

MPM 74
 # users = 28
 12/3/69
 MFTN3
 4.7 f

***** MULTICS PERFORMANCE ANALYSIS *****

USER NO	COMMAND	TIME	CPU TIME	NO OF P.F.
0	login	1546	4.633	164
	edm	1555	6.723	390
	fortran	1556	5.097	228
	edm	1602	3.450	203
	fortran	1603	5.021	242
	rename	1604	1.232	63
	print	1605	.941	42
	a_prime\$prime	1607	4.110	204
	list	1608	1.207	61
	df	1609	1.283	48
	edm	1618	=.684	342
	fortran	1620	3.381	132
	edm	1625	3.978	263
	fortran	1627	3.538	151
	rename	1627	.629	33
	print	1628	.787	33
	b_prime\$prime	1630	2.187	88
	list	1631	.838	45
	df	1632	.999	63

***** SUMMARY *****

USER NO	TOTAL CPU TIME	TOTAL REAL TIME	TOTAL NO OF P.F.	NO OF INTER-ACTIONS	AVERAGE CPU TIME	AVERAGE WAIT TIME	AVERAGE NO OF P.F.
USER 0	51.085 51.085	2730 2730	2631 2631	66 66	.774 .774	—	39 39

rm\$inc apt

PDP8

777777777777	2:05.5	001100000004	756421035666	25:47.2	016101000002
756421035675	36.3	000100000002	756421043100	63:05.6	200100000002
756421042631	49.9	001100000004	756421042251	36.7	000100000002
756421043243	61:12.9	001100000004	756421042543	2.7	001100000004
756421042751	64:87.4	200100000002	756421040507	1:08.3	001100000004
756421042300	1:47.8	001100000004	756421037344	27.3	000100000002
756421042233	12.7	001100000004	756421043121	4	000100000002
756421041756	21.6	001100000004	756421042120	47.6	001100000004
756421043142	63.6	200100000002	756421043220	61:04.7	200100000002
756421041545	42.4	000100000002	756421042555	7.3	001100000004
756421042707	43.4	234100000003	756421043204	69.2	001100000004
756421042763	23.7	000100000002	756421043051	70.9	034100000002
756421040722	7.5	001100000004	756421042643	37.0	200100000002
756421042040	50.4	320100000000	756421041522	1:35.6	001100000004
756421042672	45.6	200100000002	756421042602	33.3	034100000001
756421043170	4.5	200100000002	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
r 1636 4.684 100					

tcm all
hmu
fsm
hmu

Total metering time 0:45:51

Ave queue length(X10) 144
Max eligible 3
Te min (seconds) 4
Ti max (seconds) 8

IDLE TYPE	TIME	%
Total idle	0:24:39	54
Multi-prog idle	0:24:39	54
Non-multi-prog idle	0: 0: 0	0
Zero idle	0: 0: 0	0

COUNTER	TOTAL	ATB
Loadings	916	3004
Blocks	820	3355
Wakeups	902	3050
Waits	58708	46
Notifies	127128	21
Schedulings	927	2968
Interactions	763	3606
Pre-empts	47717	57

0.0	38	38	329
0.5	29	67	738
1.0	12	79	1250
1.5	8	87	1763
2.0	13	90	2314
2.5	3	93	2782
3.0	1	94	3376
3.5	1	95	3913
4.0	1	96	4289
4.5	1	97	4932
5.0	0	97	5488
5.5	0	97	6052
6.0	0	97	6477
6.5	0	97	6797
7.0	0	97	7241
7.5	2	99	7897

DEPTH	%PF	TBPF	%GTW	TBS	%CPU
1	29	22	28	19	29
2	33	24	35	20	38
3	39	18	38	15	33

r 1639 2.352 59

26 users, 30 maximum

r 1639 .187 10

fsm

File System Meters

Deact count	29990
Ast grace	1:24.40
Used ASTs	235
Free ASTs	0
Held ASTs	124
Steps	2980056
Needc	685610
Ave.steps	4
Ceiling	10
Laps	14987
Skip wired	24409
Skip used	1922156
Skip mod	343891
Skip os	3990
No. pages	178
Wired pages	17
Drum left	588
Drum reads	593379
Drum writes	302600
Drum errors	
Non-fatal	17
Fatal	2
Disk left	2164
Disk reads	76825
Disk writes	43165
Disk errors	
Non-fatal	5
Fatal	0

r 1640 1.376 31

File System Meters

Deact count	24975
Ast grace	1:36.390
Used ASTs	238
Free ASTs	0
Held ASTs	120
Steps	2657876
Needc	611175
Ave.steps	4
Ceiling	10
Laps	13380
Skip wired	21781
Skip used	1717336
Skip mod	304058
Skip os	3526
No. pages	178
Wired pages	17
Drum left	282
Drum reads	530168
Drum writes	267620
Drum errors	
Non-fatal	17
Fatal	2
Disk left	2287
Disk reads	67029
Disk writes	38141
Disk errors	
Non-fatal	5
Fatal	0

r 1640 2.471 98

MPM75
 # users = 24
 12/4/69
 MFTN3
 4.9.

***** MULTICS PERFORMANCE ANALYSIS *****

USER NO	COMMAND	TIME	CPU TIME	NO OF P.F.
0	login	1526	4.768	147
	edm	1536	6.375	385
	fortran	1537	4.871	212
	edm	1541	3.210	219
	fortran	1542	5.161	265
	rename	1543	1.325	80
	print	1544	1.165	67
	a_prime\$prime	1545	3.782	168
	list	1546	1.050	64
	df	1547	1.208	61
	edm	1556	5.004	341
	fortran	1557	3.523	134
	edm	1602	2.845	209
	fortran	1603	3.372	137
	rename	1604	.524	38
	print	1604	.726	40
	b_prime\$prime	1606	2.397	99
	list	1607	.568	28
	df	1608	1.247	79

***** SUMMARY *****

USER NO	TOTAL CPU TIME	TOTAL REAL TIME	TOTAL NO OF P.F.	NO OF INTER-ACTIONS	AVERAGE CPU TIME	AVERAGE WAIT TIME	AVERAGE NO OF P.F.
USER 0	48.353	2490	2626	66	.732	—	39

Note: Two drum errors occurred.

MPM 75

rm\$inc apt
 tcm all
 hmu
 fsm
 hmu

777777777777	1:39.6	001100000004	756434725336	14:04.2	016101000002
756434731030	3:18.1	000100000002	756434726660	15.7	001100000004
756434732317	61.0	001100000004	756434725403	3:28.0	200100000002
756434727536	1:23.2	000100000004	756434732135	75:97.6	001100000004
756434732256	66.2	001100000004	756434726147		001100000004
756434727574	1:15.3	200100000002	756434732171	93.9	001100000004
756434730730	4:44.0	200100000002	756434731450	7	001100000004
756434730464		001100000004	756434732304	85.5	234100000002
756434727666	4.5	001100000004	756434732241	4.7	001100000004
756434731211		001100000004	756434731263	33.4	001100000004
756434732270	61:13.4	200100000002	756434731156	1:53.4	014100000002
756434732056	69.0	320100000000	756434731501	16.0	001100000004
756434732332	10.0	001100000004	756434731340	32.2	001100000004
756434731175	11.9	320100000000	756434731760	46.7	034100000001
756434732010	1.3 + 47.0	001100000004	000000000000		000000000000
000000000000	↑	000000000000	000000000000		000000000000
000000000000	PDP8	000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
r 1612	4.988	150			

Total metering time 0:45:33

Ave queue length(X10) 80
 Max eligible 3
 Te min (seconds) 4
 Ti max (seconds) 8

IDLE TYPE	TIME	%
Total idle	0:14:48	33
Multi-prog idle	0:14:48	33
Non-multi-prog idle	0: 0: 0	0
Zero idle	0: 0: 0	0

COUNTER	TOTAL	ATB
Loadings	1335	2047
Blocks	1161	2354
Wakeups	1213	2253
Waits	66460	41
Notifies	133570	20
Schedulings	1361	2008
Interactions	1034	2643
Pre-empts	52110	52

0.5	16	80	728
1.0	8	88	1233
1.5	3	91	1788
2.0	1	92	2297
2.5	1	93	2829
3.0	1	94	3317
3.5	1	95	3849
4.0	1	96	4301
4.5	1	97	4833
5.0	1	98	5353
5.5	1	99	5966
6.0	0	99	6289
6.5	0	99	6656
7.0	0	99	7348
7.5	1	100	7912

DEPTH	%PF	TBPF	%GTW	TBS	%CPU
1	38	28	33	25	40
2	32	29	34	20	33
3	30	24	33	17	27

r 1613 2.131 52

24 users, 30 maximum
r 1613 .216 12

File System Meters

Deact count	17670
Ast grace	1:14.369
Used ASTs	239
Free ASTs	0
Held ASTs	116
Steps	2758975
Needc	619054
Ave.steps	4
Ceiling	19
Laps	14000
Skip wired	42039
Skip used	1784564
Skip mod	309181
Skip os	4137
No. pages	177
Wired pages	19
Drum left	387
Drum reads	541780
Drum writes	272457
Drum errors	
Non-fatal	5
Fatal	0
Disk left	2037
Disk reads	63130
Disk writes	38470
Disk errors	
Non-fatal	3
Fatal	0

r 1615 2.018 84

24 users, 30 maximum

File System Meters

Deact count	14689
Ast grace	1:21.847
Used ASTs	238
Free ASTs	0
Held ASTs	120
Steps	2421642
Needc	541606
Ave.steps	4
Ceiling	16
Laps	12304
Skip wired	36675
Skip used	1571246
Skip mod	268419
Skip os	3696
No. pages	177
Wired pages	19
Drum left	381
Drum reads	472252
Drum writes	235997
Drum errors	
Non-fatal	3
Fatal	0
Disk left	1982
Disk reads	56434
Disk writes	34040
Disk errors	
Non-fatal	3
Fatal	0

r 1526 2.872 111

26 users, 30 maximum

MPM76
 # users = 23
 12/4/69
 MFTN3
 4.9 F

***** MULTICS PERFORMANCE ANALYSIS *****

USER NO	COMMAND	TIME	CPU TIME	NO OF P.F.
0	login	2221	4.603	133
	edm	2230	5.547	362
	fortran	2231	5.606	212
	edm	2237	3.923	251
	fortran	2239	5.125	262
	rename	2240	1.280	65
	print	2240	1.133	76
	a_prime\$prime	2242	3.837	160
	list	2243	1.508	86
	df	2244	1.363	72
	edm	2254	5.872	362
	fortran	2255	3.456	136
	edm	2301	3.618	224
	fortran	2302	3.618	160
	rename	2302	.618	33
	print	2303	.894	47
	b_prime\$prime	2305	2.401	103
	list	2306	.673	26
	df	2307	1.354	86
	logout			

***** SUMMARY *****

USER NO	TOTAL CPU TIME	TOTAL REAL TIME	TOTAL NO OF P.F.	NO OF INTER-ACTIONS	AVERAGE CPU TIME	AVERAGE WAIT TIME	AVERAGE NO OF P.F.
USER 0	52.826	2730	2723	66	.800	—	41

Notes: ① This measurement was done at night, 23 night-time users might be equivalent to 26 or 27 daytime users.
 ② One dice error occurred.

MPM76

rm\$inc apt
tcm all
hmu
fsm
hmu

???????????????	2:30.5	000100000004	756441530234	19:23.6	016101000002
756441530243	2:04.4	234100000003	756441530261	1:38.0	000100000002
756441532275	92.4	001100000004	756441532110	45.0	200100000002
756441530357	31.4	001100000004	756441531665	1:49.8	000100000002
756441530427	1:15.3	320100000000	756441532170	61:75.5	034100000002
756441531501	12.0	001100000004	756441530500	16.1	001100000004
756441530642	26.7	200100000002	756441532335	62.8	100100000000
756441531261	32.2	200100000002	756441532001	55.3	034100000001
756441531340	51.4	100100000000	756441531352	2:17.1	000100000002
756441531372	1:12.3	001100000004	756441531677	1:39.9	001100000004
756441531427	50.8	001100000004	756441531463	25.6	200100000002
756441532046	53.5	001100000004	756441531763	1:29.4	000100000002
756441532372	66.3	200100000002	756441532215	1:14.9	000100000002
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
r 2310	5.863	149			

Total metering time 0:49:36

Ave queue length(X10) 102
 Max eligible 3
 Te min (seconds) 4
 Ti max (seconds) 8

IDLE TYPE	TIME	%
Total idle	0:19:52	40
Multi-prog idle	0:19:52	40
Non-multi-prog idle	0: 0: 0	0
Zero idle	0: 0: 0	0

COUNTER	TOTAL	ATB
Loadings	1298	2292
Blocks	1154	2579
Wakeups	1178	2526
Waits	76219	39
Notifies	152503	19
Schedulings	1310	2271
Interactions	1053	2826
Pre-emots	58517	50

Time	min	sec	ave
0.0	50	50	342
0.5	24	74	736
1.0	9	83	1259
1.5	5	88	1780
2.0	2	90	2275
2.5	2	92	2811
3.0	1	93	3405
3.5	1	94	3832
4.0	0	94	4429
4.5	1	95	4799
5.0	1	96	5449
5.5	0	96	5820
6.0	0	96	6246
6.5	0	96	6977
7.0	0	96	7331
7.5	3	99	7936

DEPTH	%PF	TBPF	%GTW	TBS	%CPU
1	34	25	32	22	38
2	32	25	35	19	35
3	34	18	33	15	27

r 2311 2.119 33

19 users, 30 maximum
r 2312 .311 20

File System Meters

Deact count	7025
Ast grace	1:21.493
Used ASTs	249
Free ASTs	0
Held ASTs	96
Steps	1262760
Needc	281441
Ave.steps	4
Ceiling	1
Laps	6421
Skip wired	19021
Skip used	822317
Skip mod	138624
Skip os	1357
Nc. pages	177
Wired pages	19
Drum left	665
Drum reads	248940
Drum writes	124030
Drum errors	
Non-fatal	2
Fatal	0
Disk left	2003
Disk reads	26040
Disk writes	15362
Disk errors	
Non-fatal	13
Fatal	0

r 2313 1.442 31

File System Meters

Deact count	3333
Ast grace	2:12.212
Used ASTs	243
Free ASTs	0
Held ASTs	108
Steps	883317
Needc	194008
Ave.steps	4
Ceiling	1
Laps	4516
Skip wired	13114
Skip used	583050
Skip mod	92271
Skip os	874
No. pages	177
Wired pages	19
Drum left	799
Drum reads	170917
Drum writes	82368
Drum errors	
Non-fatal	2
Fatal	0
Disk left	1979
Disk reads	18029
Disk writes	10514
Disk errors	
Non-fatal	12
Fatal	0

r 2220 2.971 140

MPM77
 # users = 25
 12/12/69
 MFTN3
 4.9 F

***** MULTICS PERFORMANCE ANALYSIS *****

USER NO	COMMAND	TIME	CPU TIME	NO OF P.F.
0	login	1329	5.718	197
	edm	1339	6.531	409
	fortran	1341	5.632	231
	edm	1346	3.759	244
	fortran	1347	4.909	240
	rename	1348	1.049	40
	print	1349	.966	50
	a_prime\$prime	1350	3.447	124
	list	1351	1.213	58
	df	1352	1.772	95
	edm	1401	6.227	352
	fortran	1402	3.590	153
	edm	1407	4.058	231
	fortran	1408	3.955	148
	rename	1409	.784	45
	print	1410	.866	35
	b_prime\$prime	1412	2.322	87
list	1413	.860	44	
df	1414	.777	38	
	logout			

***** SUMMARY *****

USER NO	TOTAL CPU TIME	TOTAL REAL TIME	TOTAL NO OF P.F.	NO OF INTER-ACTIONS	AVERAGE CPU TIME	AVERAGE WAIT TIME	AVERAGE NO OF P.F.
USER 0	52.717	2670	2624	66	.798	—	39

Note = 1 drum error and 1 disk error occurred.

MPM177

rm\$inc apt
tcm all
fsm
hmu

777777777777	5:06.1	234100000003	756557152460	17:35.5	016101000002
756557152467	36.4	000100000002	756557152545	36.0	200100000002
756557152513	1:20.2	200100000002	756557153237	62:07.1	200100000002
756557152617	28.9	200100000002	756557152632	36.0	000100000002
756557152657	48.1	034100000003	756557152671	28.4	000100000002
756557152704	45.1	000100000002	756557152721	45.3	000100000002
756557153610	1	200100000002	756557152771	27.4	000100000002
756557153022	34.3	001100000004	756557153072	1:00.4	034100000001
756557153547	32.2	000100000002	756557153123	36.1	200100000002
756557153140	53.3	320100000005	756557153165	1:07.
756557153712	7.2	001100000004	756557153252	1:01.9	200100000002
756557153264	37.5	001100000004	756557153435	42.9	200100000002
756557153667	22.6	000100000002	756557153415	1:00.3	000100000002
756557153653	15.2	200100000002	756557153505	43.9	200100000002
75v557q53641	19.3	003100000004	756557153767	4.2	200100000002
756557153744	12.0	200100000002	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
r 1419	7.261	206			

Total metering time 0:51: 6

Ave queue length(X10) 192 ← very long
 Max eligible 3
 Te min (seconds) 4
 Tl max (seconds) 8

IDLE TYPE	TIME	%
Total idle	0:19:42	39
Multi-prog idle	019:42	39
Non-multi-prog idle	0: 0: 0	0
Zero idle	0: 0: 0	0

COUNTER	TOTAL	ATB
Loadings	1247	2459
Blocks	1094	2803
Wakeups	1162	2639
Waits	71586	42
Notifies	156344	19
Schedulings	1272	2410
Interactions	976	3142
Pre-empts	54218	56

TIME PERCENT Accum Ave

0.0	48	48	322
0.5	23	71	726
1.0	11	82	1271
1.5	5	87	1795
2.0	2	89	2339
2.5	1	90	2840
3.0	2	92	3352
3.5	1	93	3806
4.0	1	94	4348
4.5	1	95	4900
5.0	1	96	5419
5.5	1	97	5911
6.0	0	97	6302
6.5	0	97	6958
7.0	0	97	7567
7.5	2	99	7940

DEPTH	%PF	TBPF	%GTW	TBS	%CPU
1	35	30	33	26	41
2	32	27	34	20	34
3	32	20	33	16	25

r 1420 2.638 53

File System Meters

Deact count	4819
Ast grace	0:52.79
Used ASTs	227
Free ASTs	0
Held ASTs	140
Steps	556652
Needc	119788
Ave.steps	4
Ceiling	0
Laps	2829
Skip wired	9008
Skip used	365395
Skip mod	61737
Skip os	724
No. pages	177
Wired pages	19
Drum left	526
Drum reads	105199
Drum writes	54447
Drum errors	
Non-fatal	2
Fatal	0
Disk left	1658
Disk reads	10916
Disk writes	7510
Disk errors	
Non-fatal	1
Fatal	0

r 1421 2.058 55

30 users, 30 maximum
r 1421 .227 8

File System Meters

Deact count	351
Ast grace	4:58.536
Used ASTs	258
Free ASTs	0
Held ASTs	80
Steps	172843
Needc	36606
Ave.steps	4
Ceiling	0
Laps	890
Skip wired	2911
Skip used	110376
Skip mod	16777
Skip os	173
No. pages	177
Wired pages	19
Drum left	1237
Drum reads	31796
Drum writes	14701
Drum errors	
Non-fatal	1
Fatal	0
Disk left	1673
Disk reads	2973
Disk writes	2180
Disk errors	
Non-fatal	0
Fatal	0

r 1326 2.339 78

15 users, 30 maximum
r 1326 .107 5

MPM78
 #users = 26
 12/15/69
 MFTN3
 4.9F

***** MULTICS PERFORMANCE ANALYSIS *****

USER NO	COMMAND	TIME	CPU TIME	NO OF P.F.
0	login	1347	5.156	178
	edm	1357	6.210	344
	fortran	1359	5.079	149
	edm	1405	3.972	226
	fortran	1407	5.545	264
	rename	1408	1.199	61
	print	1409	.994	49
	a_prime\$prime	1411	3.725	142
	list	1411	1.005	50
	dr	1412	1.367	73
	edm	1422	5.474	334
	fortran	1423	4.221	176
	edm	1428	4.478	240
	fortran	1429	3.676	138
	rename	1430	.663	39
	print	1431	.922	45
	b_prime\$prime	1432	2.232	88
	list	1433	.813	44
	df	1434	.795	44
	logout			

***** SUMMARY *****

USER NO	TOTAL CPU TIME	TOTAL REAL TIME	TOTAL NO OF P.F.	NO OF INTER-ACTIONS	AVERAGE CPU TIME	AVERAGE WAIT TIME	AVERAGE NO OF P.F.
USER 0	52.370	2790	2506	66	.793	—	37

rm\$inc apt
 tcm all
 fsm
 hmu

MPM78

777777777777	4:02.3	234100000003	756615417120	19:20.1	016101000002
756615417127	18.9	001100000004	756615417141	54.3	000100000004
756615417153	24.2	000100000002	756615417202	16.1	200100000002
756615420170	74.8	000100000002	756615420527	68.8	320100000005
756615417245	39.6	001100000004	756615417770	26.7	001100000004
756615417311	51.7	034100000001	756615420211	1.6	001100000004
756615417335	1:10.2	001100000004	756615417347	13.1	200100000002
756615417404	16.0	000100000002	756615417424	47.1	000100000002
756615417471	55.9	001100000004	756615417506	51.2	000100000002
756615420424	73.0	100100000000	756615417534	1:02.8	000100000002
756615420363	19.3	001100000004	756615417621	1:00.7	001100000004
756615420066	34.9	001100000004	756615417671	46.8	034100000002
PDFS 756615417706	0.9 + <u>51.4</u>	320100000000	756615420437	19.7	000100000002
756615420045	44.1	200100000002	756615420376	31.1	001100000004
756615420135	38.2	000100000002	756615420152	44.7	001100000004
756615420453	17.5	300100000000	756615420471	9.0	320100000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
000000000000		000000000000	000000000000		000000000000
r 1437	5.183	94			

Total metering time 0:50:14

Ave queue length(X10) 155
 Max eligible 3
 Te min (seconds) 4
 Tl max (seconds) 8

IDLE TYPE	TIME	%
Total idle	0:20:27	41
Multi-prog idle	0:20:27	41
Non-multi-prog idle	0: 0: 0	0
Zero idle	0: 0: 0	0

COUNTER	TOTAL	ATB
Loadings	1335	2257
Blocks	1198	2515
Wakeups	1261	2390
Waits	71675	42
Notifies	159042	18
Schedulings	1364	2209
Interactions	1110	2715
Pre-empts	54757	55

0.0	45	45	319
0.5	27	72	755
1.0	10	82	1233
1.5	5	87	1761
2.0	3	90	2285
2.5	2	92	2849
3.0	2	94	3215
3.5	0	94	3744
4.0	1	95	4402
4.5	0	95	4885
5.0	1	96	5309
5.5	0	96	5915
6.0	0	96	6462
6.5	1	97	6887
7.0	0	97	7588
7.5	3	100	7906

DEPTH	%PF	TBPF	%GTW	TBS	%CPU
1	33	27	31	24	37
2	32	27	34	21	35
3	35	19	35	16	28

r 1440 2.844 68

File System Meters

Deact count	5373
Ast grace	0:40.494
Used ASTs	235
Free ASTs	0
Held ASTs	124
Steps	563736
Needs	122618
Ave.steps	4
Ceiling	4
Laps	2853
Skip wired	8904
Skip used	366091
Skip mod	65057
Skip os	1066
No. pages	177
Wired pages	19
Drum left	875
Drum reads	107225
Drum writes	57352
Drum errors	
Non-fatal	0
Fatal	0
Disk left	1643
Disk reads	11764
Disk writes	8103
Disk errors	
Non-fatal	0
Fatal	0

r 1441 1.870 51

27 users, 30 maximum
r 1441 .216 11

File System Meters

Deact count	446
Ast grace	2:54.363
Used ASTs	249
Free ASTs	0
Held ASTs	96
Steps	158287
Needs	33553
Ave.steps	4
Ceiling	0
Laps	813
Skip wired	2448
Skip used	105990
Skip mod	15935
Skip os	361
No. pages	177
Wired pages	19
Drum left	1338
Drum reads	28852
Drum writes	13693
Drum errors	
Non-fatal	0
Fatal	0
Disk left	1616
Disk reads	3201
Disk writes	2386
Disk errors	
Non-fatal	0
Fatal	0

r 1343 2.618 118

21 users, 30 maximum
r 1343 .145 5