











					TH	E DATABASE ADMINISTRAT
		\mathcal{UN}	ΊX			
	vmstat 2 15	5 : systen	n/use	er/idle (CPU	
VPN-db1a - S) _ O X
oracleft /home/ora procs 2 0 2 2 0 4 0 5 0 4 0 3 0 7 0 3 1 5 0 5 0 6 0 4 0 3 0 7	<pre>Lirety_dbla—>(tket) scle>vmstat 2 18memory gmd free buff c 0 38192 431356 24 0 37424 432136 24 0 37424 432136 24 0 2424 4321488 24 0 29072 433483 24 0 20072 433483 24 0 20072 4344256 24 0 28512 345840 24 0 28512 345840 24 0 28520 347450 24 0 78608 346660 24 0 98220 347450 24 0 98220 347450 24 0 98230 347450 24 0 9826 349664 24 0 94508 3484956 24 0 94508 348495 24 0 94508 349656 24 0 94508 34956524 0 94508 34956224 0 94508 34956224 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 3495624 0 94508 34952 24 0 102193 535224 24 0 102194 353032 24 Lirety_dbla—>(tket) acle></pre>	*** Production ** SWap ache si so 75140 0 0 75448 0 0 75428 0 0 75434 0 0 75448 0 0 75448 0 0 75470 0 0 73712 0 0 73775 0 0 7376 0 0 73892 0 0 73892 0 0 74632 0 0 86920 0 0 86932 0 0 86932 0 0 86932 0 0 ** Production **	* 	bo in cs 1 109 2 1 109 2 1 109 733 212 1099 733 212 1099 733 214 1099 733 204 1173 27854 806 1278 14252 410 1120 649 952 1464 2567 410 1120 649 836 1556 1581 836 1556 1581 836 1556 1581 129 732 121 129 428 129 428 1501 159 1293 478 1501 1591 282 1113 794 156 1107 1225 104 1098 1425 104 1098 1425	Cpu 17 7 72 44 6 49 62 19 19 51 25 24 47 16 37 72 28 0 87 13 0 88 12 0 90 10 0 83 16 0 86 13 0 86 14 0 92 6 0 90 6 4 90 6 4 73 2 25	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1/nome/ora			55	h2: AES-121 25, 15 25 Rd	ws. 85 Cols VT100	

top (topas AIX): who are t	the biggest consumers
🕾 VPN-db1a - SecureCRT	
top - 09:44:20 up 64 days, 20:59, 3 users, Tasks: 237 total, 3 running, 234 sleeping Cpu(s): 46.8% us, 9.0% sy, 0.0% ni, 40.9% Mem: 4040456k total, 3973832k used, 6 Swap: 0k total, 0k used,	load average: 4.46, 4.70, 4.86 , 0 stopped, 2 <u>combie</u> id, 0.2% wa, 0.0% hi, 3.1% si 6624k free, 410684k buffers 0k free, 2452524k cached
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PU XMEM TIME+ COMMAND .9 0.0 384:51.33 gzip .9 7.5 89:51.15 oracle .6 0.3 89:51.15 oracle .6 0.3 89:51.15 oracle .6 1.2 10132:54 opmn .0 1.0 0:37.65 oracle .3 0.0 0:01.47 top .0 0.0 0:18.17 migration/0 .0 0.0 0:18.17 migration/1 .0 0.0 16:14.22 ksoftirgd/0 .0 0.0 16:14.22 ksoftirgd/1 .0 0.0 16:14.22 ksoftirgd/2 .0 0.0 0:16:87 migration/2 .0 0.0 0:16:85 migration/3 .0 0.0 0:16:85 migration/3 .0 0.0 0:16:85 migration/3 .0 0.0 0:16:85 migration/3 .0 0.0
11 root 5 -10 0 0 0 S 0 12 root 5 -10 0 0 0 S 0	.0 0.0 55:33.11 events/1
Ready	ssh2: AES-12t 6, 1 25 Rows, 78 Cols WT100
8 Michael S. Abbey — Triaging	a Database Slowdown







In G	eneral
SQL> select * from HOLDING_SESSION	n dba_blockers;
1201	
SQL> desc dba_bloc	ckers
Name	Туре
HOLDING_SESSION	NUMBER
12 Michael S. Abbey — Triag	ing a Database Slowdown























	7					THE DA	
	latch latch	free free	12 14	buffer	busy	waits	2
	latch	free	б				
	latch	free	9	buffer	busy	waits	1
	latch	free	2	buffer	busy	waits	1
	latch	free	1	buffer	busy	waits	9
	latch	free	9	buffer	busy	waits	2
	latch	free	2	buffer	busy	waits	2
	latch	free	2				
24	Michae	el S. Abl	rey —	Triaging a D	atabase .	Slowdown	

Ntiret buffer busy waits latch free 2 2 latch free 1 buffer busy waits 1 buffer busy waits 1 latch free 1 buffer busy waits 2 latch free 2 Michael S. Abbey — Triaging a Database Slowdown 25



Ntire Where? select d.tablespace_name, sum(x.count) total_waits, sum(x.time) time waited from sys.x\$kcbfwait x, sys.dba_data_files d where x.inst_id = userenv('Instance') and x.count > 0and x.indx + 1 = d.file idgroup by d.tablespace_name order by 3 desc; Michael S. Abbey — Triaging a Database Slowdown 27











