Subject: How to increase SHMMAX for virtual OS?
Posted by Siaco on Thu, 16 Nov 2006 08:17:49 GMT
View Forum Message <> Reply to Message

Hi.

I'm trying to run PostgreSQL on virtual system and I need to increase SHMMAX to be able to assign a higher than default value for shared_buffers parameter (essential for performance). I've tried to increase 'shmpages' parameter, but I suppose that I did not calculate peges to bytes properly. Or, maybe, do I have to change other parameters too?

Error message during starting postgreSQL with too high shared_buffers value is typical for too low shmmax (in real OS). PostgreSQL cannot start even at shared_buffers set to 4000 (in 8KB pages -> 32 MB). The requested segment size is 36184064.

And here are my kernel settings. Most of them calculated by vzsplit, shmpages changed manually.

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
110:	kmemsize	2074026	4280348	69857006	76842706	0
	lockedpages	0	0	3410	3410	0
	privvmpages	2107	22409	153494	168843	0
	shmpages	0	6794	46184064	46184064	0
	dummy	0	0	0	0	0
	numproc	19	44	2666	2666	0
	physpages	1184	15973	0	9223372036854775807	0
	vmguarpages	0	0	153494	9223372036854775807	0
	oomguarpages	1184	15973	153494	9223372036854775807	0
	numtcpsock	5	6	2666	2666	0
	numflock	3	4	1000	1100	0
	numpty	0	1	266	266	0
	numsiginfo	0	3	1024	1024	0
	tcpsndbuf	86880	0	12365733	23285669	0
	tcprcvbuf	81920	0	12365733	23285669	0
	othersockbuf	35464	49936	6182866	17102802	0
	dgramrcvbuf	0	9680	6182866	6182866	0
	numothersock	21	32	2666	2666	0

dcachesize	0	0	15246664	15704064	0
numfile	1134	2098	27264	27264	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	10	10	200	200	0

Is there a more advanced howto about setting kernel parameters?

R.
