

START Job DSTAT Req #909 for KSPROUL Date 11-Sep-82 20:41:54 Monitor: Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit *START*

START Job DSTAT Req #909 for KSPROUL Date 11-Sep-82 20:41:54 Monitor: Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit *START*

```
K K SSSS PPPP RRRR 000 U U L
K K S P P R R 0 0 U U L
K K S P P R R 0 0 U U L
KKK SSS PPPP RRRR 0 0 U U L
K K S P R R 0 0 U U L
K K S P R R 0 0 U U L
K K SSSS P R R 000 UUUUU LLLLL
```

START Job DSTAT Req #909 for KSPROUL Date 11-Sep-82 20:41:54 Monitor: Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit *START*

START Job DSTAT Req #909 for KSPROUL Date 11-Sep-82 20:41:54 Monitor: Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit *START*

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```
N N SSSS 999 1 000 H H 000 L EEEEE SSSS
N N t S 9 9 11 0 0 H H 0 0 L E S
NN N ooo ttt eee ## S 9 9 1 0 00 H H 0 0 L E S
N N N o o t e e e ## SSS 9999 1 0 0 0 ----- HHHHH 0 0 L EEEE SSS
N NN o o t eeee S 9 1 00 0 H H 0 0 L E S
N N o o t e ## S 9 1 0 0 H H 0 0 L E S
N N ooo tt eeee ## SSSS 999 111 000 H H 000 LLLLL EEEEE SSSS
```

START Job DSTAT Req #909 for KSPROUL Date 11-Sep-82 20:41:54 Monitor: Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit *START*

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*
* * * * * N O T I C E * * * * *
*
* ATTENTION!! NEW BIN NUMBERS AT HILL CENTER!
* -STARTS AUGUST 29- CHECK CAMPUS MAIL
* FOR DESCRIPTIVE MEMO OR PICK ONE UP AT HILL
* I/O COUNTER OR AID STATION-
* RESET BIN IN WYLBUR TO CONFORM!
*

DDDDDDDDDDDD	SSSSSSSSSSSS	TTTTTTTTTTTTTT	AAAAAAAAAA	TTTTTTTTTTTTTT
DDDDDDDDDDDD	SSSSSSSSSSSS	TTTTTTTTTTTTTT	AAAAAAAAAA	TTTTTTTTTTTTTT
DDDDDDDDDDDD	SSSSSSSSSSSS	TTTTTTTTTTTTTT	AAAAAAAAAA	TTTTTTTTTTTTTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSSSSSSSSS	TTT	AAA AAA	TTT
DDD DDD	SSSSSSSSSS	TTT	AAA AAA	TTT
DDD DDD	SSSSSSSSSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAAAAAAAAAAAAAAA	TTT
DDD DDD	SSS	TTT	AAAAAAAAAAAAAAAA	TTT
DDD DDD	SSS	TTT	AAAAAAAAAAAAAAAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDD DDD	SSS	TTT	AAA AAA	TTT
DDDDDDDDDDDD	SSSSSSSSSSSS	TTT	AAA AAA	TTT
DDDDDDDDDDDD	SSSSSSSSSSSS	TTT	AAA AAA	TTT
DDDDDDDDDDDD	SSSSSSSSSSSS	TTT	AAA AAA	TTT

LLL	SSSSSSSSSSSS	TTTTTTTTTTTTTT		111
LLL	SSSSSSSSSSSS	TTTTTTTTTTTTTT		111
LLL	SSSSSSSSSSSS	TTTTTTTTTTTTTT		111
LLL	SSS	TTT		111111
LLL	SSS	TTT		111111
LLL	SSS	TTT		111111
LLL	SSS	TTT		111
LLL	SSS	TTT		111
LLL	SSS	TTT		111
LLL	SSSSSSSSSS	TTT		111
LLL	SSSSSSSSSS	TTT		111
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LLL	SSS	TTT		111
LLL	SSS	TTT		111
LLLLLLLLLLLLLLLL	SSSSSSSSSSSS	TTT		11111111
LLLLLLLLLLLLLLLL	SSSSSSSSSSSS	TTT		11111111
LLLLLLLLLLLLLLLL	SSSSSSSSSSSS	TTT		11111111

Faint header text at the top of the page, possibly containing a title or reference information.

Main body of faint text, appearing to be a list or series of entries, possibly a table with multiple columns.

Bottom section of faint text, continuing the list or series of entries from the main body.

```

1          .TITLE DISK STATUS COMMAND
2
3          ;          17-MAY-81          by Keith Sproul
4
5          8000          USRRAM =          $8000
6          C000          SYSRAM =          $C000
7
8          .LIST ME
9          .MCALL DSKEQU, SVCDEF
10         0000          DSKEQU
(1)          ;***** FLOPPY DISK CONTROLLER REGISTER ADDRESSES *****
(1)
(1)         C603          CODOS =          SYSRAM+$0603          ; CODOS WARM START ADDRESS
(1)         DFOO          DSKIPL =          SYSRAM+$1FOO          ; DISK BOOT ENTRY POINT
(1)         DFEB          FDCIRQ =          SYSRAM+$1FE8          ; K-1013 INTERRUPT REG.          (READ-ONLY)
(1)         DFEB          FDCHWC =          SYSRAM+$1FE8          ; DMA MODE (B0) WRITE PROT (B1) (WRITE-ONLY)
(1)         DFEA          FDCDMA =          SYSRAM+$1FEA          ; FDC DMA ADDRESS REGISTER
(1)         DFEE          FDCMSR =          SYSRAM+$1FEE          ; FDC NEC-765 MAIN STATUS REGISTER
(1)         DFEF          FDCDR =          SYSRAM+$1FEF          ; FDC NEC-765 DATA REGISTER
(1)
(1)          ;*****
(1)         0000          SVCDEF
(1)
(1)          .MCALL SVC, SVCBYT
(1)          . =          $00B0
(1)         00B0 0001          U0:          .BLKW 1          ; NUMERIC VALUES
(1)         00B2 0001          U1:          .BLKW 1          ; ADDRESSES
(1)         00B4 0001          U2:          .BLKW 1          ; ADDRESSES / SIZE
(1)         00B6 0001          U3:          .BLKW 1          ; FILE NAME POINTER
(1)         00B8 0001          U4:          .BLKW 1          ;
(1)         00BA 0001          U5:          .BLKW 1          ; POINT TO START OF INPUT LINE BUFFER
(1)         00BC 0001          U6:          .BLKW 1          ; POINT TO START OF OUTPUT LINE BUFFER
(1)         00BE 0003          U7:          .BLKB 3          ; 24 BIT FILE ORDINAL POINTER
(1)         00EE          SVCENA =          $00EE          ; MUST BE SET TO $80 TO ENABLE SVCS
(1)
(1)          .NLIST ME
12
13
14
15
16
17         8000          . =          $8000
18
19         8000 A9 80          DSTAT: LDA          #$80
20         8002 85 EE          STA          SVCENA
21         8004          SVC          2
22         8006 02 OD 44          .ASCIZ <2><$OD>'Disk Status'
23
24         8014 A9 00          LDA          #0
25         8016 20 33 80          JSR          CHKDRV
26         8019 A9 01          LDA          #1
27         801B 20 33 80          JSR          CHKDRV
28         801E A9 02          LDA          #2
29         8020 20 33 80          JSR          CHKDRV
30         8023 A9 03          LDA          #3
31         8025 20 33 80          JSR          CHKDRV

```

32	8028	A9	OD	LDA	#\$OD	
33	802A	A2	O2	LDX	#2	
34	802C			SVC	4	
35						
36	802E	A9	OO	LDA	#0	
37	8030	85	EE	STA	SVCENA	; DISABLE SVCs
38	8032	60		RTS		
39						
40						

```

42
43
44 8033          CHKDRV:          ; CHECK DRIVE STATS
45 8033      8D  41  81          STA      TMPDRV          ; SAVE DRIVE #
46 8036      20  8A  80          JSR      SDRVST          ; SENSE DRIVE STATUS
47 8039          SVC      2
48 803B      02  0D  44          .ASCIZ  <2><$OD>'Drive '
49
50 8044      AD  41  81          LDA      TMPDRV          ; RESTORE DRIVE #
51 8047      09  30          ORA      #$30          ; MAKE INTO ASCII NUMBER
52 8049      20  01  81          JSR      CTYQUT
53 804C      20  0C  81          JSR      CTYSPA          ; PRINT A SPACE
54 804F      AD  44  81          LDA      DSKSTS+0      ; GET ST-3
55 8052      8D  42  81          STA      TEMP          ; SAVE IT IN TEMP FOR DOING SHIFTING
56 8055      20  19  81          JSR      PRTBYT        ; PRINT IT
57 8058      20  0C  81          JSR      CTYSPA          ; PRINT 2 SPACES
58 805B      20  0C  81          JSR      CTYSPA
59 805E      A2  46          LDX      #'F          ; INDICATE DRIVE FALUT
60 8060      20  7B  80          JSR      CHKSUB
61 8063      A2  57          LDX      #'W          ; INDICATE DRIVE WRITE PROTECTED
62 8065      20  7B  80          JSR      CHKSUB
63 8068      A2  52          LDX      #'R          ; INDICATE DRIVE READY
64 806A      20  7B  80          JSR      CHKSUB
65 806D      A2  30          LDX      #'O          ; INDICATE DRIVE @ TRACK ZERO
66 806F      20  7B  80          JSR      CHKSUB
67 8072      A2  32          LDX      #'2          ; INDICATE IF DOUBLE SIDED
68 8074      20  7B  80          JSR      CHKSUB
69
70 8077      AD  44  81          LDA      DSKSTS+0      ; RETURN WITH DISK STATUS IN ACC
71 807A      60          RTS
72
73 807B      A9  20          CHKSUB: LDA      #$20          ; CHECK DRIVE SUBROUTINE
74 807D      0E  42  81          ASL      TEMP          ; <space>
75 8080      90  01          BCC      CHKSB1        ; IF CONDITION NOT MET THEN PRINT <space>
76 8082      8A          TXA          ; OTHERWISE, PUT CHAR INTO ACC FROM %X
77 8083      20  01  81          CHKSB1: JSR      CTYQUT
78 8086      20  0C  81          JSR      CTYSPA          ; <space>
79 8089      60          RTS
80
81
82 808A      8D  40  81          SDRVST: STA      SDSTCM+2      ; SENSE DRIVE STATUS
83 808D      A2  00          LDX      #SDSTCM-DSKCMD ; PUT DRIVE # IN SENSE DRV STAT CMD 2nd BYTE
84 808F      20  95  80          JSR      COMAND        ; SENSE DRIVE STATUS CMD OFFSET
85 8092      4C  BA  80          JMP      RESULT        ; GET RESULT
86
87
88
89
90
91
92
93
94
95
96
; .PAGE
; SEND COMMAND TO FLOPPY DISK CONTROLLER
; ENTER WITH RELATIVE ADDRESS OF COMMAND BYTES IN X (RELATIVE TO
; DSKCMD) AND NUMBER OF BYTES IN COMMAND IN Y.
; ROUTINE SENDS THE BYTES TO THE FLOPPY DISK CONTROLLER AND
; RETURNS WITH THE CARRY FLAG OFF.
; IF AN ERROR IS DETECTED, THE CARRY FLAG IS ON.
; IF THE CONTROLLER IS BUSY, THE ERROR RETURN IS TAKEN

```

```
97
98 8095          COMAND:
99 8095 AD EE DF      LDA   FDCMSR      ; LOOK AT MAIN STATUS REGISTER
100 8098 29 10      AND   #$10       ; LOOK AT ALL OF THE BUSY BITS
101 809A DO 19      BNE   CMDPHE     ; ERROR IF EXECUTING PREVIOUS
102              ; COMMAND (EXCEPT SEEK)
103 809C BC 3E 81    LDY   DSKCMD,X    ; GET NUMBER OF BYTES IN CMD      <KS>
104 809F E8         INX              ; POINT TO NEXT ENTRY IN CMD TABLE <KS>
105 80A0 AD EE DF    CMDPH1: LDA   FDCMSR      ; LOOK AT MAIN STATUS REGISTER
106 80A3 10 FB      BPL   CMDPH1     ; WAIT UNTIL REQUEST FOR MASTER GOES TRUE
107 80A5 29 40      AND   #$40       ; TEST DATA DIRECTION BIT
108 80A7 DO OC      BNE   CMDPHE     ; ERROR IF FDC WANTS TO TALK
109 80A9 BD 3E 81    LDA   DSKCMD,X    ; GET A COMMAND BYTE
110 80AC 8D EF DF    STA   FDCDR      ; STORE IT IN THE DISK CONTROLLER
111 80AF E8         INX              ; POINT S TO NEXT COMMAND BYTE
112 80B0 88         DEY              ; DECREMENT COMMAND BYTE COUNT
113 80B1 DO ED      BNE   CMDPH1     ; GO TRANSFER NEXT BYTE IF NOT DONE
114 80B3 18         CLC              ; CLEAR CARRY FOR NORMAL RETURN
115 80B4 60         RTS
116
U 117 80B5 A9 OO      CMDPHE: LDA   #FCMDER   ; FDC COMMAND ERROR
118 80B7 20 FF 80    JSR   ERROR
119
120
121
```



```
123 ; RECEIVE STATUS FROM FLOPPY DISK CONTROLLER
124 ; STATUS BYTES ARE STORED SEQUENTIALLY IN MEMORY STARTING AT
125 ; DSKSTS, THE NUMBER READ IS DETERMINED BY THE FDC BUSY STATUS
126 ; ROUTINE READS THE STATUS BYTES IN THE RESULT PHASE AND RETURNS
127 ; WITH THE CARRY FLAG OFF.
128 ;
129
130 80BA A2 00 RESULT: LDX #0 ; INIT INDEX POINTER
131 80BC AD EE DF RESULT1: LDA FDCMSR ; LOOK AT MAIN STATUS REGISTER
132 80BF 10 FB BPL RESULT1 ; WAIT UNTIL REQUEST FOR MASTER GOES TRUE
133 80C1 29 40 AND #$40 ; TEST DATA DIRECTION BIT (DIO)
134 80C3 FO 13 BEQ RSLPHE ; ERROR IF FDC WANTS TO LISTEN
135 80C5 AD EF DF LDA FDCDR ; GET A STATUS BYTE FROM THE DATA REGISTER
136 80C8 9D 44 81 STA DSKSTS,X ; PUT IF INTO MEMORY
137 80CB E8 INX ; POINT X TO NEXT STATUS BYTE
138 80CC EA NOP ; DAMN SLOW CONTROLLER CHIP! 12US RESPONSE
139 80CD EA NOP ; TIME FROM READ TO VALID BUSY STATUS
140 80CE EA NOP
141 80CF A9 10 LDA #$10 ; LOOK AT BUSY BIT IN MAIN STATUS REGISTER
142 80D1 2D EE DF AND FDCMSR
143 80D4 DO E6 BNE RESULT1 ; GO FOR ANOTHER STATUS BYTE IF STILL BUSY
144 80D6 18 CLC ; CLEAR CARRY FOR NORMAL RETURN
145 80D7 60 RTS
146
U 147 80D8 A9 00 RSLPHE: LDA #FRSLER ; FDC RESULT ERROR
148 80DA 20 FF 80 JSR ERROR
149
150 ; .PAGE
151
152 80DD AD 44 81 RERROR: LDA DSKSTS+0 ; CHECK STATUS REGISTER 0
153 80E0 29 D8 AND #$D8 ; MASK OUT NON-ERROR BITS
154 80E2 FO 09 BEQ RERR1 ; JUMP AHEAD IF NO OBVIOUS ERROR
155 80E4 C9 40 CMP #$40 ; TEST IF ABNORMAL TERMINATION ERROR
156 80E6 DO 15 BNE R..ERR ; TRUE ERROR IF NOT
157 80E8 AD 45 81 LDA DSKSTS+1 ; IF ABNORMAL, TEST IF END OF CYLINDER
158 ; <KS> CHECK FOR $04
159 80EB 10 10 BPL R..ERR ; TRUE ERROR IF NOT, OK IF SO
160 80ED AD 45 81 RERR1: LDA DSKSTS+1 ; CHECK STATUS REGISTER 1
161 80FO 29 35 AND #$35 ; MASK OUT NON-ERROR BITS
162 80F2 DO 09 BNE R..ERR ; GO TO ERROR IF ANY OF REMAINDER SET
163 80F4 AD 46 81 LDA DSKSTS+2 ; CHECK STATUS REGISTER 2
164 80F7 29 33 AND #$33 ; MASK OUT NON-ERROR BITS
165 80F9 DO 02 BNE R..ERR ; GO TO ERROR IF ANY OF REMAINDER SET
166 80FB 18 CLC ; CLEAR CARRY FOR NORMAL RETURN
167 80FC 60 RTS
168
169 80FD 38 R..ERR: SEC
170 80FE 60 RTS
171
172 80FF ERROR: SVC 0
173
174
175 8101 8E 43 81 CTYOUT: STX TEMPX
176 8104 A2 02 LDX #2 ; CONSOLE CHANNEL
177 8106 SVC 4
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178 8108 AE 43 81 LDX TEMPX
179 810B 60 RTS
180
181
182 810C 8E 43 81 CTYSPA: STX TEMPX
183 810F A2 02 LDX #2
184 8111 A9 20 LDA #$20
185 8113 SVC 4
186 8115 AE 43 81 LDX TEMPX
187 8118 60 RTS
188
189 8119 8E 43 81 PRTBYT: STX TEMPX
190 ; PRINT ACC AS 2 HEX CHARS
191 811C 48 PHA ; SAVE BYTE TWICE
192 811D 48 PHA
193 811E 4A LSR A ; GET HIGH NIBBLE
194 811F 4A LSR A
195 8120 4A LSR A
196 8121 4A LSR A
197 8122 20 2E 81 JSR HEXASC ; PRINT 1st NIBBLE
198 8125 68 PLA ; RESTORE BYTE
199 8126 20 2E 81 JSR HEXASC ; PRINT 2nd NIBBLE
200 8129 68 PLA ; RESTORE BYTE
201 812A AE 43 81 LDX TEMPX
202 812D 60 RTS ; RTS X = X Y = Y A = A
203
204 812E 29 OF HEXASC: AND #$0F ; CONVERT NIBBLE TO ASCII CHAR
205 8130 C9 OA CMP #$0A
206 8132 18 CLC
207 8133 30 02 BMI HEXASI
208 8135 69 07 ADC #$07
209 8137 69 30 HEXASI: ADC #$30
210 8139 A2 02 LDX #2
211 813B SVC 4
212 813D 60 RTS
213
214
215
216 813E DSKCMD:
217 813E 02 SDSTCM: .BYTE 2 ; # ; 2 BYTES IN SENSE DRIVE STATUS CMD
218 813F 04 .BYTE $04 ; CMD ; SENSE DISK STATUS COMMAND
219 8140 00 .BYTE 00 ; DRV ; DRIVE NUMBER IN BITS 0-1, SIDE NUMBER B2
220
221
222 8141 0001 TMPDRV: .BLKB 1 ; CURRENT DRIVE #
223 8142 0001 TEMP: .BLKB 1 ; TEMP FOR SHIFTING
224 8143 0001 TEMPX: .BLKB 1
225
226 8144 0010 DSKSTS: .BLKB 16
227
228 8000 .END DSTAT

```

CHKDRV	8033	25	27	29	31	44#			
CHKSB1	8083	75	77#						
CHKSUB	807B	60	62	64	66	68	73#		
CMDPHE	80B5	101	108	117#					
CMDPH1	80A0	105#	106	113					
CODOS =	C603	10#							
COMAND	8095	84	98#						
CTYOUT	8101	52	77	175#					
CTYSPA	810C	53	57	58	78	182#			
DSKCMD	813E	83	103	109	216#				
DSKIPL=	DFOO	10#							
DSKSTS	8144	54	70	136*	152	157	160	163	226#
DSTAT	8000	19#	228						
ERROR	80FF	118	148	172#					
FCMDER=	***** U	117							
FDCDMA=	DFEA	10#							
FDCDR =	DFEF	10#	110*	135					
FDCHWC=	DFE8	10#							
FDCIRQ=	DFE8	10#							
FDCMSR=	DFEE	10#	99	105	131	142			
FRSLER=	***** U	147							
HEXASC	812E	197	199	204#					
HEXASI	8137	207	209#						
PRTBYT	8119	56	189#						
RFERROR	80DD	152#							
RERR1	80ED	154	160#						
RESULT	80BA	85	130#						
RSLPHE	80D8	134	147#						
RSULT1	80BC	131#	132	143					
R .ERR	80FD	156	159	162	165	169#			
SDRVST	808A	46	82#						
SDSTCM	813E	82*	83	217#					
SVCENA=	00EE	11#	20*	37*					
SYSRAM=	C000	6#	10						
TEMP	8142	55*	74*	223#					
TEMPX	8143	175*	178	182*	186	189*	201	224#	
TMPDRV	8141	45*	50	222#					
USRRAM=	8000	5#							
U0	00B0	11#							
U1	00B2	11#							
U2	00B4	11#							
U3	00B6	11#							
U4	00B8	11#							
U5	00BA	11#							
U6	00BC	11#							
U7	00BE	11#							
.	= 8154	11#	17#	222#	223#	224#	226#		

DSKEQU	9#	10						
SVC	11#	21	34	47	172	177	185	211
SVCBYT	11#							
SVCDEF	9#	11						

ADC	208	209												
AND	100	107	133	142	153	161	164	204						
ASL	74													
BCC	75													
REQ	134	154												
RMI	207													
BNE	101	108	113	143	156	162	165							
RPL	106	132	159											
CLC	114	144	166	206										
CMP	155	205												
DEY	112													
INX	104	111	137											
JMP	85													
JSR	25	27	29	31	46	52	53	56	57	58	60	62	64	66
	68	77	78	84	118	148	197	199						
LDA	19	24	26	28	30	32	36	50	54	70	73	99	105	109
	117	131	135	141	147	152	157	160	163	184				
LDX	33	59	61	63	65	67	83	130	176	178	183	186	201	210
LDY	103													
LSR	193	194	195	196										
NOP	138	139	140											
ORA	51													
PHA	191	192												
PLA	198	200												
RTS	38	71	79	115	145	167	170	179	187	202	212			
SEC	169													
STA	20	37	45	55	82	110	136							
STX	175	182	189											
TXA	76													
.ASCIZ	22	48												
.BLKB	11	222	223	224	226									
.BLKW	11													
.BYTE	21	34	47	172	177	185	211	217	218	219				
.END	228													
.LIST	8													
.MCALL	9	11												
.NLIST	12													
.PAGE	41	122												
.TITLE	1													

? Errors detected: 2

*,DSTAT=DSTAT
 Run-time: 1 0 0 Seconds
 Core used: 9K

1954
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END Job DSTAT Req #909 for KSPROUL Date 11-Sep-82 20:42:36 Monitor: Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit **END**

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* * * L P T S P L R u n L o g * * *

20:41:54 LPDAT LPTSPL version 104(16650) Rutgers/LCSR DEC-20 (Red), TOPS-20 Monit
20:41:54 LPDAT Job DSTAT sequence #1424 on Printer 0 [LOCAL] at 11-Sep-82 20:41:54
20:41:58 LPMSG Starting File PS:<KSPROUL>DSTAT.LST.1
20:42:36 LPMSG Finished File PS:<KSPROUL>DSTAT.LST.1
20:42:36 LPEND Summary: 9 Pages of Output
20:42:36 LPEND 4 Disk Pages Read
20:42:36 LPEND 5.357 Seconds CPU Time Used

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Faint, illegible text covering the majority of the page, appearing as bleed-through from the reverse side.