

SQL ActiveModules Update Query

Analysis for November 7, 2017 up to 3:00 PM

This is the #1 query in terms of total execution time.

- It ran for 102 minutes (across all executions).
- It took 20.5% of total instance execution time.

```

(@P1 int,@P2 int,@P3 int,@P4 nvarchar(7),@P5 int,@P6 int,@P7 int,@P8 int,@P9 int,@P10
int,@P11 int)
(@P12 int)
UPDATE 'mipacs_cache_db'.ActiveModules_T
SET 'Module1'=@P1,
'Module2'=@P2
WHERE 'ComputerID'=@P3
AND 'ComputerName'=@P4
AND 'Module1'=@P5
AND 'Module2'=@P6
AND 'Module3'=@P7
AND 'Module4'=@P8
AND 'Module5'=@P9
AND 'Module6'=@P10
AND 'Module7'=@P11
AND 'Module8'=@P12
    
```

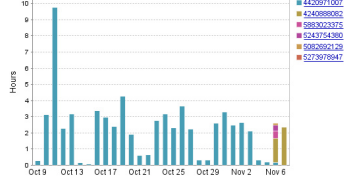
Advice For This Query



Used multiple plans

- Plan 4240888002
- Plan 5883023375
- Plan 5243754380
- Plan 4420971007
- Plan 5062692129
- Plan 5275978947

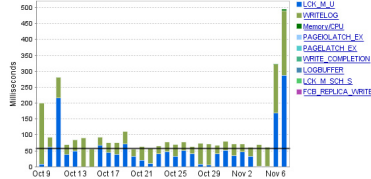
Top Plans for SQL Statement ActiveModules Update Query



Is slower because some wait activities are suddenly taking higher percentage of time

- LCK\_M\_U (53.7% of the query's total response time)

Average Wait Time per Execution for SQL ActiveModules Update Query



Is taking longer than normal to execute

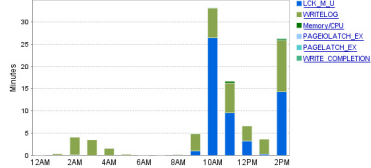
- Average execution time of 0.404 seconds
- Historical average of 0.094 seconds (Oct 9 to Nov 6)



Was blocked by other sessions, particularly during certain hours

- 10AM-11AM (26.4 minutes)
- 2PM-3PM (14.2 minutes)
- 11AM-12PM (9.52 minutes)
- 12PM-1PM (193 seconds)
- 9AM-10AM (57 seconds)
- 8AM-9AM (3 seconds)
- 12AM-1AM (1 seconds)

Total Wait Time for SQL ActiveModules Update Query | November 7, 2017  
Daily Time Range: 12:00 AM-3:00 PM



Spent a significant amount of time on these wait activities

- LCK\_M\_U (54.9 minutes)
- WRITELOG (45.9 minutes)



Accounted for greater execution time in some hours

- 10AM-11AM (33.3 minutes)
- 11AM-12PM (16.7 minutes)
- 2PM-3PM (26.4 minutes)

Supporting Data

Databases:	mipacs_cache_db
Database Users:	MIPACS, sa
Machines:	G02X12, G1S0X12, G1X1X12, plus 53 more
Programs:	MIPACS Dental Enterprise Viewer 3

SQL Statistics For Analysis Period

Statistic	Value	per Execution
Executions	15,160	
Logical Reads	277,895	18.3
Logical Writes	62	0.004
Physical Reads	0	0
Rows Processed	15,160	1

Run Date: November 7, 2017 3:15 PM