at (818) 838-0606 prior to installation for the latest program temporary fixes (PTFs) or installation changes for this release of AUTOMON/LA/BATCH.

7.1. Hardware Requirements

AUTOMON/LA/BATCH operates on any IBM System/370, 303x series, 308x series, 309x series, 4300 series, or ES9000 series or on a virtual machine supported by VM/370.

You also need sufficient I/O devices to support the requirements for AUTOMON/LA/BATCH libraries, data sets, input, and output.

AUTOMON/LA/BATCH requires one cartridge tape drive or 9-track tape drive to unload the distribution tape.

7.2. Software Requirements

AUTOMON/LA/BATCH Version 4 Release 2 Modification 0 operates under one of the following operating system:

! MVS/SP
! MVS/XA
! MVS/ESA
! OS/390

7.3. Disk Storage

AUTOMON/LA/BATCH requires approximately twenty cylinders of 3390 DASD

space for all required datasets.

Appendices

This Appendices Describe:

AUTOMON/LA/BATCH Default Values

AUTOMON/LA/BATCH INSTLIB Contents

AUTOMON/LA/BATCH Sample JCL

APPENDIX A. Installation Library Contents

UNICOM.INSTLIB CONTENTS

MEMBER	TYPE	DESCRIPTION
*@68MNP	JCL	Performance Data Analysis Utility Job Stream
*@68MSG	JCL	Message Analysis Utility Job Stream
*@68TRAN	JCL	Transaction Abend Utility Job Stream
*@68SVSA	JCL	Storage Violation/System Abend Utility Job Stream
*@68A501	JCL	Systems Definition File
*@68CMACD	JCL	CICS Message File
*@68IEBCO	JCL	Installation of Product Libraries
*@68IEBC1	JCL	Installation of Product Libraries
*@68IVMNP	JCL	Installation Verification for Performance Data
*@68IVMSG	JCL	Installation Verification for Message Utility
*@68IVSV	JCL	Installation Verification for Storage Violations
*@68IVTRN	JCL	Installation Verification for Transaction Abends

* - A user modification is required on these members. Change these members to suit the requirement of your installation. (eg. DD names, VOLSERs, dataset name prefix etc.)

APPENDIX B. Default Command Values

DEFAULT COMMAND VALUES

COMMAND	DEFAULT	DESCRIPTION
ABCD	(*)	Transaction Abends included in report
APPLID	(*)	VTAM applids included in report
BY	(H)	Summary reporting interval
COMPANY	(YOUR COMPANY NAME)	Company Name in report header
COUNT	(9999999)	Maximum line count
DETAIL	(YES)	Print detail report
DOWNLOAD	(YES)	Print download report
EXCLUDE	(NONE)	AUTOMON messages excluded from report
FROM	(0000/01/01,00:00:00)	Starting date and time to be reported
MSG	(*)	AUTOMON messages to include in report
PGM	(*)	Program names to include in report
SABCD	(*)	System Crashes and/or Stg. Violations in report
SCAN	(FORWARD)	VSAM access direction
SELECT	(CPU,TRAN,I/O,CONN)	Type of performance data to be summarized
SKIP	(0)	Number of records to bypass
SUMMARY	(YES)	Print summary report
SYNOPSIS	(YES)	Print synopsis report
TERM	(*)	Terminal IDs to include in report
TO	(2099/12/31,23:59:59)	Ending date and time to be reported
TRAN	(*)	Transaction IDs to include in report
TYPE	(*)	AUTOMON message types to include in report
WTO	(YES)	Keywords will be logged to system console

* - Some of these keywords are not applicable to certain reports. Please consult the

users guide for a list of available commands for the report that you wish to produce.

APPENDIX C. AUTOMON/LA/BATCH Sample JCL

This JCL will unload the UNICOM installation library from tape.

```
//UNLOAD   JOB  ,'UNLOAD AUTOMON/LA INSTLIB LIBRARY',CLASS=A
//IEBCOPY  EXEC PGM=IEBCOPY
//SYSPRINT DD   SYSOUT=*
//IN1      DD   UNIT=TAPE,DSN=UNICOM.INSTLIB,
//              DISP=OLD,LABEL=(1,SL,EXPDT=98000),
//              VOL=(,RETAIN,SER=UNICOM)
//OUT1     DD   UNIT=uuuu,DSN=UNICOM.INSTLIB,
//              DISP=(,CATLG),
//              DCB=(RECFM=FB,LRECL=80,BLKSIZE=4000),
//              SPACE=(CYL,(1,1,20)),VOL=SER=vvvvvv
//SYSIN    DD   *
  C I=((IN1,R)),O=OUT1
/*
```

UNLOAD AUTOMON/LA/BATCH PRODUCT LIBRARIES (@68IEBC0)

This JCL will install AUTOMON/LA/BATCH product libraries for CICS releases CICS/ESA 3.2.1 and later.

```
//UNLOAD   JOB  ,'UNLOAD AUTOMON/LA PRODUCT LIBRARIES',CLASS=A
//IEBCOPY  EXEC PGM=IEBCOPY
//SYSPRINT DD   SYSOUT=*
//IN1      DD   UNIT=TAPE,DSN=CSH.AMONLA.V420.LOADLIB,
//              DISP=OLD,LABEL=(9,SL,EXPDT=98000),
//              VOL=(,RETAIN,SER=UNICOM)
//IN2      DD   UNIT=TAPE,DSN=CSH.AMONLA.V420.IVPLIB,
//              DISP=OLD,LABEL=(10,SL,EXPDT=98000),
//              VOL=(,RETAIN,SER=UNICOM)
//OUT1     DD   UNIT=uuuu,DSN=UNICOM.AMONLA.V420.LOADLIB,
//              DISP=(,CATLG),DCB=(BLKSIZE=4000),
//              SPACE=(CYL,(2,1,30)),VOL=SER=vvvvvv
//OUT2     DD   UNIT=uuuu,DSN=UNICOM.AMONLA.V420.IVPLIB,
//              DISP=(,CATLG),
//              DCB=(RECFM=FBA,LRECL=133,BLKSIZE=3990),
//              SPACE=(TRK,(3,2,2)),VOL=SER=vvvvvv
//SYSIN    DD   *
  C I=((IN1,R)),O=OUT1
  C I=((IN2,R)),O=OUT2
/*
```

UNLOAD AUTOMON/LA/BATCH PRODUCT LIBRARIES (@68IEBC1)

This JCL will install AUTOMON/LA/BATCH product libraries for CICS releases prior to CICS/ESA 3.2.1.

```
//UNLOAD   JOB  ,'UNLOAD AUTOMON/LA PRODUCT LIBRARIES',CLASS=A
//IEBCOPY  EXEC PGM=IEBCOPY
//SYSPRINT DD   SYSOUT=*
//IN1      DD   UNIT=TAPE,DSN=CSH.AMONLA.V420.LOADLIB,
//              DISP=OLD,LABEL=(9,SL,EXPDT=98000),
//              VOL=(,RETAIN,SER=UNICOM)
//IN2      DD   UNIT=TAPE,DSN=CSH.AMONLA.V420.IVPLIB,
//              DISP=OLD,LABEL=(10,SL,EXPDT=98000),
//              VOL=(,RETAIN,SER=UNICOM)
//IN3      DD   UNIT=TAPE,DSN=CSH.AMONLA.V420.CSHCMACD,
//              DISP=OLD,LABEL=(11,SL,EXPDT=98000),
//              VOL=(,RETAIN,SER=UNICOM)
//OUT1     DD   UNIT=uuuu,DSN=UNICOM.AMONLA.V420.LOADLIB,
//              DISP=(,CATLG),DCB=(BLKSIZE=4000),
//              SPACE=(CYL,(2,1,30)),VOL=SER=vvvvvv
//OUT2     DD   UNIT=uuuu,DSN=UNICOM.AMONLA.V420.IVPLIB,
//              DISP=(,CATLG),
//              DCB=(RECFM=FBA,LRECL=133,BLKSIZE=3990),
//              SPACE=(TRK,(3,2,2)),VOL=SER=vvvvvv
//OUT3     DD   UNIT=uuuu,DSN=UNICOM.AMONLA.V420.CSHCMACD,
//              DISP=(,CATLG),
//              DCB=(RECFM=V,LRECL=30646,BLKSIZE=30650),
//              SPACE=(CYL,(10,1,30)),VOL=SER=vvvvvv
//SYSIN    DD   *
  C I=((IN1,R)),O=OUT1
  C I=((IN2,R)),O=OUT2
  C I=((IN3,R)),O=OUT3
/*
```

DEFINE SYSTEM DEFINITION FILE (@68A501)

This sample JCL can be used to define AUTOMON/LA/BATCH to a dummy UNICOM/CENTRAL Systems Definition File. This JCL should only be used by users who do not have UNICOM/CENTRAL at their installation. UNICOM/CENTRAL users should register the product through the ADMINISTRATION function of UNICOM/CENTRAL

```
//CSHVSAM  JOB  ,'IDCAMS-AUTOMON/LA/BATCH',CLASS=A
//DEFINE   EXEC PGM=IDCAMS,REGION=4096K
//SYSPRINT DD  SYSOUT=*
//SYSIN    DD  *
  DELETE UNICOM.CENTRAL.AMON501
  DEFINE CLUSTER (NAME(UNICOM.CENTRAL.AMON501) -
            SHR(3 3)) -
      DATA (NAME(UNICOM.CENTRAL.AMON501.DATA) UNIQUE -
            CYLINDERS(1 1) VOLUME(vvvvvv) CISZ(8192) -
            FSPC(10 10) KEYS(10 0) RECSZ(256 16000)) -
      INDEX (NAME(UNICOM.CENTRAL.AMON501.INDEX) UNIQUE -
            CYLINDERS(1 1) VOLUME(vvvvvv)
  REPRO INFILE(INITIAL)  OUTDATASET(UNICOM.CENTRAL.AMON501)
//INITIAL  DD   *
L 68                          072954F74684209408ME03/31/9512/31/9910030AS00
```

CICS MESSAGE FILE (@68CMACD)

This sample JCL can be used to define the CICS message database required by AUTOMON/LA/BATCH. This JCL should only be used if your installation's CICS release is prior to 3.2.1.

```
//CSHCMACD JOB (0,0000),'IDCAMS AUTOMON/LA',CLASS=A,NOTIFY=AMON
//*************************************************************
//|          THIS JCL CREATES THE DFHCMACD MESSAGE FILE      |*
//*************************************************************
//CSHIDCAM EXEC PGM=IDCAMS,REGION=1M
//SYSPRINT DD   SYSOUT=*
//SYSIN    DD   *
  DELETE CICSvvv.DFHCMACD
  SET MAXCC=0
/*
//CSHBR14  EXEC PGM=IEFBR14
//DFHCMACD DD   DISP=(NEW,CATLG,DELETE),DSN=CICSvvv.DFHCMACD,
//              UNIT=SYSDA,VOL=SER=vvvvvv,
//              DCB=(BLKSIZE=6160,LRECL=80,RECFM=FB,DSORG=PS),
//              SPACE=(TRK,(1,1))
//CSHCMACD EXEC PGM=IDCAMS,REGION=1M
//SYSPRINT DD   SYSOUT=*
//AMSDUMP  DD   SYSOUT=*
//SYSIN    DD   *
  DELETE CICSvvv.DFHCMACD
  SET MAXCC=0
  DEFINE CLUSTER ( NAME( CICSvvv.DFHCMACD )          -
                   CYL(10,2)                         -
                   KEYS( 9 0 )                       -
                   INDEXED                           -
                   VOLUME ( vvvvvv )                 -
                   RECORDSIZE( 8192 30646 )          -
                   FREESPACE( 5 5 )                  -
                   SHAREOPTIONS( 2 ))                -
  INDEX             ( NAME( CICSvvv.DFHCMACD.INDEX ))  -
  DATA              ( NAME( CICSvvv.DFHCMACD.DATA ))
  REPRO INDATSET(CSH.AMONLA.V420.CSHCMACD(DFHCMACD)) -
        OUTDATASET(CICSvvv.DFHCMACD)
/*
```

UNICOM.INSTLIB(@68TRAN)

This sample job stream can be used to print AUTOMON/LA/BATCH transaction abend reports.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//AMON001  DD    DISP=SHR,DSN=AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
 WTO(YES), -                    WRITE TO OPERATOR MSG....YES|NO
 APPLID(*), -                   APPLICATION ID(S).......UP TO 8
 DETAIL(YES), -                 PRINT DETAIL REPORT......YES|NO
 SUMMARY(NO), -                 PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -   FROM........YYYY/MM/DD,HH:MM:SS
 TO(2099/12/31,23:59:59), -     TO..........YYYY/MM/DD,HH:MM:SS
 COUNT(9999999), -              MAX RECORD SELECTIONS.0-9999999
 SKIP(0)                        BYPASS................0-9999999
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//SORTWK01 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
//SYSOUT   DD    SYSOUT=*
```

```
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
/*
```

UNICOM.INSTLIB(@68TRAN) cont.

```
//*************************************************************
//*+=========================================================+*
//*|     PRINT AUTOMON/LA/BATCH TRANSACTION ABEND REPORT     |*
//*+=========================================================+*
//*************************************************************
//REPORT   EXEC  PGM=CSH68TA,COND=(4,LT)
//STEPLIB  DD    DISP=SHR,DSN=AMONLA.V420.CICS311.LOADLIB        //AMON002  DD
   DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR.DSN=CICS311.AMON501
//DFHCMACD DD    DISP=SHR,DSN=CICSvvv.DFHCMACD
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD    *
 WTO(YES), -                    WRITE TO OPERATOR MSG....YES|NO
 COMPANY(YOUR COMPANY NAME), -  YOUR COMPANY NAME......UP TO 42
 APPLID (*), -                   APPLICATION ID(S).......UP TO 8
 TRAN(*), -                     TRANSACTION ID(S)......UP TO 12
 TERM(*), -                     TERMINAL ID(S).........UP TO 12
 ABCD (*), -                     ABEND CODE(S)..........UP TO 12
 PGM(*), -                      PROGRAM NAME(S).........UP TO 8
 SYNOPSIS(YES), -               PRINT SYNOPSIS REPORT....YES|NO
 DETAIL(YES), -                 PRINT DETAIL REPORT......YES|NO
 SUMMARY(YES), -                PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -   FROM........YYYY/MM/DD,HH:MM:SS
 TO(2099/12/31,23:59:59), -     TO..........YYYY/MM/DD,HH:MM:SS
 COUNT(9999999), -              MAX RECORD SELECTIONS.0-9999999
 SKIP(0)                        BYPASS................0-9999999
/*
```

UNICOM.INSTLIB(@68SVSA)

This sample job stream can be used to print AUTOMON/LA/BATCH storage violation and system crash condition reports.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//AMON001  DD    DISP=SHR,DSN=AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
 WTO(YES), -                    WRITE TO OPERATOR MSG....YES|NO
 APPLID (*), -                   APPLICATION ID(S).......UP TO 8
 DETAIL(YES), -                 PRINT DETAIL REPORT......YES|NO
 SUMMARY(NO), -                 PRINT SUMMARY REPORT.....YES|NO
 FROM(1900/01/01,00:00:00), -   FROM........YYYY/MM/DD,HH:MM:SS
 TO(2099/12/31,23:59:59), -     TO..........YYYY/MM/DD,HH:MM:SS
 COUNT(9999999), -              MAX RECORD SELECTIONS.0-9999999
 SKIP(0)                        BYPASS................0-9999999
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//SORTWK01 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
//SYSOUT   DD    SYSOUT=*
```

```
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
/*
```

UNICOM.INSTLIB(@68SVSA) cont.

```
//*************************************************************
//*+=========================================================+*
//*| PRINT AUTOMON/LA STORAGE VIOLATION/SYSTEM CRASH REPORT  |*
//*+=========================================================+*
//*************************************************************
//REPORT   EXEC  PGM=CSH68SV,COND=(4,LT)
//STEPLIB  DD    DISP=SHR,DSN=AMONLA.V420.CICS311.LOADLIB
//AMON002  DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR,DSN=CICS311.AMON501
//DFHCMACD DD    DISP=SHR,DSN=CICSvvv.DFHCMACD
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD    *
  WTO(YES), -                    WRITE TO OPERATOR MSG....YES|NO
  COMPANY(YOUR COMPANY NAME), - YOUR COMPANY NAME......UP TO 42
  APPLID (*), -                   APPLICATION ID(S).......UP TO 8
  SABCD(*), -                    SYSTEM ABENDS OR *SVD*.UP TO 12
  TRAN(*), -                     TRANSACTION ID(S)......UP TO 12
  TERM(*), -                     TERMINAL ID(S).........UP TO 12
  PGM(*), -                      PROGRAM NAME(S).........UP TO 8
  DETAIL(YES), -                 PRINT DETAIL REPORT......YES|NO
  SUMMARY(YES), -                PRINT SUMMARY REPORT.....YES|NO
  FROM(1900/01/01,00:00:00), -   FROM........YYYY/MM/DD,HH:MM:SS
  TO(2099/12/31,23:59:59), -     TO..........YYYY/MM/DD,HH:MM:SS
  COUNT(9999999), -              MAX RECORD SELECTIONS.0-9999999
  SKIP(0)                        BYPASS................0-9999999
/*
```

UNICOM.INSTLIB(@68MSG)

This sample Job stream can be used to print AUTOMON/LA/BATCH message analysis reports.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|          ACCESS AUTOMON/CICS HISTORY DATABASE           |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//AMON001  DD    DISP=SHR,DSN=AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD    *
  WTO(YES), -                   WRITE TO OPERATOR MSG....YES|NO
  APPLID(*), -                  APPLICATION ID(S).......UP TO 8
  DETAIL(YES), -                PRINT DETAIL REPORT......YES|NO
  SUMMARY(NO), -                PRINT SUMMARY REPORT.....YES|NO
  FROM(1900/01/01,00:00:00), -  FROM........YYYY/MM/DD,HH:MM:SS
  TO(2099/12/31,23:59:59), -    TO..........YYYY/MM/DD,HH:MM:SS
  COUNT(9999999), -             MAX RECORD SELECTIONS.0-9999999
  SKIP(0), -                    BYPASS................0-9999999
  SCAN(FORWARD), -              DIRECTION....(FORWARD|BACKWARD)
  TYPE(*)                       RECORD SELECTIONS...(A,E,I,W,O)
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//SORTWK01 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
```

```
//SYSOUT   DD    SYSOUT=*
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
/*
```

UNICOM.INSTLIB(@68MSG) cont.

```
//*+=========================================================+*
//*|      PRINT AUTOMON/LA/BATCH MESSAGE ANALYSIS REPORT     |*
//*+=========================================================+*
//REPORT   EXEC  PGM=CSH68AM,REGION=6M,COND=(4,LT)
//STEPLIB  DD    DISP=SHR,DSN=AMONLA.V420.CICS311.LOADLIB
//AMON002  DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG1
//AMON003  DD    DISP=SHR,DSN=CICS311.AMON501
//UMON001  DD    DISP=SHR,DSN=CICS311.UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSDET   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSPRO   DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD    *
  WTO(YES), -                    WRITE TO OPERATOR MSG....YES|NO
  COMPANY(YOUR COMPANY NAME), - YOUR COMPANY NAME......UP TO 42
  APPLID(*), -                   APPLICATION ID(S).......UP TO 8
  MSG(*), -                      AUTOMON MESSAGE(S)......UP TO 8
  SYNOPSIS(YES), -               PRINT SYNOPSIS REPORT....YES|NO
  DETAIL(YES), -                 PRINT DETAIL REPORT......YES|NO
  SUMMARY(YES), -                PRINT SUMMARY REPORT.....YES|NO
  FROM(1900/01/01,00:00:00), -   FROM........YYYY/MM/DD,HH:MM:SS
  TO(2099/12/31,23:59:59), -     TO..........YYYY/MM/DD,HH:MM:SS
  COUNT(9999999), -              MAX RECORD SELECTIONS.0-9999999
  SKIP(0)                        BYPASS................0-9999999
/*
```

UNICOM.INSTLIB(@68MNP)

This sample Job stream can be used to print AUTOMON/LA/BATCH performance data analysis reports.

```
//AMONLA   JOB (0,0000),'AUTOMON/LA/BATCH',CLASS=0,NOTIFY=AMON
//*************************************************************
//*+=========================================================+*
//*|           COLLECT PERFORMANCE AND CAPACITY PLANNING DATA  |*
//*+=========================================================+*
//*************************************************************
//CSHLIST  EXEC  PGM=CSHLIST,REGION=4096K
//STEPLIB  DD    DISP=SHR,DSN=AUTOMON.V420.CICS311.LOADLIB
//AMON001  DD    DISP=SHR,DSN=AUTOMON.SYS001
//UMON001  DD    DISP=SHR,DSN=UNIMON.SYS001
//SYSPRINT DD    SYSOUT=*,DCB=BLKSIZE=133
//SYSOUT   DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG
//SYSIN    DD *
 APPLID(*), -                APPLICATION ID(S).............(UP TO 8)
 INCLUDE(CSH6693*), -        MESSAGES TO EXCLUDE...........(UP TO 8)
 DETAIL(YES), -              PRINT DETAIL REPORT............(YES³NO)
 SUMMARY(NO), -              PRINT SUMMARY REPORT...........(YES³NO)
 FROM(1900/01/01,00:00:00), - FROM.............(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -  TO................(YYYY/MM/DD,HH:MM:SS)
 COUNT(9999999), -           MAX RECORD SELECTION..........(0-9999999)
 PAGESIZE(0), -              PAGE SIZE....ONLY PRINT INITIAL REPORT HDR
 SKIP(0), -                  # OF RECORDS TO BE BYPASSED....(0-9999999)
 SCAN(FORWARD), -            DIRECTION.............(FORWARD³BACKWARD)
 TYPE(*)                     RECORD SELECTIONS.............(A,E,I,W,O)
/*
//*************************************************************
//*+=========================================================+*
//*|    SORT OUTPUT FROM CSHLIST BY APPLID, DATE AND TIME    |*
//*+=========================================================+*
//*************************************************************
//SORT     EXEC  PGM=SORT,REGION=40M,COND=(4,LT)
//SORTWK01 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK02 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTWK03 DD    UNIT=uuuu,SPACE=(CYL,20),VOL=SER=vvvvvv
//SORTIN   DD    DISP=(OLD,DELETE,DELETE),DSN=&&LOG
//SORTOUT  DD    DISP=(,PASS),UNIT=uuuu,VOL=SER=vvvvvv,
//               SPACE=(CYL,(20,1),RLSE),DSN=&&LOG1
//SYSPRINT DD    SYSOUT=*
```

```
//SYSOUT   DD    SYSOUT=*
//SYSIN    DD    *
 SORT FIELDS=(2,31,BI,A),EQUALS
/*
```

UNICOM.INSTLIB(@68MNP) cont.

```
//*+=================================================================+*
//*|           PRINT AMONLA/BATCH PERFORMANCE REPORT                 |*
//*+=================================================================+*
//LA      EXEC PGM=CSH68MN,REGION=40M
//*
//STEPLIB  DD DISP=SHR,DSN=AUTOMON.LA.V420.LOADLIB   <--AMON/LA LOADLIB
//AMON002  DD DISP=(OLD,DELETE,DELETE),DSN=&&LOG1    <- INPUT TO AMONLA
//AMON003  DD DISP=SHR,DSN=UNICOM.CENTRAL.AMON501    <---- LICENCE FILE
//SYSPRINT DD SYSOUT=*,DCB=BLKSIZE=133
//SYSSUM   DD SYSOUT=*,DCB=BLKSIZE=133
//SYSDET   DD SYSOUT=*,DCB=BLKSIZE=133
//SYSDOWN  DD SYSOUT=*,DCB=BLKSIZE=133
//SYSIN    DD *
 WTO(YES), -
 COMPANY(YOUR COMPANY NAME), -
 APPLID(*), -                APPLICATION ID(S).................(UP TO 8)
 DETAIL(NO), -               PRINT DETAIL REPORT...............(YES|NO)
 SUMMARY(YES), -             PRINT SUMMARY REPORT..............(YES|NO)
 FROM(1900/01/01,00:00:00), - FROM.................(YYYY/MM/DD,HH:MM:SS)
 TO(2099/12/31,23:59:59), -  TO...................(YYYY/MM/DD,HH:MM:SS)
 BY(D), -                    BY.....................(H|D|W|M|Y|1-999)
 SELECT(CPU,TRAN,I/O,CONN), - DATA TYPE.....ANY COMB(CPU,TRAN,I/O,CONN)
 DOWNLOAD(YES), -            DOWNLOAD TO FLATFILE..............(YES|NO)
 PAGESIZE(52), -             MAX RECORDS PER PAGE..............(0-999)
 COUNT(9999999), -           MAX RECORD SELECTION...........(0-9999999)
 SKIP(0)                     # OF RECORDS TO BE BYPASSED....(0-9999999)
/*
```

INDEX

Reader's Comments

AUTOMON/LA/BATCH User's Guide GP68-0420-1/980915

Fax: (818) 838-0776

Use this form to tell us what you think about this manual. If you have found errors in it, or you want to express your opinion about it or make suggestions for improvement, this is the form to use. To help us produce books that meet your need, your comments will be sent to the Research and Development department for review and appropriate action.

When you send comments to UNICOM Systems, Inc. U.S.A., you grant UNICOM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you.

Thank you for your time and effort. Be sure to print your name and phone number below if you would like a reply.

Name: _____ Company: _____

Phone: _____ Title: _____