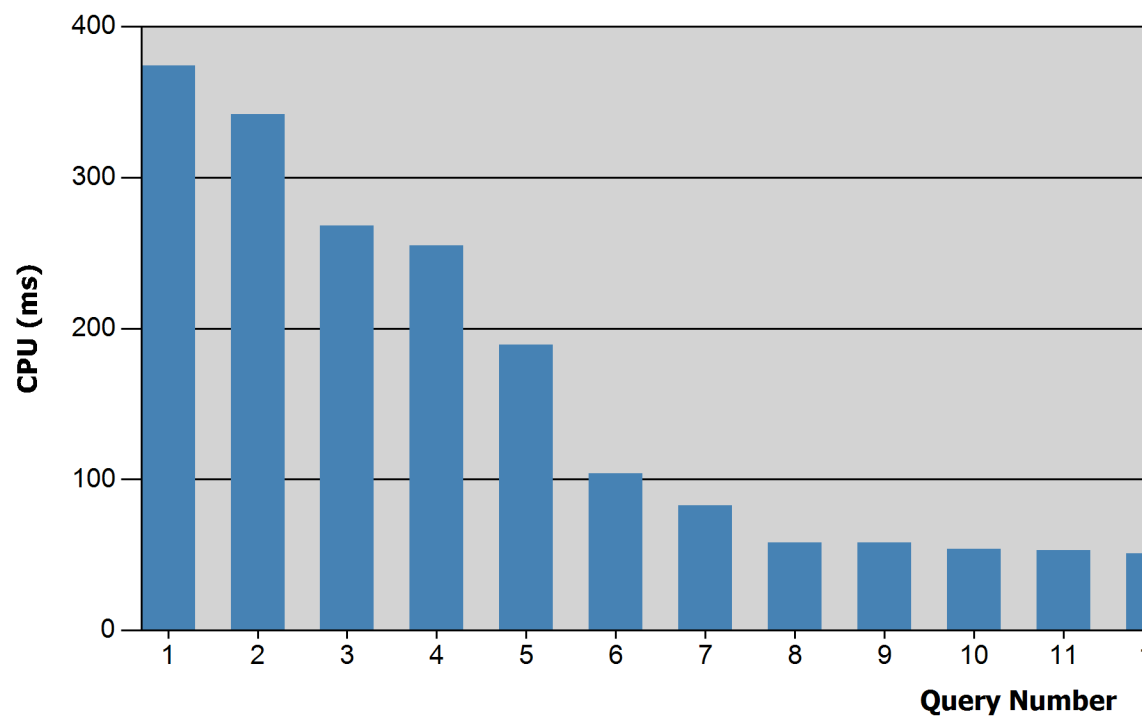# Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

This report shows the aggregate values for the top 20 cached queries which have accumulated the most CPU. Values are aggrega
sys.dm_exec_query_stats sharing the same query_hash value (i.e., same basic query after ignoring literals).
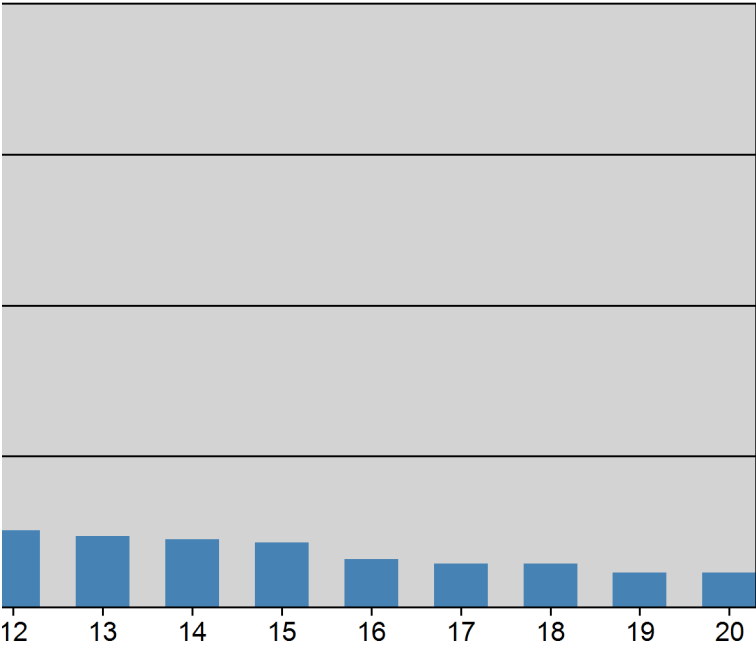
Queries with Highest CPU

Query Number
1

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

ated for all rows in

Representative Query
SELECT CAST(COLLATIONPROPERTY(name, 'LCID') AS int) AS [LocaleID] FROM sys.fn_helpcollations() cl WHERE (cl.name=@_msparam_0)

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

Total Executes	Cached Query Count	Unique Plan Count	Highest Plan Generation	Earliest Plan Cached	Cumulat	
					Total	Max
26	1	1	1	12/19/2017 8:58:44 AM	374.989	23

Expensive Queries - CPU (Cumulative Data)

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ive CPU (ms)			Cumulative Duration (ms)	Cumulative Physical Reads	Cumulative Logical Reads
	Avg	Min	Total	Total	Total
.784	14.422	10.001	375.991	0	0

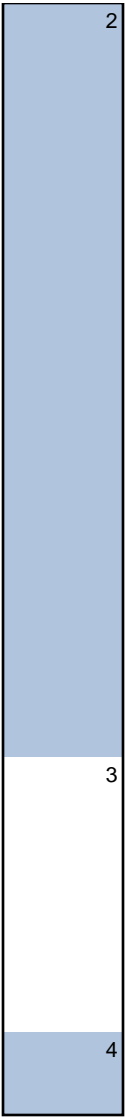# Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

Cumulative Logical Writes	Cumulative CLR Time (ms)
Total	Total
0	0.000

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

2

3

4

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```
SELECT
SCHEMA_NAME(sp.schema_id) AS [Schema],
sp.name AS [Name],
sp.object_id AS [ID],
CAST(
 case
   when sp.is_ms_shipped = 1 then 1
   when (
      select
         major_id
      from
         sys.extended_properties
      where
         major_id = sp.object_id and
         minor_id = 0 and
         class = 1 and
         name = N'microsoft_database_tools_support')
      is not null then 1
   else 0
end
         AS bit) AS [IsSystemObject],
CASE WHEN sp.type = N'P' THEN 1 WHEN sp.type = N'PC' THEN 2 ELSE 1 END AS [ImplementationType],
CAST(CASE WHEN ISNULL(smsp.definition, ssmsp.definition) IS NULL THEN 1 ELSE 0 END AS bit) AS [IsEncrypted]
FROM
sys.all_objects AS sp
LEFT OUTER JOIN sys.sql_modules AS smsp ON smsp.object_id = sp.object_id
LEFT OUTER JOIN sys.system_sql_modules AS ssmsp ON ssmsp.object_id = sp.object_id
WHERE
(sp.type = @_msparam_0 OR sp.type = @_msparam_1 OR sp.type=@_msparam_2)
ORDER BY
[Schema] A
```

```
UPDATE [Event] WITH (TABLOCKX)
                     SET [BatchID] = @BatchID,
                         [ProcessStart] = GETUTCDATE(),
                         [ProcessHeartbeat] = GETUTCDATE()
                     FROM (
                         SELECT TOP 4 [EventID] FROM [Event] WITH (TABLOCKX) WHERE [ProcessStart] is
NULL ORDER BY [TimeEntered]
                         ) AS t1
                     WHERE [Event].[EventID] = t1.[EventID]
```

```
select top 1000 column fulltextkey as k, column fulltextall, dst.docid , dst.ts  from [Production].[ProductReview] t WITH
(READPAST), [AdventureWorks2012].[sys].[fulltext_index_docidstatus_610101214] dst WITH (READPAST) where column
fulltextkey = dst.docid and dst.status = 0 and dst.ts > @p1 and dst.ts <= @p2 order by dst.ts OPTION(MAXDOP 1)
```

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

3	2	1	1	12/19/2017 9:06:25 AM	342.684
537	1	1	1	12/19/2017 8:41:44 AM	268.299
1	1	1	1	12/19/2017 8:41:43 AM	255.787

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

143.292	114.228	83.011	524.549	744
1.191	0.499	0.000	268.299	0
255.787	255.787	255.787	255.787	0

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

252,792	0	0.000
1,092	0	0.000
0	0	0.000

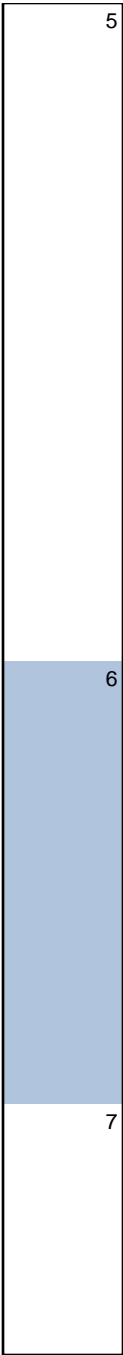# Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

5

6

7

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```
SELECT
SCHEMA_NAME(udf.schema_id) AS [Schema],
udf.name AS [Name],
udf.object_id AS [ID],
(case when 'FN' = udf.type then 1 when 'FS' = udf.type then 1 when 'IF' = udf.type then 3 when 'TF' = udf.type then 2 when
'FT' = udf.type then 2 else 0 end) AS [FunctionType],
CASE WHEN udf.type IN ('FN','IF','TF') THEN 1 WHEN udf.type IN ('FS','FT') THEN 2 ELSE 1 END AS
[ImplementationType],
CAST(
 case
   when udf.is_ms_shipped = 1 then 1
   when (
     select
       major_id
     from
       sys.extended_properties
     where
       major_id = udf.object_id and
       minor_id = 0 and
       class = 1 and
       name = N'microsoft_database_tools_support')
     is not null then 1
   else 0
 end
       AS bit) AS [IsSystemObject],
CAST(CASE WHEN ISNULL(smudf.definition, ssmudf.definition) IS NULL THEN 1 ELSE 0 END AS bit) AS [IsEncrypted],
CAST(ISNULL(OBJECTPROPERTYEX(udf.object_id, N'IsSchemaBound'),0) AS bit)
```

```
SELECT
clmns.name AS [Name],
clmns.column_id AS [ID],
clmns.is_nullable AS [Nullable],
clmns.is_computed AS [Computed],
CAST(ISNULL(cik.index_column_id, 0) AS bit) AS [InPrimaryKey],
clmns.is_ansi_padded AS [AnsiPaddingStatus],
CAST(clmns.is_rowguidcol AS bit) AS [RowGuidCol],
CAST(ISNULL(COLUMNPROPERTY(clmns.object_id, clmns.name, N'IsDeterministic'),0) AS bit) AS [IsDeterministic],
CAST(ISNULL(COLUMNPROPERTY(clmns.object_id, clmns.name, N'IsPrecise'),0) AS bit) AS [IsPrecise],
CAST(ISNULL(cc.is_persisted, 0) AS bit) AS [IsPersisted],
ISNULL(clmns.collation_name, N'') AS [Collation],
CAST(ISNULL((select TOP 1 1 from sys.foreign_key_columns AS colfk where colfk.parent_column_id = clmns.column_id
and colfk.parent_object_id = clmns.object_id), 0) AS bit) AS [IsForeignKey],
clmns.is_identity AS [Identity],
CAST(ISNULL(ic.seed_value,0) AS bigint) AS [IdentitySeed],
CAST(ISNULL(ic.increment_value,0) AS bigint) AS [IdentityIncrement],
(case when clmns.default_object_id = 0 then N'' when d.pa
```

```
SELECT
SCHEMA_NAME(v.schema_id) AS [Schema],
v.name AS [Name],
v.object_id AS [ID]
FROM
sys.all_views AS v
WHERE
(v.type = @_msparam_0)
ORDER BY
[Schema] ASC,[Name] ASC
```
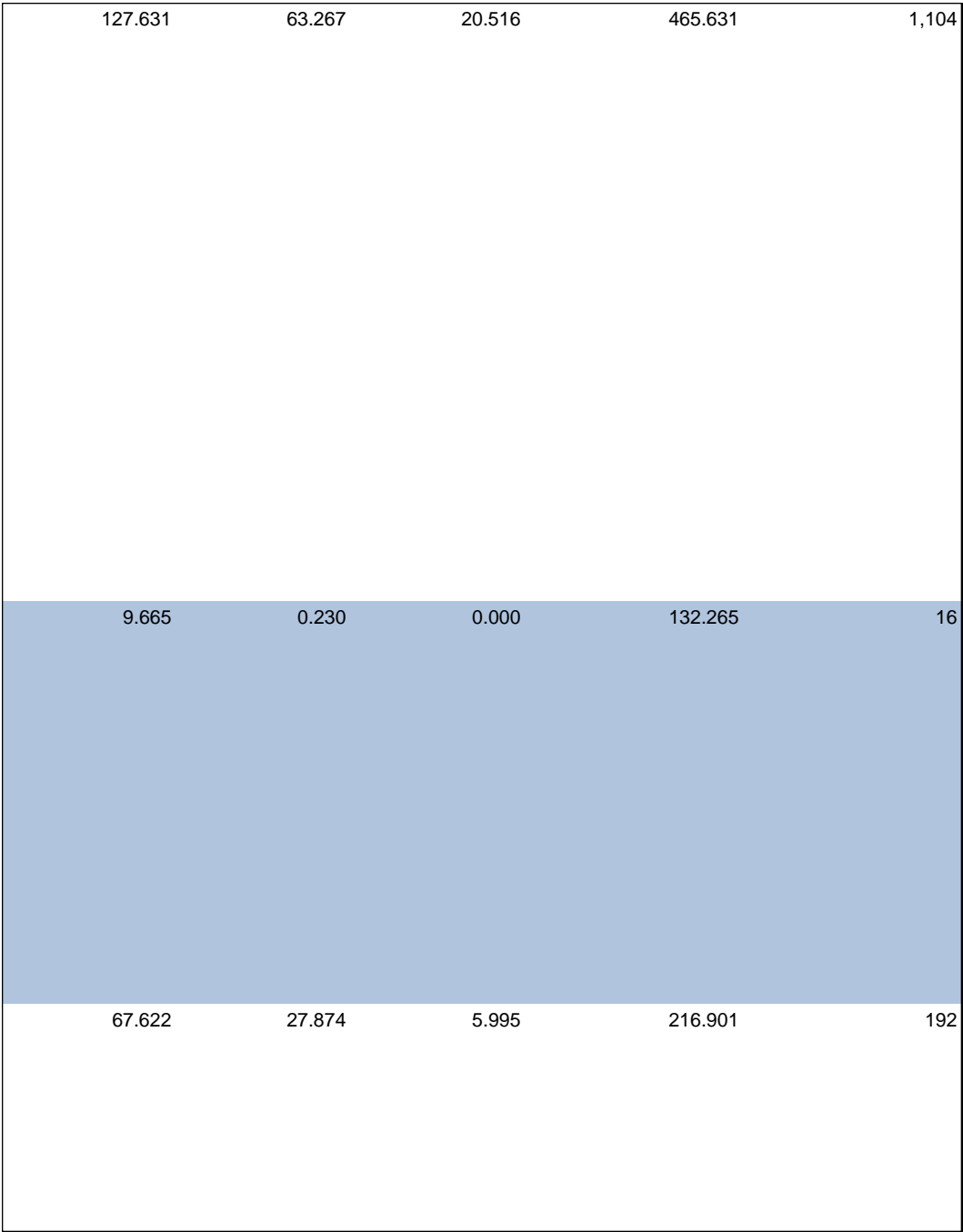
Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

3	2	2	1	12/19/2017 9:06:24 AM	189.802
453	1	1	1	12/19/2017 9:48:57 AM	104.253
3	2	1	1	12/19/2017 9:06:24 AM	83.622

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

127.631	63.267	20.516	465.631	1,104
9.665	0.230	0.000	132.265	16
67.622	27.874	5.995	216.901	192

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

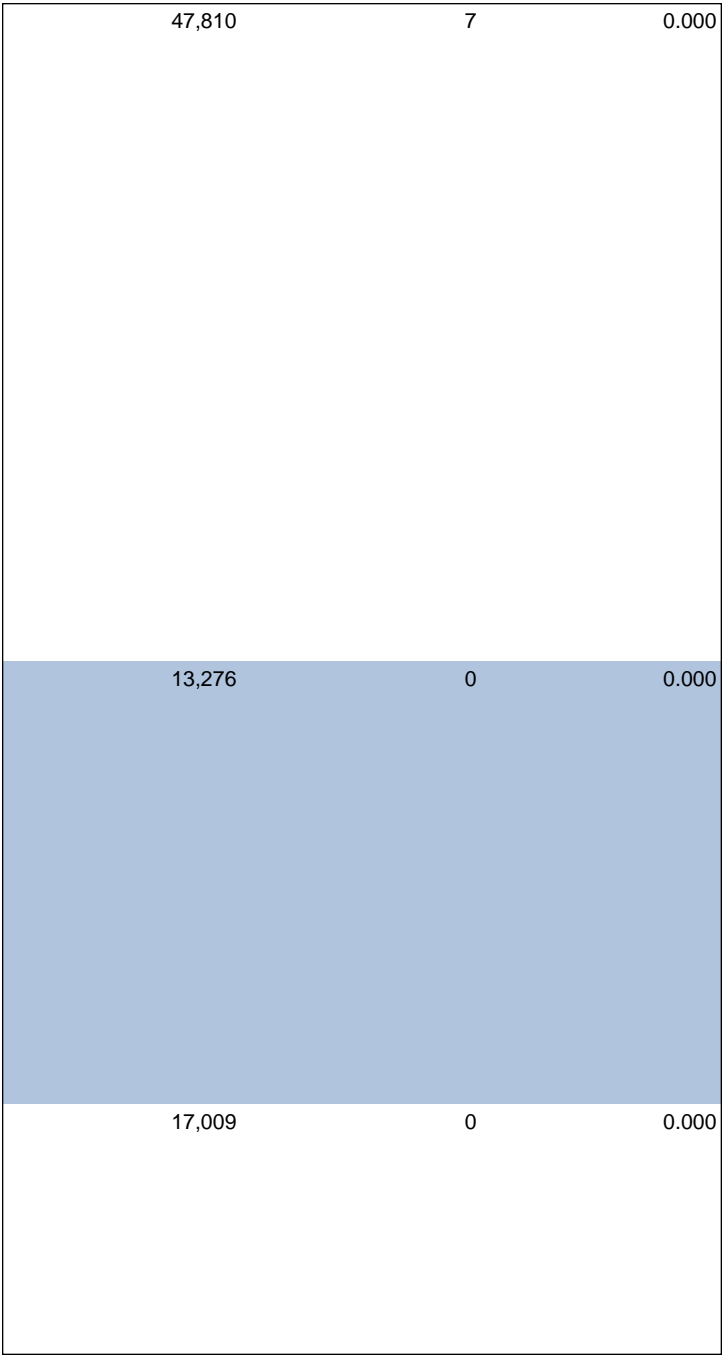|		
47,810	7	0.000
13,276	0	0.000
17,009	0	0.000

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

8

9

10

11

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```
select top 4
                        -- Notification data
                        N.[NotificationID].
                        N.[SubscriptionID].
                        N.[ActivationID].
                        N.[ReportID].
                        N.[SnapShotDate].
                        N.[DeliveryExtension].
                        N.[ExtensionSettings].
                        N.[Locale].
                        N.[Parameters].
                        N.[SubscriptionLastRunTime].
                        N.[ProcessStart].
                        N.[NotificationEntered].
                        N.[Attempt].
                        N.[IsDataDriven].
                        SUSER_SNAME(Owner.[Sid]).
                        Owne
```

```
insert #Platform exec master.dbo.xp_msver 'Platform'
```

```
SELECT
udf.name AS [Name].
udf.object_id AS [ID].
udf.create_date AS [CreateDate].
udf.modify_date AS [DateLastModified].
ISNULL(sudf.name, N'') AS [Owner].
CAST(case when udf.principal_id is null then 1 else 0 end AS bit) AS [IsSchemaOwned].
SCHEMA_NAME(udf.schema_id) AS [Schema].
CAST(
 case
  when udf.is_ms_shipped = 1 then 1
  when (
    select
       major_id
    from
       sys.extended_properties
    where
       major_id = udf.object_id and
       minor_id = 0 and
       class = 1 and
       name = N'microsoft_database_tools_support')
    is not null then 1
  else 0
end
        AS bit) AS [IsSystemObject].
usrt.name AS [DataType].
s1ret_param.name AS [DataTypeSchema].
ISNULL(baset.name, N'') AS [SystemType].
CAST(CASE WHEN baset.name IN (N'nchar', N'nvarchar') AND ret_param.max_length <> -1 THEN
ret_param.max_length/2 ELSE ret_param.max_length END AS int) AS [Length].
CAST(ret_param.pre
```

```
SELECT HAS_DBACCESS(name) FROM sys.databases WHERE (name = @P1)
```

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

537	1	1	1	12/19/2017 8:41:44 AM	58.952
1	1	1	4	12/19/2017 8:41:39 AM	58.476
7	2	2	1	12/19/2017 9:48:57 AM	54.941
2	1	1	1	12/19/2017 8:41:35 AM	53.518

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

1.362	0.109	0.000	58.952	0
58.476	58.476	58.476	64.356	8
10.016	7.848	1.000	54.941	0
53.518	26.759	0.000	53.518	0

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

4,380	0	0.000
44	2	0.000
40,441	0	0.000
14	0	0.000

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

12

13
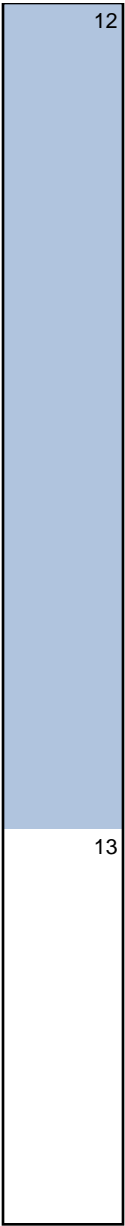
Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```
SELECT sjv.job_id,
       sjv.name,
       sjv.enabled,
       sjv.start_step_id,
       owner = dbo.SQLAGENT_SUSER_SNAME(sjv.owner_sid),
       sjv.notify_level_eventlog,
       sjv.notify_level_email,
       sjv.notify_level_netsend,
       sjv.notify_level_page,
       sjv.notify_email_operator_id,
       sjv.notify_netsend_operator_id,
       sjv.notify_page_operator_id,
       sjv.delete_level,
       has_step = (SELECT COUNT(*)
                   FROM msdb.dbo.sysjobsteps sjst
                   WHERE (sjst.job_id = sjv.job_id)),
       sjv.version_number,
       last_run_date = ISNULL(sjs.last_run_date, 0),
       last_run_time = ISNULL(sjs.last_run_time, 0),
       sjv.originating_server,
       sjv.description,
       agent_account = CASE sjv.owner_sid
            WHEN 0xFFFFFFFF THEN 1
            ELSE            0
       END
 FROM msdb.dbo.sysjobservers sjs,
      msdb.dbo.sysjobs_view sjv
 WHERE ((@job_id IS NULL) OR (@job_id = sjv.job_id))
   AND (sjv.job_id = sjs.job_id)
   AND (sjs.server_id = @server_id)
 ORDER BY sjv.job_id
 OPTION (FORCE ORDER)


SELECT
ISNULL((case dmi.mirroring_redo_queue_type when N'UNLIMITED' then 0 else dmi.mirroring_redo_queue end),0) AS
[MirroringRedoQueueMaxSize],
ISNULL(dmi.mirroring_connection_timeout,0) AS [MirroringTimeout],
ISNULL(dmi.mirroring_partner_name,'') AS [MirroringPartner],
ISNULL(dmi.mirroring_partner_instance,'') AS [MirroringPartnerInstance],
ISNULL(dmi.mirroring_role,0) AS [MirroringRole],
ISNULL(dmi.mirroring_safety_level + 1, 0) AS [MirroringSafetyLevel],
ISNULL(dmi.mirroring_state + 1, 0) AS [MirroringStatus],
ISNULL(dmi.mirroring_witness_name,'') AS [MirroringWitness],
ISNULL(dmi.mirroring_witness_state + 1, 0) AS [MirroringWitnessStatus],
CAST(case when dmi.mirroring_partner_name is null then 0 else 1 end AS bit) AS [IsMirroringEnabled],
ISNULL(dmi.mirroring_guid,'00000000-0000-0000-0000-000000000000') AS [MirroringID],
ISNULL(dmi.mirroring_role_sequence,0) AS [MirroringRoleSequence],
ISNULL(dmi.mirroring_safety_sequence,0) AS [MirroringSafetySequence],
ISNULL(dmi.mirroring_f
```
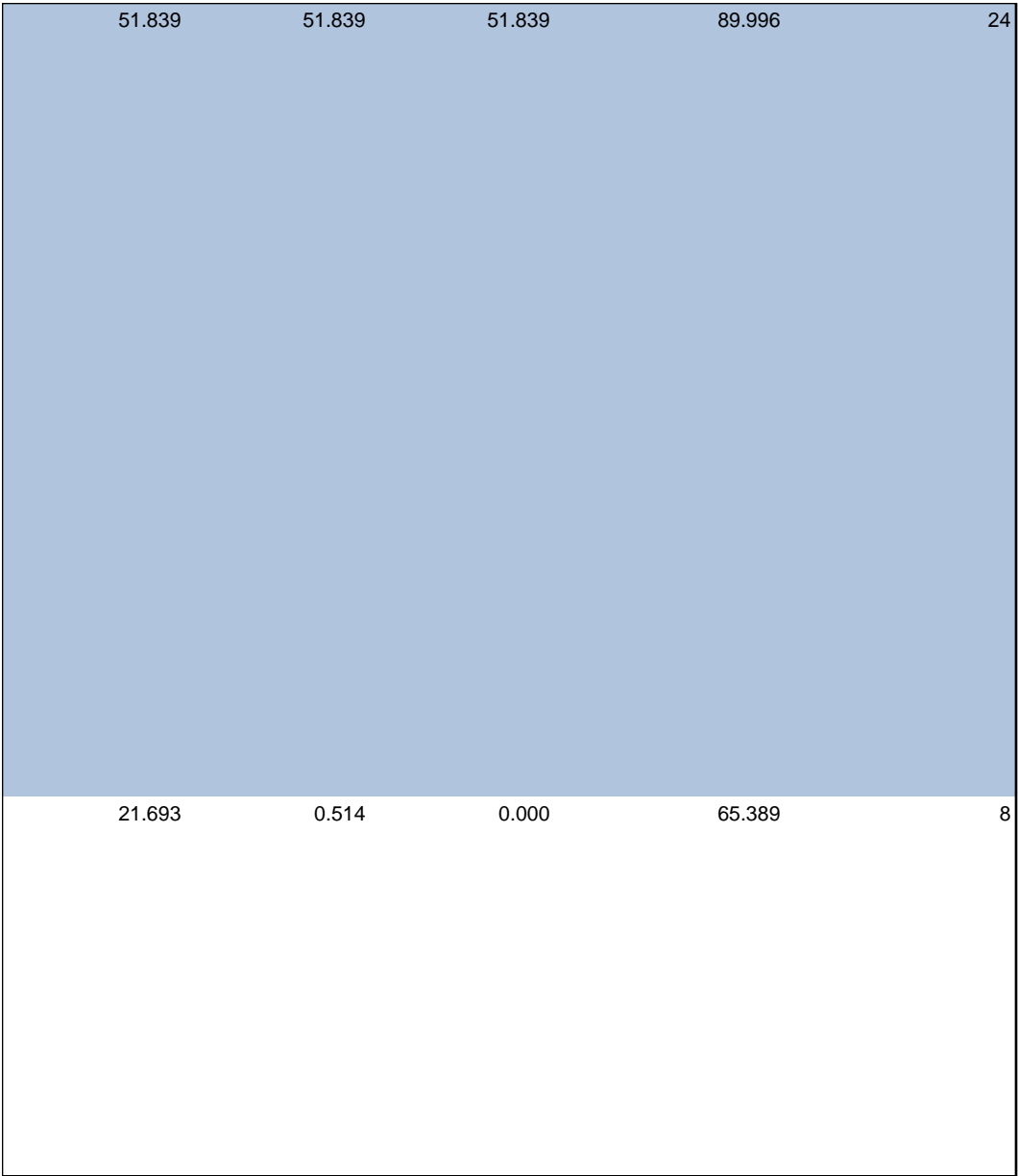
Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

1	1	1	1	12/19/2017 8:41:40 AM	51.839
93	1	1	1	12/19/2017 8:58:44 AM	47.879

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

51.839	51.839	51.839	89.996	24
21.693	0.514	0.000	65.389	8

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

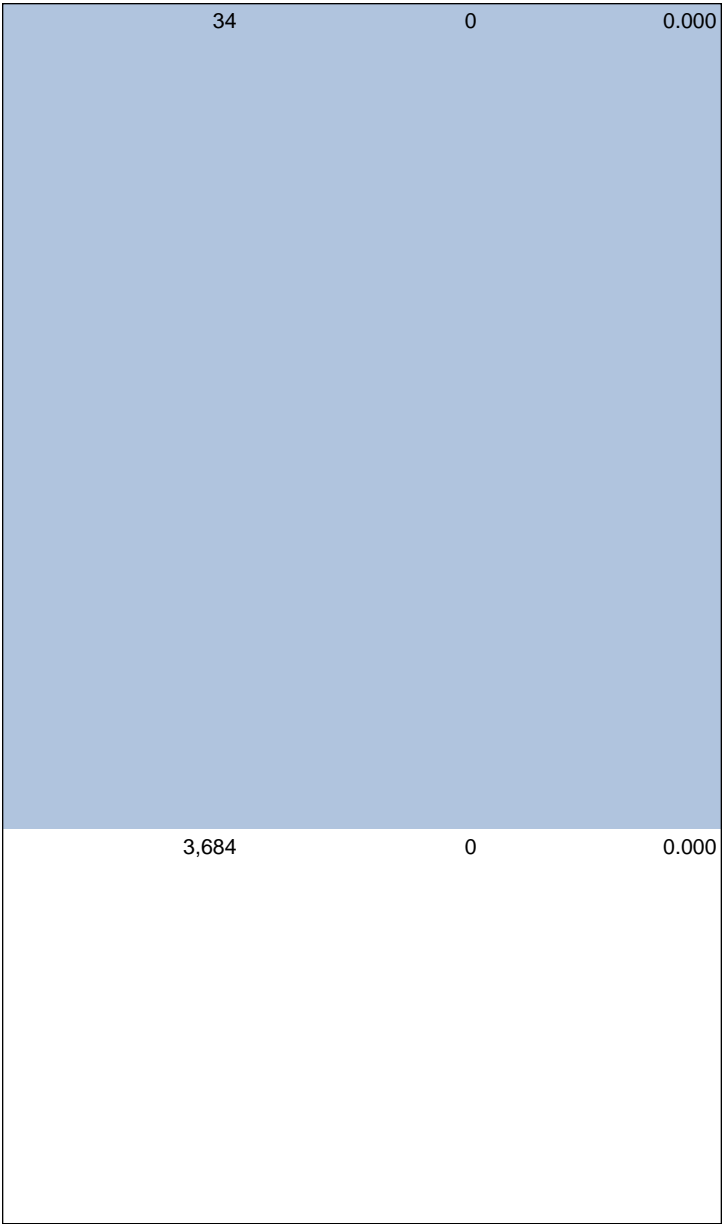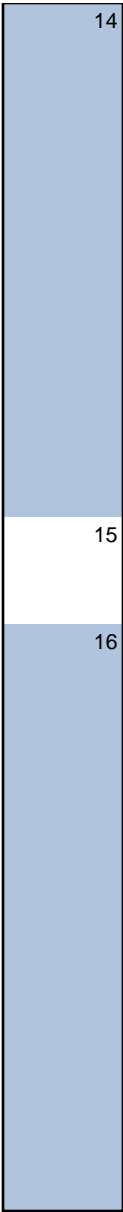| 34	0	0.000
3,684	0	0.000

Expensive Queries - CPU (Cumulative Data)

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Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```sql
SELECT
u.name AS [Name],
u.principal_id AS [ID],
ISNULL(ak.name,N'') AS [AsymmetricKey],
ISNULL(cert.name,N'') AS [Certificate],
ISNULL(suser_sname(u.sid),N'') AS [Login],

      CASE
        WHEN N'C' = u.type THEN 1
        WHEN N'K' = u.type THEN 2
        WHEN N'S' = u.type AND SUSER_SNAME(u.sid) is null AND u.authentication_type != 2 THEN 3
        ELSE 0 END
        AS [UserType]
FROM
sys.database_principals AS u
LEFT OUTER JOIN sys.asymmetric_keys AS ak ON ak.sid = u.sid
LEFT OUTER JOIN sys.certificates AS cert ON cert.sid = u.sid
WHERE
(u.type in ('U', 'S', 'G', 'C', 'K'))
ORDER BY
[Name] ASC
```

```sql
SELECT [Value]
FROM [ConfigurationInfo]
WHERE [Name] = @Name
```

```sql
select db_name(d.database_id) as database_name,
 quotename(object_schema_name(d.object_id, d.database_id)) + N'.' + quotename(object_name(d.object_id,
d.database_id)) as object_name,
 d.database_id,
 d.object_id,
 d.page_io_latch_wait_count,
 d.page_io_latch_wait_in_ms,
 d.range_scans,
 d.index_lookups,
 case when mid.database_id is null then 'N' else 'Y' end as missing_index_identified
 from (select
   database_id,
   object_id,
   row_number() over (partition by database_id order by sum(page_io_latch_wait_in_ms) desc) as row_number,
   sum(page_io_latch_wait_count) as page_io_latch_wait_count,
   sum(page_io_latch_wait_in_ms) as page_io_latch_wait_in_ms,
   sum(range_scan_count) as range_scans,
   sum(singleton_lookup_count) as index_lookups
   from sys.dm_db_index_operational_stats(NULL, NULL, NULL, NULL)
   where page_io_latch_wait_count > 0
   group by database_id, object_id ) as d
 left join (select distinct database_id, object_id from sys.dm_db_missing_index_details) as mid
   on mid.database_id = d.database_id and mid.object_id = d.object_id
 where d.row_number <= 20
```

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

3	2	1	1	12/19/2017 9:06:24 AM	45.450
2	1	1	1	12/19/2017 8:41:40 AM	43.012
1	1	1	1	12/19/2017 10:10:35 AM	32.360

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

41.688	15.150	1.790	45.450	0
43.012	21.506	0.000	48.496	8
32.360	32.360	32.360	203.025	247

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

579	0	0.000
4	0	0.000
3,642	0	0.000

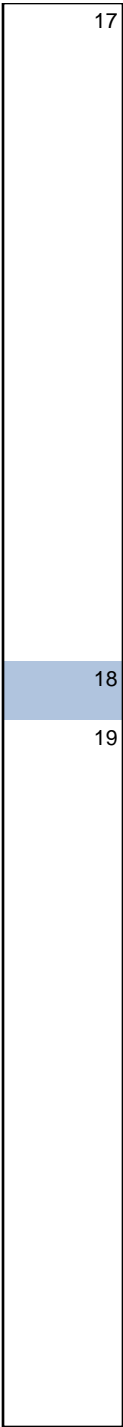# Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

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Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```
SELECT
param.is_readonly AS [IsReadOnly],
param.name AS [Name],
param.parameter_id AS [ID],
param.default_value AS [DefaultValue],
param.has_default_value AS [HasDefaultValue],
usrt.name AS [DataType],
s1param.name AS [DataTypeSchema],
ISNULL(baset.name, N'') AS [SystemType],
CAST(CASE WHEN baset.name IN (N'nchar', N'nvarchar') AND param.max_length <> -1 THEN param.max_length/2
ELSE param.max_length END AS int) AS [Length],
CAST(param.precision AS int) AS [NumericPrecision],
CAST(param.scale AS int) AS [NumericScale],
ISNULL(xscparam.name, N'') AS [XmlSchemaNamespace],
ISNULL(s2param.name, N'') AS [XmlSchemaNamespaceSchema],
ISNULL( (case param.is_xml_document when 1 then 2 else 1 end), 0) AS [XmlDocumentConstraint],
CASE WHEN usrt.is_table_type = 1 THEN N'structured' ELSE N'' END AS [UserType],
udf.object_id AS [IDText],
db_name() AS [DatabaseName],
param.name AS [ParamName],
CAST(
 case
   when udf.is_ms_shipped = 1 then 1
   when (
       select
           major_id

INSERT #t EXEC xp_fileexist @DTExec

SELECT
SCHEMA_NAME(obj.schema_id) AS [Schema],
obj.name AS [Name],
obj.object_id AS [ID],
usrt.name AS [DataType],
ISNULL(baset.name, N'') AS [SystemType],
CAST(CASE WHEN baset.name IN (N'nchar', N'nvarchar') AND ret_param.max_length <> -1 THEN
ret_param.max_length/2 ELSE ret_param.max_length END AS int) AS [Length],
CAST(ret_param.precision AS int) AS [NumericPrecision],
CAST(ret_param.scale AS int) AS [NumericScale],
ISNULL(xscret_param.name, N'') AS [XmlSchemaNamespace],
ISNULL(s2ret_param.name, N'') AS [XmlSchemaNamespaceSchema],
ISNULL( (case ret_param.is_xml_document when 1 then 2 else 1 end), 0) AS [XmlDocumentConstraint],
s1ret_param.name AS [DataTypeSchema]
FROM
sys.objects AS obj
LEFT OUTER JOIN sys.all_parameters AS ret_param ON ret_param.object_id = obj.object_id and ret_param.is_output = 1
LEFT OUTER JOIN sys.types AS usrt ON usrt.user_type_id = ret_param.user_type_id
LEFT OUTER JOIN sys.types AS baset ON (baset.user_type_id = ret_param.system_type_id and baset.user_type_id =
baset.system_type_id) or ((baset.system_type_id = ret_param.system_type_id) and (baset.user_type_id =
ret_param.user_type_id) and (baset.is_user_defined = 0) and (baset.is_assembly_type = 1))
LEFT OUTER JOIN sys.xml_schema_collections AS xscret_param ON xscret_param.xml_collection_id =
ret_param.xml_collection_id
LEFT OUTER JOIN sys.schemas AS s2ret_param ON s2ret_param.schema_id = xscret_param.schema_id
LEFT OUTER JOIN sys.schemas AS s1ret_param ON s1ret_param.schema_id = usrt.schema_id
WHERE
(obj.type=N'AF')
ORDER BY
[Schema] ASC,[Name] ASC
```

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

13	2	1	1	12/19/2017 9:48:57 AM	29.262
1	1	1	2	12/19/2017 8:41:39 AM	29.328
3	2	2	1	12/19/2017 9:06:24 AM	23.525

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

3.495	2.250	0.000	29.262	19
29.328	29.328	29.328	43.951	16
9.464	7.841	6.991	42.424	8

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

542	0	0.000
47	5	0.000
1,420	0	0.000

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

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Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

```
select top 4
                          E.[EventID],
                          E.[EventType],
                          E.[EventData]
                     from
                          [Event] E WITH (TABLOCKX)
                     where
                          [BatchID] = @BatchID
                          ORDER BY [TimeEntered]
```

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

537	1	1	1	12/19/2017 8:41:44 AM	23.736

Expensive Queries - CPU (Cumulative Data)

Report Local Time: 12/19/2017 10:11:07 AM

1.025	0.044	0.000	23.736	0

Expensive Queries - CPU (Cumulative Data)

1,074	0	0.000