

LABEL 000000000PRINTER00175098CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/STATS3;END+

OBJECT /READ

SYMBOL/STATS3

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BEGIN% STANDARD SYSTEM SYSTEM-STATISTICS FILE ANALYSIS.

COMMENT: * TITLE: B5500/B5700 MARK XIV SYSTEM RELEASE

* FILE ID: SYMBOL/STATS3 TAPE ID: SYMBOL2/FILE000

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* AA320206 AA386657

FILE PRINT 4(2,15),

DISK DISK SERIAL (2,60,60),

CARD (2,10);

%----- FORMATS -----

FORMAT F(A6,"=",F6.2,"%",A1,I8),AF(A1),

FS(A6,"=",2(F6.2,"%",A1,I8,""),F4.1),

HD (X8,"% OF I/O",X3,"# I/O",X5,"% OF CHAR",X1,"TOTAL SEGS",X3,
"SEG/I/O"),

DW("AVG. DISK DELAY = ",F7.3," SECS."),

TD("TOTAL DISK DELAY = ",F7.3," MINS."),

H(A6,X2,F6.2,"%"),

TM("TIME SINCE LAST HALT/LOAD IS ",I2," HOURS AND ",

I2," MINUTES"),L("STATISTICS FROM ",I2," ON ",0,

" TO ",I2," ON ",0,""),G(A6,X2,2(F6.2,"% ")),

N("/"NORMALIZED"/),BI("/" BUSY IDLE"/),

DISKHDR("DISK AND NON-ECM I/O ACTIVITY"),

AUXMEMIHDR("AUXMEM I/O ACTIVITY -"),

SYSTEMHDR("SYSTEM ACTIVITY -"),

IOHDR1("DISK I/O-"),

IOHDR2("OTHER I/O-"),

IOHDR3("TOTAL I/O-"),

UNDERLINE("-----"),

TOTALHDR("TOTAL(DISK AND AUXMEM) I/O ACTIVITY -");

%-----

ARRAY A[0:61],LOG[0:1],SUMSTAT[0:60];

REAL TOTAL,SEGTOT,Y,I,STARTIME,ENDTIME,AP2;

REAL OTHERIO,TOTIO,DISKTOTAL;

BOOLEAN RUNTOTAL,SEGS,ENDTOG,BEGINTOG;

LABEL EOF,DOAGAIN;

%-----

STREAM PROCEDURE SCANFILE(LOG);

BEGIN REAL LOCAL2,LOCAL1;

SI:=LOG; DI:=LOC LOCAL1;

DI:=DI+1;

7(IF SC="/" THEN DS:=LIT" " ELSE DS:= CHR);

SI:=SI+1; DI:=DI+1;

DS:=7 CHR;

SI:=LOC LOCAL1; DI:=LOG;

DS:=16 CHR;

END;

%-----

PROCEDURE PP(P1,P2,P3);VALUE P1,P2,P3; REAL P1,P2,P3;

BEGIN

AP2:=A[ABS(P2)];

IF P2 LSS 0 THEN BEGIN P2:=ABS(P2); A[P2]:=AP2.[1:23] END ELSE

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	A[P2]:=AP2.[24:24];	00005100
	IF A[P2] NEQ 0 THEN	00005200
	IF P3=0 THEN	00005300
1	WRITE(PRINT,G,P1,A[P2]/TOTAL*100,(TOTAL-A[P2])/TOTAL*100)	00005400
2	ELSE	00005500
3	WRITE(PRINT,H,P1,A[P2]/TOTAL*100);	00005600
4	A[P2]:=AP2;	00005700
5	END;	00005800
6	%-----	00005900
7	PROCEDURE R(R1,R2); VALUE R1,R2; REAL R1,R2;	00006000
8	BEGIN REAL AR2;	00006100
9	AR2:=A[ABS(R2)];	00006200
10	IF R2 LSS 0 THEN BEGIN R2:=ABS(R2); A[R2]:=AR2.[1:23] END ELSE	00006300
11	A[R2]:=AR2.[24:24];	00006400
12	IF A[R2] NEQ 0 THEN	00006500
13	BEGIN IF RUNTOTAL THEN A[0]:=A[0]-A[R2];	00006600
14	IF RUNTOTAL THEN A[30]:=A[30]-A[R2+30];	00006700
15	IF SEGS THEN	00006800
16	BEGIN	00006900
17	WRITE(PRINT,FS,R1,(A[R2]/TOTAL*100),"",A[R2],	00007000
18	(A[R2+30]/SEGTOT*100),"",A[R2+30],(A[R2+30]/A[R2]));	00007100
19	END ELSE	00007200
20	WRITE(PRINT,F,R1,A[R2]/TOTAL*100,Y,A[R2]);	00007300
21	END;	00007400
22	A[R2]:=AR2;	00007500
23	END;	00007600
24	%-----	00007700
25	DEFINE	00007800
26	P(P1,P2)=PP(P1,P2,0);	00007900
27	Q(Q1,Q2,Q3)=R(Q1,Q3); A[Q3]:=TOTAL-A[Q3]; R(Q2,Q3);#;	00008000
28	BK=WRITE(PRINT)#;	00008100
29		00008200
30	%----- MAIN BODY -----	00008300
31		00008400
32	READ(CARD,2,LOG[*]);	00008500
33	SCANFILE(LOG);	00008600
34	FILL DISK WITH LOG[0],LOG[1];	00008700
35	BEGINTOG:=TRUE;	00008800
36	DOAGAIN:	00008900
37	READ (DISK,60,A[*])[EOF];	00009000
38	IF A[0] = REAL(NOT FALSE) THEN	00009100
39		00009200
40	BEGIN	00009300
41	FOR I:=0 STEP 1 UNTIL 59 DO A[I]:=SUMSTAT[I];	00009400
42	A[29]:=ENDTIME;	00009500
43	ENDTOG:=TRUE;	00009600
44	END ELSE	00009700
45	BEGIN	00009800
46	IF BEGINTOG THEN BEGIN STARTIME:=A[47]; BEGINTOG:=FALSE END;	00009900
47	FOR I:=0 STEP 1 UNTIL 27 DO SUMSTAT[I]:=SUMSTAT[I]+A[I];	00010000
48	FOR I:=30 STEP 1 UNTIL 46 DO SUMSTAT[I]:=SUMSTAT[I]+A[I];	00010100
49	FOR I:=48 STEP 1 UNTIL 59 DO SUMSTAT[I]:=SUMSTAT[I]+A[I];	00010200
50	SUMSTAT[28]:=A[28];	00010300
51	END;	00010400
52		00010500
53	BK; WRITE(PRINT[PAGE]);	00010600
54	WRITE(PRINT,TM,A[1] DIV 216000,A[1]/3600 MOD 60);	00010700
55	IF ENDTOG THEN	00010800
56	WRITE(PRINT,L,STARTIME DIV 216000, STARTIME/	00010900
57	3600 MOD 60,A[28],A[29] DIV 216000,A[29]/3600 MOD 60,A[28])	00011000

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ELSE
WRITE(PRINT,L,A[47] DIV 216000,A[47]/3600 MOD 60,
A[28],A[29] DIV 216000,A[29]/3600 MOD 60,A[28]);
1 A[0]:=MAX(A[0],A[2]);
2 DISKTOTAL:=TOTAL:=A[0];
3 SEGTOT:=A[30];
4 TOTIO:=A[0]+(OTHERIO:=A[58],[1:23]+A[58],[24:24]+
5 A[59],[1:23]+A[59],[24:24]);
6 BK;
7 WRITE(PRINT,DW,A[32]/TOTAL/60);
8 WRITE(PRINT,TD,A[32]/3600);
9 BK;
10 WRITE(PRINT,DISKHDR);
11 WRITE(PRINT,UNDERLINE);
12 BK;
13 WRITE (PRINT,HD);
14 BK;
15 SEGS:=TRUE; R("TOTAL ",0); SEGS:=FALSE;
16 Y:=", ";
17 BK;
18 Q("DKA ", "DKB ",2);
19 BK;
20 R("EU 0 ",4);
21 R("EU 1 ",4);
22 R("EU 2 ",5);
23 R("EU 3 ",5);
24 BK;
25 WRITE(PRINT,IOHDR1);
26 BK;
27 R("IO 1 ",35);
28 R("IO 2 ",36);
29 R("IO 3 ",-35);
30 R("IO 4 ",-36);
31 BK;
32 WRITE(PRINT,IOHDR2);
33 BK;
34 TOTAL:=OTHERIO;
35 R("IO 1 ",58);
36 R("IO 2 ",59);
37 R("IO 3 ",-58);
38 R("IO 4 ",-59);
39 BK;
40 WRITE(PRINT,IOHDR3);
41 TOTAL:=TOTIO;
42 BK;
43 A[58],[24:24]:=A[58],[24:24]+A[35],[24:24];
44 A[59],[24:24]:=A[59],[24:24]+A[36],[24:24];
45 A[58],[1:23]:=A[58],[1:23]+A[35],[1:23];
46 A[59],[1:23]:=A[59],[1:23]+A[36],[1:23];
47 R("IO 1 ",58);
48 R("IO 2 ",59);
49 R("IO 3 ",-58);
50 R("IO 4 ",-59);
51 BK;
52 TOTAL:=A[0];
53 BK;
54 Q("NORMAL","CONTRL",9);
55 BK;
56 RUNTOTAL:=TRUE;
57 SEGS:=TRUE;

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	R("ESP ",11);	00017100
	R("DIRECT",12);	00017200
	R("HEADER",25);	00017300
1	R("NAMES ",26);	00017400
2	R("LOG ",24);	00017500
3	R("LIBRY ",18);	00017600
4	BK;	00017700
5	R("CODE M",10);	00017800
6	BK;	00017900
7	R("CODE ",20);	00018000
8	R("DATA ",22);	00018100
9	BK;	00018200
10	R("FILES ",27);	00018300
11	RUNTOTAL:=FALSE;	00018400
12	BK;	00018500
13	R("OTHER ",0);	00018600
14	SEGS:=FALSE;	00018700
15	BK;	00018800
16	WRITE(PRINT,AUXMEMIQHDR);	00018900
17	WRITE(PRINT,UNDERLINE);	00019000
18	BK;	00019100
19	WRITE(PRINT,HD);	00019200
20	BK;	00019300
21	TOTAL:=A[37]; SEGTOT:=A[49]+A[51];	00019400
22	R("AUXMEM",37);	00019500
23	SEGS:=TRUE;	00019600
24	R("CODE A",19);	00019700
25	R("DATA A",21);	00019800
26	SEGS:=FALSE;	00019900
27	A[1]:=TOTAL:=TOTAL+DISKTOTAL; SEGTOT:=SEGTOT+A[50]+A[52];	00020000
28	A[0]:=DISKTOTAL;	00020100
29	BK;	00020200
30	WRITE(PRINT,TOTALHDR);	00020300
31	BK;	00020400
32	R("TOTAL ",1);	00020500
33	R("DISK ",0);	00020600
34	R("AUXMEM",37);	00020700
35	SEGS:=TRUE;	00020800
36	R("CODE A",19);	00020900
37	R("DATA A",21);	00021000
38	SEGS:=FALSE;	00021100
39	BK;	00021200
40	WRITE(PRINT,SYSTEMHDR);	00021300
41	WRITE(PRINT,UNDERLINE);	00021400
42	BK;	00021500
43	WRITE(PRINT,BI);	00021600
44	TOTAL:=A[3];	00021700
45	P("SYSTEM",14);	00021800
46	FOR Y:=1 STEP 1 UNTIL 2 DO	00021900
47	BEGIN	00022000
48	P("AUXMEM",44);	00022100
49	P("DKA ",7); P("DKB ",8); P("BOTH ",17); P("PROC1 ",6);	00022200
50	P("NRM P1",-6); P("NRM P2",31);	00022300
51	PP("NOLAP1",39,1); PP("NOLAP2",-39,1);	00022400
52	PP("CTOLAP",43,1);	00022500
53	IF Y=1 THEN	00022600
54	BEGIN	00022700
55	WRITE(PRINT,N);	00022800
56	TOTAL:=A[14];	00022900
57	END;	00023000

END;
IF ENDTOG THEN GO TO EOF ELSE
BEGIN

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ENDTIME:=A[29];
GO TO DOAGAIN;
END;
GO TO DOAGAIN;
EOF: END,
END;END, LAST CARD ON GCRDING TAPE

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LABEL 000000000PRINTER00175098CC EX OBJECT/READ;FILE SOURCEFILE=SYMBOL/STATS3;END+

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