

PARTITION IMPACT ON WASH SIZE

Default wash marker = 20% of pool size for pools < 300MB; 60MB for pools > 300MB

Partitions	350MB 2K	50MB 4K	100MB 16K	Comments
1	290+60MB	40+10MB	70+20MB	
2	140+35MB	20+5MB	40+10MB	
4	70+17.5MB	10+2.5MB	20+5MB	
8	35+8.7MB	5+1.2MB	10+2.5MB	
16	17.5+4.3MB	2.5+0.6MB	5+1.2MB	
32	8.7+2.2MB	1.2+0.3MB	2.5+0.6MB	
64	4.3+1.1MB	640+160KB	1.2+0.3MB	
	20KB	40KB	160KB	Minimum wash area size

Based on hypothetical pool sizes of a 500MB cache. Pool memory format is N+M; where N is non-wash cache and M is wash area size.

Think about it:

- Tempdb does a lot of table scans, create index and select/into's - all large IO available operations.
- A single tempdb cache with a large number of cache partitions may drive tempdb IO higher than desired for 8x pool (16K) due to smaller cachelet sizes/wash area.
- If a lot of tempdb IO, check pool activity with monCachePool or sp_sysmon and consider increasing the 8x (16K) pool size.