Honeywell Level 66 system

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I. INTRODUCTION

Within the Honeywell Level 66 system a priviledged program provides time sharing service to remote users. To effectively provide a wide array of services to a varied user load, the time sharing system (TSS) has two levels of customer support: 1) executive service and 2) subsystem service.

The TSS executive can be thought of as a subordinate, Miniature operating system running within the constraints of the GCOS supervisor. It is impractical for a vast set of service programs to be concurrently resident in memory so only those more permanent, recurring and critical functions are contained in the executive.

The TSS subsystems are free standing units that provide more of the interactive support for the users. In a sense, the various subsystems can be thought of as extensions to the core of services provided by the executive. The subsystems perform the necessary interface functions required to build text, edit files, submit jobs, examine output and manipulate file structures (to name a few features).

During the course of a user's entire session many subsystems are called on behalf of the user by the executive level detection of certain conditions, and other subsystems are called in response to user entered data or commands at the terminal.

It is possible for a site to record system behavior on its statistic collection file (SCF). A particular type of SCF record is known as the TYPE-19 or TSS Instrumentation Record. The TYPE-19 record contains selected data gathered by the executive on behalf of each user. All users in the TSS environment have a working space maintained by the executive called the User Status Table (UST). As each user session proceeds and the various subsystems invoked for or by the user terminate, an optional site parameter setting may cause the selected UST fields to be written to the SCF file along with some executive data. The buffering of TYPE-19 records to the accounting file (SCF) is enabled by altering the contents of a cell (TSSAS) within the TSS executive communication region module (TSSA) to a non-zero value.

The TYPE-19 Analysis package is an assembly level program capable of gathering all the TSS TYPE-19 records together for processing. The output from the program's processing of SCF records can take several detailed forms as directed by various input parameters. The output from the program is intended for use by those persons maintaining, measuring, and enhancing the TSS executive and subsystems. The detailed nature of the reports makes the output more suited to site analysts rather than upper levels of management; however, the generalized reduction of information must be based on detailed data.

II. EXECUTION PARAMETERS

The TYPE-19 Analysis package is a simple activity to run because all file handling can be defaulted to program control or user specified. The program accepts two files as inputs - 1) AT is the accounting tape(s) and 2) I* is the input option file. A primary work file (XD) is established by the JCL or program to contain only the TYPE-19 records as they are separated from the remaining records on file AT. The JCL required to run the TYPE-19 analysis is as follows:

CIMILIND

		\$ SNUMB	99999
		\$ IDENT	SITE STANDARD, NAME
		\$ LOWLOAD	
		\$ OBJECT	
		BINARY	OBJECT DECK
		\$ DKEND	
		\$ EXECUTE	DUMP
		INPUT O	PTIONS
		\$ LIMITS	50,40K,, 50K
4	(*)	\$ FILE	XD, X1R, 300L
	(*)	\$ TAPE	AT, AlD,, 99999,, ACCNT,, DENSIT
		\$ ENDJOB	

00000

The two starred files (*) may be omitted in the JCL declarations and dynamically acquired by the program during its execution using the MME GEMORE facility.

Practically, the program is best run against a single day's accounting tape or portions of a daily tape. The volume of data over extended periods of time may be inordinately large to process in a single run.

The output products are generated in response to several input option selections. The possible input options that can be supplied by the user are shown below with their associated interpretation. As evidenced, all options with the exception of time values are expressed as three-character strings, one per logical record.

OPTION

ALL DISPLAY THE FORMATTED

FIELDS FROM ALL RECORDS

FOUND.

SUB-ssss DISPLAY INFORMATION FOR

ONLY THOSE RECORDS CONTAINING

THE SUBSYSTEM NAME ssss. (e.g.

SUB-JOUT, SUB-NEWU, etc.)

USE-uuu...uuu DISPLAY INFORMATION FOR ONLY

THOSE RECORDS CONTAINING THE

USER ID uuu...uuu. (e.g. USE-

ABC, USE-TRAINING ID)

SUM PROVIDE A SUMMARY, BY

SUBSYSTEM, OF THE RECORDS

PRO DISPLAY A PROFILE OF EACH

USER SESSION

MEM PLOT MEMORY UTILIZATION

LOD PLOT USER LOAD

DEM PLOT USER MEMORY DEMANDS

MAP DISPLAY THE MEMORY MAPPING

OF USER ID'S AND SUBSYSTEMS

T T COT	DICTOR ATT	7 / C 7 / C C 7 / C	UTILIZATION
11 /1 /		1// H: N/// 1 12 V	
UTL		IVITATVICATAL	

DATA

SSS DISPLAY SUBSYSTEM SIZE

DISTRIBUTIONS

RES DISPLAY RESPONSE TIME

DISTRIBUTIONS

WLF DISPLAY AN ONGOING "WORK

LOAD FACTOR."

TM1 SELECT INFORMATION FROM

00.000 TO 06.000

TM2 SELECT INFORMATION FROM

06.000 TO 12.000

TM3 SELECT INFORMATION FROM

12.000 TO 18.000

TM4 SELECT INFORMATION FROM

18,000 TO 24,000

TT. TTT-TT. TTT SELECT INFORMATION FROM TIME

INTERVAL T1 TO T2

-TT. TTT SELECT INFORMATION STARTING

WITH THE FIRST RECORD AND

ENDING AT TT. TTT

TT. TTT SELECT INFORMATION STARTING

WITH TT. TTT AND ENDING AT

THE LAST RECORD

III. OUTPUT DESCRIPTIONS

The output products consist of three parts - 1) The input summarization portion 2) the record summarization portion, and 3) the input directed portions.

The input options are sca**nn**ed for validity and echoed to the printer. Any errors in syntax are displayed. Appendix A is a sample of the input option display.

The items in Appendix B are produced for each run and are not selectable by an input option. There are three main topics addressed as part of the summaryl) elapsed time and counters, 2) userid's and stations present, and 3) the counts of each subsystem occurrence. Within the userid/station id portion any zero userid field is replaced by the "**UNKNOWN**" string. A zero userid can occur during logon of a user under certain conditions.

The combination of userid/station id is considered to be a unique identifier for a session. For those sites with fixed terminal identities (e.g. VIPS) the uniqueness of a session becomes a bit more clouded.

The displays from Appendix C and beyond constitute examples of input directed output.

Appendix C is a sample plot produced by the selection of the MEM option. The plot time span is sensitive to any user specified time values. Within any time span the plot increment for the y-axis is automatically scaled to produce a paged plot. The x-axis increment represents a 2K increase with each plot point (e.g. 0, 2, 4, 6, 8, 10, etc.) shown in the heading. The numbers between the dashes can be thought of as a tens value number. For each plot time shown along the y-axis, the memory utilization is represented by executive entries (E), available space holes (-), subsystems (S) and upper limit of memory (*). As more users are detected the size of the exec may expand to contain the UST's. No distinction is made for a graphed line to show where adjacent subsystems break. It is possible for lK subsystems and lK BTOS buffers to not be represented as plot points, and that is usually reflected by spaces between the last entry and TSS's upper memory limit. A sample interpretation using times 13.148 and 13.275 show an executive size of 22K and 24K respectively indicating an increase for UST space occurred. The line for time 13.148 shows more available space than is available at 13.275. Each entry reflects either lK subsystems or lK BTOS buffers present- in the first line, 4K is not plotted and in the second line, 8K is not plotted. Appendix D is a sample plot produced by selecting the LOD option. All plots are sensitive to the time span and are automatically scaled. In this plot the x-axis increment of 1 means the header values represent an increase of 5 for each numbered plot point (e.g. 0,5,10,15,20 etc.). Within the plot the number of users (#), maximum number of users(*), number of users waiting memory (W), and number of urgent users (U) is shown. Coincident plot points are not resolved by using alternative plot characters. As an example, the plot line at 13.275 shows 1 user waiting memory, no urgent users, 12 current users, and a maximum number of users equal to 15.

Appendix E is a sample plot produced in response to the DEM option. This plot has a 2K x-axis increment and reflects the number of users waiting memory (U), the memory needed (K) and the maximum number of users (*). As an example, line 14.736 reflects 1 user waiting for 14K with 16 users maximum.

Appendixes F and G are samples from the ALL/SUB/USE options showing the chronological occurrence of each record. All fields within the record are split out beneath appropriate headings. For time related values the numbers are representing seconds. The numbers to the extreme right are record sequence numbers. The field headings, their parent UST cell, and meanings are shown below:

STAT ID	(station identifier) is obtained from LBUF
TRM TYP	(terminal type) is obtained from LBUF
BAR/SS SIZE	(subsystem base address and size) are obtained from .LSIZE
#SWAPS WT IN	(number of swapouts waiting input) is obtained from .LTCO
#SWAPS WT OT	(number of swapouts waiting output) is obtained from .LTCO
#TRO FAULTS	(number of timer runout faults) is obtained from .LTC1
#DISPS NO-INT	(number of dispatches met interrupted) is obtained from .LTC1

	#INPUT REQ's	(number of terminal input requests) is obtained from .LTC2
	#TERM OUTPUT	(number of terminal output transmissions) is obtained from .LTC2
* .	#FORCE SWAPS	(number of forced swapouts) is obtained from .LTC3
	TOTAL# SWAPS	(number of swapouts, swapins, loads) is obtained from .LTC3
	#KEY I O DRLS	(number key I/O derails) is obtained from .LTC4
	NUMBER DRLS	(total number of derails) is obtained from .LTC4
	#EBM ADDS	(number of times extra buffer memory was added) is obtained from .LTC5
	#BUFF READS	(number of buffer reads from swapped buffers) is obtained from .LTC5
	#KEY I O CHAR/8	(number of keyboard output characters divided by 8) is obtained from .LST10
	#DISK I/O's	(number of disk I/O's) is obtained from .LST10
	#CHR/8 IN SS	(number of keyboard output characters counted within this subsystem) is obtained using .LST10 and .LKDSS
	#DIO IN SS	(number of disk I/O's within this subsystem) is obtained using .LST10 and .LKDSS $$
	MAX # USRS	(maximum number of users)
	CUR# USRS	(current number of users)
	#URG USRS	(number of urgent users)
	TOTAL PROC	(total processor time used by user) is obtained from

PROC IN SS	(processor time used within this subsystem)
IN MEM RDBLCK	(non-useful time spent in memory but roadblocked) is obtained from .LTMO
SWPING TIME	(time spent swapping the subsystem) is obtained from . LTM1
IN MEM PROC Q	(useful memory residence time when subsystem is waiting for the processor) is obtained from .LTM3
SWAPOT TIME	(time subsystem is swapped out, not waiting for memory) is obtained from . LTM3
WT MEM NOFSWP	(time spent waiting memory not after forced swap) is obtained from . LTM4
WT MEM FSWP	(time spent waiting memory after forced swap) is obtained from .LTM5
RESP TIME	(accumulated response time) is obtained from . LTMRS
CONTRL TIME	(START TIME OF PROCESS USED AS WORKING TIMER) is obtained from .LTMWT

Appendixes H and I illustrate how a sample output from the UTL option might appear. Each entry represents a step in time from which memory utilization data is extracted. Each line consists of entries which detail the following:

- 1) number of subsystems in memory
- 2) the smallest, average and largest sizes for subsystems in memory
- 3) the number of available space holes
- 4) the largest amount of memory available
- 5) the number of BTOS buffers present
- 6) the values of memory used and available
- 7) the percentage of memory used and available

Appendixes J and K illustrate how a sample report using the MAP option might appear. For each record occurrence the memory entries are broken out to show which users are present and what they are involved with. An attempt is made to correlate the station id back to the userid and if a unique entry cannot be found the *NON-UNIQUE*" string is inserted. The user's subsystem size and subsystem name are followed by the number of dispatches and an interpretation

showing either .LFLAG bits or BTOS usage. As an example, the entries for 12.946 at the bottom of page 443 (appendix J) show 7 users in memory with one user (LINE-ID = 4460) having a BTOS buffer in use. All but two users are running routines from the CMDLIB (CMDL) facility. The other two users are running a 24K RUN Y subsystem and an 11K EDTX subsystem. Of interest is the trends that can be seen from previous entries (e.g. userid L66VU on line 5200 had 3 dispatches between the record occurrences at 12.939 and 12.946.

Appendixes L through O are sample reports generated from the SUM option. Each report shows the summarized statistics for the single specified subsystem. For each headed value the highest value, lowest value, average value and total value are shown. All times are shown in seconds.

Appendixes P, Q and R are samples using the PRO option. Each unique userid/station-id identified session is shown in terms of the subsystems used by that user. The headings for the columnar data represent the same data fields used for earlier reports. For sessions where the userid and station-id reflect multiple sessions a blank line occurs between the TERM and NEW subsystem entries. After all subsystems have been listed for user, the users session is summarized showing totals lines, low values, average values, and high values. When all user sessions are listed, a summary for all users shows the total sessions, the low, average and high values for the number of subsystems the low, average, and high values for elapsed time and the total number of subsystems.

Appendix S is a sample report that results from the SSS option that shows the distribution of subsystem sizes. The histogram-like display is a more finely detailed breakout than is used in TSSA. The occurrences, percent values and cummulative percentages are shown in integer values.

Appendix T is a sample output from the RES option showing distributions of response times gathered from the records. Again, this is a more refined steve for times than is currently kept in TSSA.

Appendixes U and Y are examples showing the represention of a work load factor as requested by the WLF option. The work load factor (WLF) is a single expression that is listed as a number and in pactoral form. The fields within the Type-19 record that are sensitive indicators of TSS performance are grouped into a numeric expression and reduced to a single number expressing periods of utilization that require further examination. The factors used in the WLF computation are:

A = memory available

B = total hole size

C = amount of memory needed

D = number users waiting memory

E = number of subsystems in memory

F = maximum number of users

G = current number of users

H = number of urgent users

The WLF is then computed as follows:

WLF = ((A-B)*E) / ((C/D)*(F-G)*H)

IV. USAGE

The Type-19 reports can be used by a person familiar with the operation of TSS to determine which conflicts between users and resources result in reduced TSS performance.

Critical areas of TSS that may be affected by user loads include:

maximum user load memory assigned to TSS rate at which users wait for memory

frequency of urgent users appearing
use of CMDLIB routines
effects of memory acquisition and release
amounts settable within TSS

amounts of memory needed when users are found waiting memory

excessive swap activity
impact of large BTOS requirements
clash between specific users and their unique
applications

trends in the way subsystems are utilized

delays in bringing subsystems into memory

ratio of productive work prior to timer runouts

or interrupts

amount of keyboard I/O

amount of subsystem disk I/O

trends reflected in the average session subsystem size distributions subsystem response time distributions

An analyst has a wide number of cells in the executive communication region (TSSA) that can be altered to effect different results. It is impossible to issue many hard edicts regarding parameter tuning for a site. Each site workload is unique and global tuning recommendations are hard to arrive at. Once a site goes beyond the "allocation of TSS files, FMS modules in memory, use of SSA cache" effort a continuous cycle of definition of objectives, measurement, analysis, alteration of values is required to spot the trends that make a site unique or the user whose presence introduces system perturbations.

V. MAINTENANCE

The analysis package is coded in GMAP using liberal ELS instructions. All I/O is performed using standard GFRC subroutine calls. All references to fields within records are made using assembly defined symbols. The format of the Type-19 record is shown in Appendix W.

PAGE TSS TASTAUMENTATION RECORD ANALYSIS PATESTON PROCESSING SUM: ALL. 4E-4 r00 DEM JŤL 555 RE5 ΝLF

```
2756W 02 10-18-78
                    16.237
                                      TSS INSTRUMENTATION RECORD AMALYSIS
                                                                                                           PAGE
                                                                                                                     2
                                                  SUPPARY OF RECORD CONTENTS
                                     RECORDS PROCESSED REFLECT A TIME SPAN OF
                                            10137g 19.198 - To 101378 21.142
                                     NUMBER OF RECORDS PROCESSED
                                                                                       = 2115
                                     LARGEST VALUE FOR MAXIMUM NUMBER OF USERS
                                     LARGEST MEMORY LIMITS
                                                                                           126
                                     AVERAGE NUMBER OF CURRENT USERS
                                                                                            10
                                     LARGEST NUMBER of DOGENT - USERS
                                     USEFICIS / STATIONTICIS PRESENT
**UNKNOWN** /2020 R.BASTAD /5370 L6640
                                                 75200 L665
                                                                   /5160 GEDIT
                                                                                       75150 MMCMAN
                                                                                                         /517c
            /5270 ** U. K 104N*# /5370 WALT
. 50
                                                 15175 MAJ
                                                                    75100 **UNKNO*N** 75400 LBD
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.66£
3025
            75330 SED
                              75310 M/A
                                                 75300 NUPU
                                                                    75260 SHCHM
                                                                                      75210 MX581
                                                                                                         75110
            /2250 Lobe
                               15-10 BPP
                                                 14460 ++ UTKNOATH+ 15210 LIMBH
                                                                                       75210 THRLE
                                                                                                         /5170
            ,7777 1141.
                                                 /5251 -55
/5210 -556
SED
                               77777 DBAD'-EY
                                                                    1777 PARSUM
                                                                                       15250 L66E
                                                                                                         14460
SOCCARD
            10210 .5
                               /5310 60455
                                                                    75270 **UNK 34N** 75110 SMCPM
                                                                                                         75110
            /5210 *ASB1
                               75260 GEDIT
SALT
                                                 75430 LAFYU
                                                                    75410 LOGICI.9
                                                                                      15450 MALT
                                                                                                         7521C
.00IC1.0
            15210 155TL
                              75300 NŠYSD
                                                 75110 495
                                                                    75178 BPP .
                                                                                      75210 19STL
                                                                                                         75110
            /1777 AXSB:
INSTL
                               /7777 WALT
                                                 75116 4545D
                                                                    75210 BEDORE
                                                                                      75260 PERT
            /5170 AUEU
/77/7 SED
                                                                                                         15450
ERT
.5
                              75310 L66VU
                              75310 E66% 75160 .5
75250 **UTKTOAN** 75300 A18U
                                                                    75300 MAN
                                                                                      75310 ARTMORK
                                                                                                         15330
                                                                    /5317 BEDURE
/5530 TECT
                                                                                      75210 MALT
                                                                                                         154ES
                              75500 TECH
            754/3 L66F
                                                 165.0 Eine
                                                                                       12726 GRAPHIC
                                                                                                         15550
                                     SUBSYSTEMS / MUMBER OF OCCUPRENCES PRESERT
COUT
          70
             TERM
                     108 NEW
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                                              650 CATA
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PERM
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                                                               baut.
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```
741 0v C2 10-19-78 12.735
```

TSS INSTRUMENTATION RECORD ANALYSIS

FAGE

MEMORY UTILIZATION FLOT (F=EXEC, -=HOLE, S=SUBSYS, *=UAL)

```
PLOT OF DATA FROM 12.000 TO 18.000 (PLOT INCREMENT= CO.115 x-AXIS INCREMENT=2) ...
12.546 ECEEEEEEEFFT--SS----- *
13.507 EEEEEEEFFFFF=-58888------58888885-----
16.72C EEEEEEEEEEEEEESSSUSS------
16.837 EEEEEEEEEEEEEFE------
16.969 EFEEEEEEEEEE.----*
0----1----2----3----4----5----6----7----8----9----0----1----2----4----5----6----7----8----3----1----3----3----4----
```

```
711 Cw C? 10-13-78 12.741
                               ISS INSTRUMENTATION RECORD MALASIS
                        LOAD WEST SAIN (#=#USERS, *=*** USERS, #=#USERS WAIT MEMORY, U=#URGENT USERS)
                      12.020
12.124
12. /14
12.430
12.54-
12.667
12.786
12.902
13. 71
17.149
13.275 W
13. 791
13.801
13.623
13.739
13. 254
13.970
14.099
14. 222
14.741
14.465
14.612
14.736 ₩
14.252
14.976
15.094
15.211
15.327
15.444
15.547
15.683
15. 802
15,019
16.037
16.175
16.295
16.419
16.593
```

C

16.720 # 16.837 # 16.969 #

```
711 0W C2 10-19-78 12.754
```

TSS INSTRUMENTATION RECORD AMALYSIS .

DEMAND PLOT (U=AUCERS WAIT MEMORY) KEMEMORY NEPDED, *=MAX BUSERS).

```
12.020
17.184
12.314
12.430
12.546
12.667
12.786
12.902
13.031
13.148
13.275 U
13.391
13.507
13.623
13.738
13.854
13.97C
14.099
14.222
14.341
14.460
14.618
14.736 U
14.852
14.976
15.094
15.211
15.327
15.444
15.567
15.683
15.802
15.919
16.G37
16.175
16.295
16.419
16.593
16.720
16.837
16.969
```

2756W 0	2 10-18	- 78	16.237	T55	145TR	UMENTATI	ON RECC	ANALY5 ود	is.				P46F	. 3	
						: NSTRU	MENTATI	ON RECORD	REPORT						
DATE 101378	12.010 TIME	SS NAME CRUM	USERID 604°S	5TAT ID 5210	TYP	BÅR 250002	5148	42 NA IN	WI OUT	#TRU FAULTS C	#DISPS "ICTINT 12	REQ'S	S P	*TOPCE TOTAL* Sharb Sharb 10	1
						#KEYIC DRLS 9	MUNBER DRLS 26	#EoM ADDS 1	#5UFF READS 0	#KEYIO CMAH/H 127	*(155 170*5 5	*CHR/8 I': 55 5	#D:0 17:55	#4/* CUR* *URG #5%5 USR5 USR5 15 6 0	
						TOTAL PROC 0		IN MEM RDBLCK 49		PROC D	SHEPOT TILE 130	MOFSMY			,
DATE 1013 ⁷ 8	TIME 12.020	SS NAME CMOL	MJPJ MPEBID	STAT ID 5100	TYP	B≜≅ 330002	35 514E 002600	WI IN	*SMAMS MT 5UT 48	FAULTS				#*CRCE TOTAL# 5*445 5*445	:
						#KEYIC DRLS 5190	MUMBLE DRES 13460	AULS	#ناله خربه £ 103	CHHK/8	#DISK 170*5 24451			15 6 0 1525 5285 9585 15 6 0	
						TOTAL PROC 1325	PROC 2 I' 55	RUBLICK	SWPING TIME 137		TIME		FSAL		
DATE 101378	TIME 12.020		USERID MAN	STAT. 10 5360	TYP	B # P 062002	SIZE							#FCRCE TOTAL# Shams Shams U 361	3
						*KEYIO DRLS 1992	PUMBER SRLS 2530	#EbM ADUS 396		CHAHIZB	#[]SK]/C'S 274		*DIC M 55 153	USAS USAS USAS 15 6 0	
						PROC	PROC IN 55 37		5AP173 TI 4F.	PROC 0		NOFSWH			
DATE 101378	TIME 12.020	SS NAME REMO	USERID HAN	STAT ID 5300	TYP	BAR 062002		WI IN	TUUT TH	FAULTS.	.0-In1		CUTPLT	**CRCE TOTAL* 5*445 5*445 0 3	4
Ž.						*KEYIO DRL5 0	NUMBER DRLS 20	4605	#5 ⁽⁾ FF кЕ405 0			*CHR/8 I* 55	:1, 55	9-14 CUR# #URG USYN USRS USRS 15 6 0	
						TOTAL PROC 54	PROC IN SS	IN MEM	SWPING TIME	440C 0	SWAPOT TIME	NOFSWP	FSNL	RESM CONTRL TIME TIME 177,3	

C

	2756^ G	2 10-18	3 - 78	1237	→ 55	IMSTR			RD ANALYS					PAGE	4		, Y
							TASTRU	PALENT STI	CN RECORD	J REPORT							
		TILE 12.021		AM USFRID	STAT ID 5300	- y D	94E 962192	514£-	SHAMS# NI Th to	זעון) דייי	FAULTS	HO-INT	R£4°5	CUTPUT	#*ORCE TO %*4"5 5*	÷ - S	5
							KEYIO DRLS 1		#Epr /DDS 0		CHARIE		It. 55	IN 35	74^ (UR* 75R5 Y5R5 15 6		
										TIBE	430 G	TIME	NOFSMM	FSAL	RESM CO TIVE T: 2 1		
٠	DATE 101378	TIME 12.022		USERID		TYP		SIZE		MT OUT		1101-1NT	PE015	SHIFLE	AFIRCE TO SMARS SA	1 ^{PS} .	6
							e Dalp Setio	11UmbER 3565 3	#წმო . გეგენ C	PEAUS	#KEYIO CMAR/L 24656	#515K 170'S 277	#cHR/8 I' 55 0	*DIC 5	9-1* CUR* 3545 95R5 15 6	JSWŠ	
							TOTAL PROC 54		II NEM REBLCK C	T 1 1F		TILE	MYFSWH	FSAF	TIKE T	NTDL .E 0726	
(DATE 1013/8	TINE 12.022	55 MARE LOGO		5*AT 10 5300	- V P		5:4E	4 2 Ist	41 601	FAULTS	*DISPS	#1*:PUT REO*5 C	OUTHUT	AFCHCE TO Shars Sm	≟ ₹5	7
)ant 3ant 4<2410	9 MBER 5815 5	.001	T ~ENDS₹	*KEYIO CTAK/8 24670				9844* CUR* 9983 2585 12 6	-	
•							PROC 54		A C BDPFCW IV WEW							114L ME 0729	
	10137g	T1FE	SS NAME TERM	USERID MAN	5TAT ID 5300	TYP	BAF C62012	5 ! 4 F	WT IN .	AT OUT			RÉG*5		#FORCE TO N#445 5#	~PS	
				•	•.		*KEYIC DRLS C	NUMBER DRLS 3		READS	*KEYIO CMAR/8 24670			IN 55	WAA* CUR* USHS YSRS 15 6		
. (TOTAL PROC	PROC In SS		TIME SWPING	IN MEM PROC D	SWAPOT TIME	WT MEM	WT KEM ESNE	RESM CO	"TRL UF	