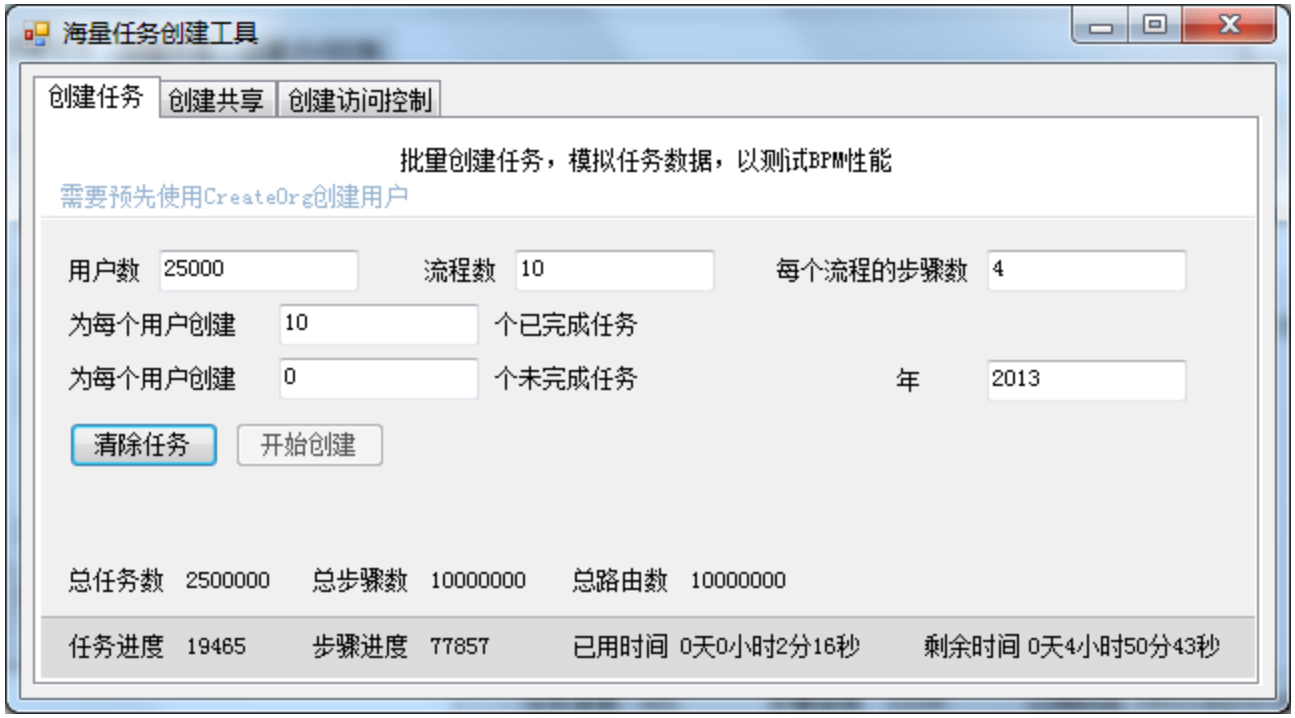
FlowPortal因为专业、所以快

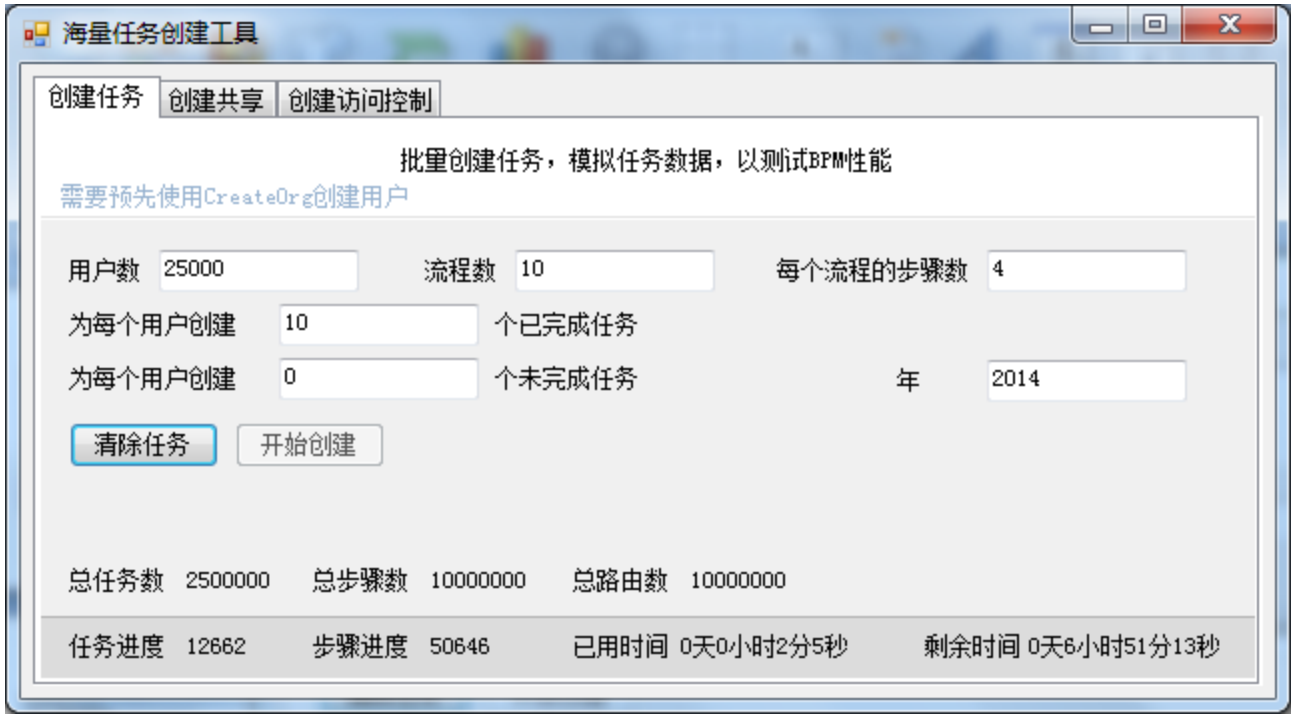
专业高性能BPM，方能保障应用持续深入

创建组织结构，1000+OU，5W+员工

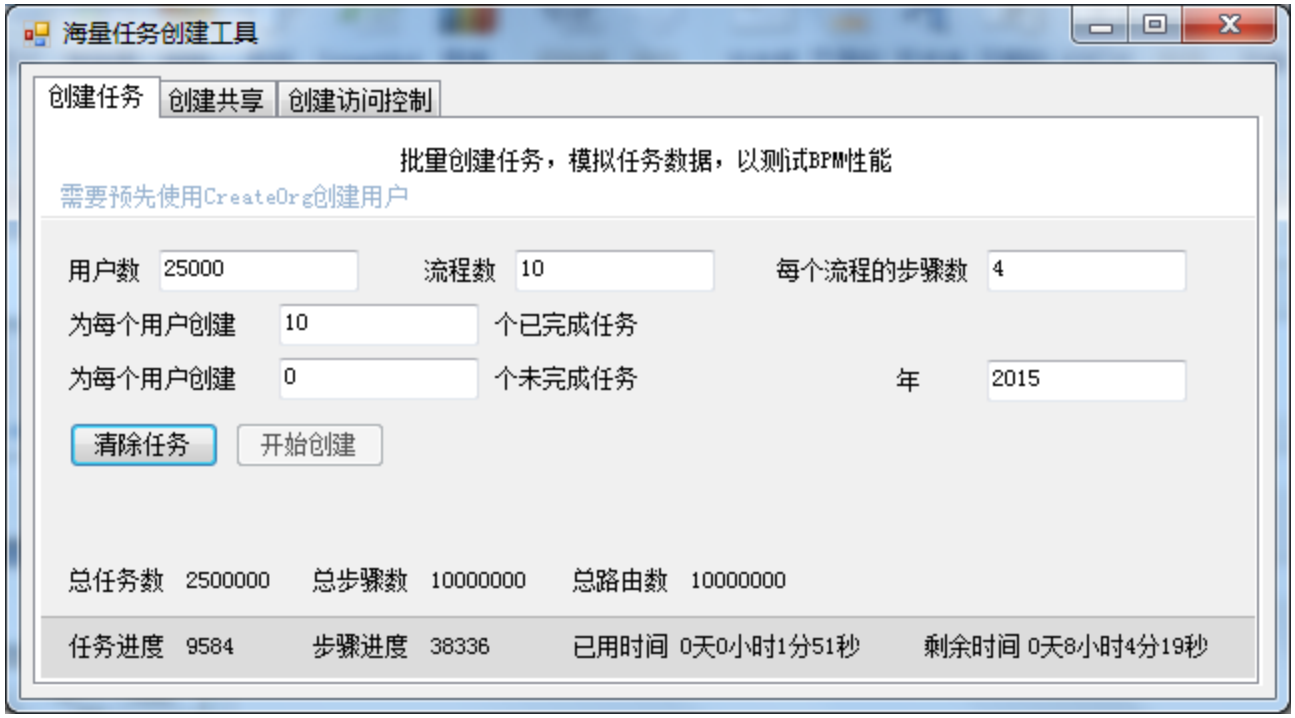
创建2013年数据，250W流程实例，1000W次审批



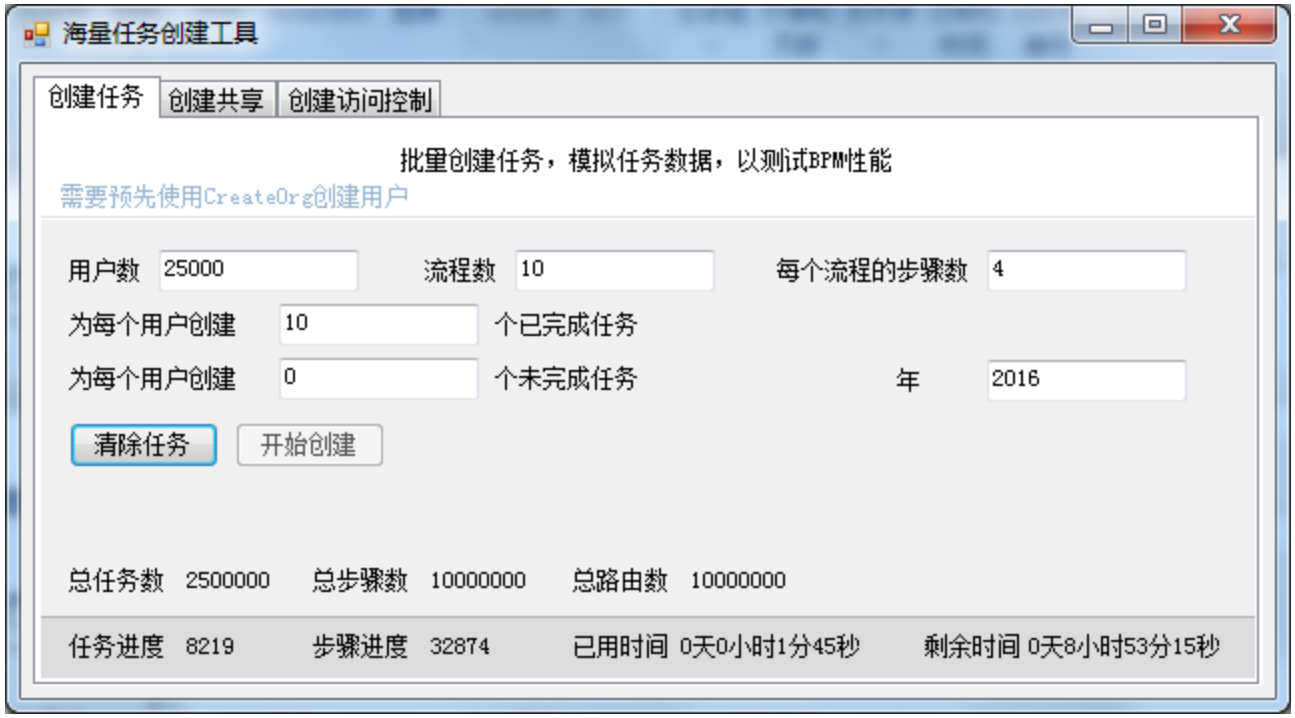
创建2014年数据，250W流程实例，1000W次审批



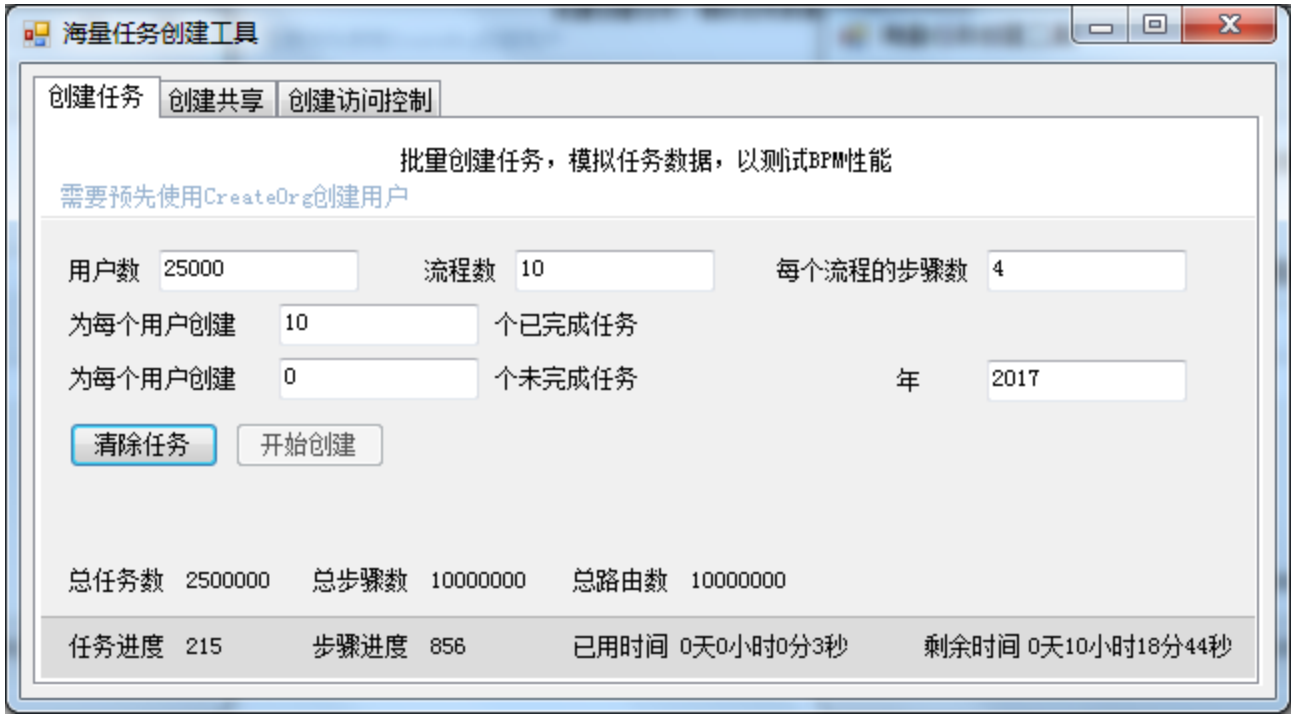
创建2015年数据，250W流程实例，1000W次审批



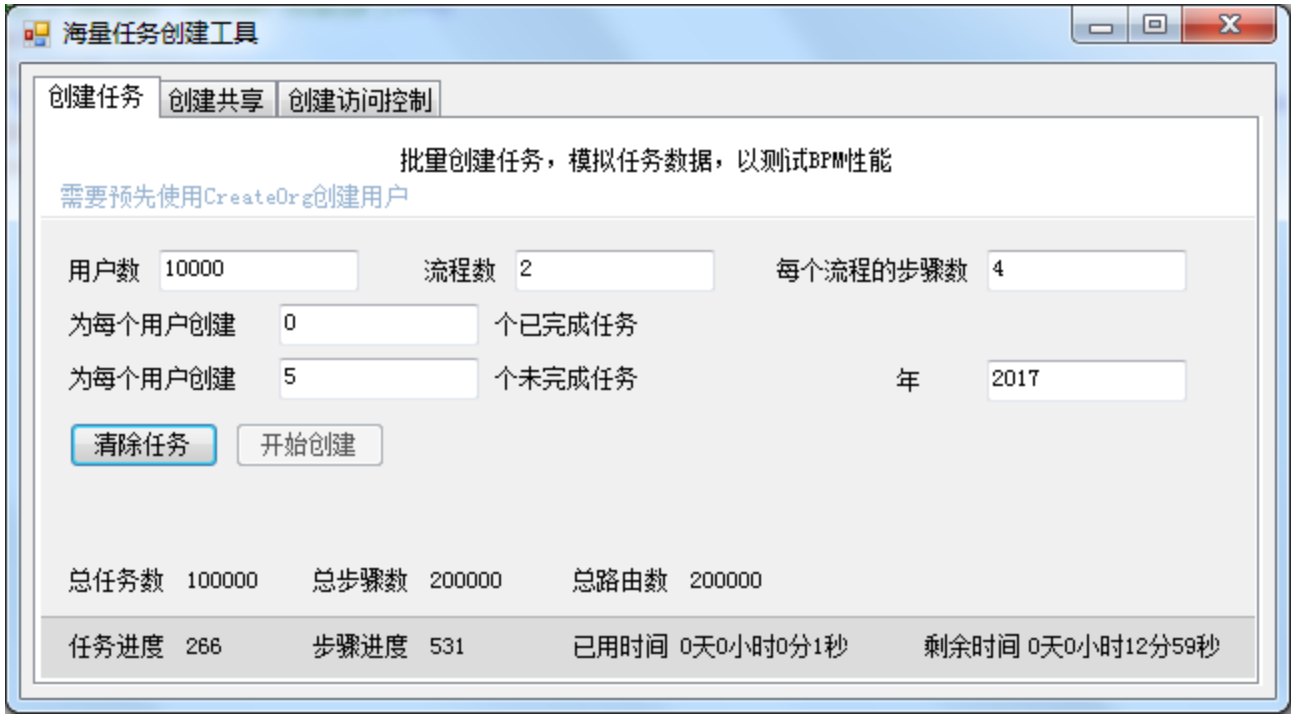
创建2016年数据，250W流程实例，1000W次审批



创建2017年数据，250W流程实例，1000W次审批

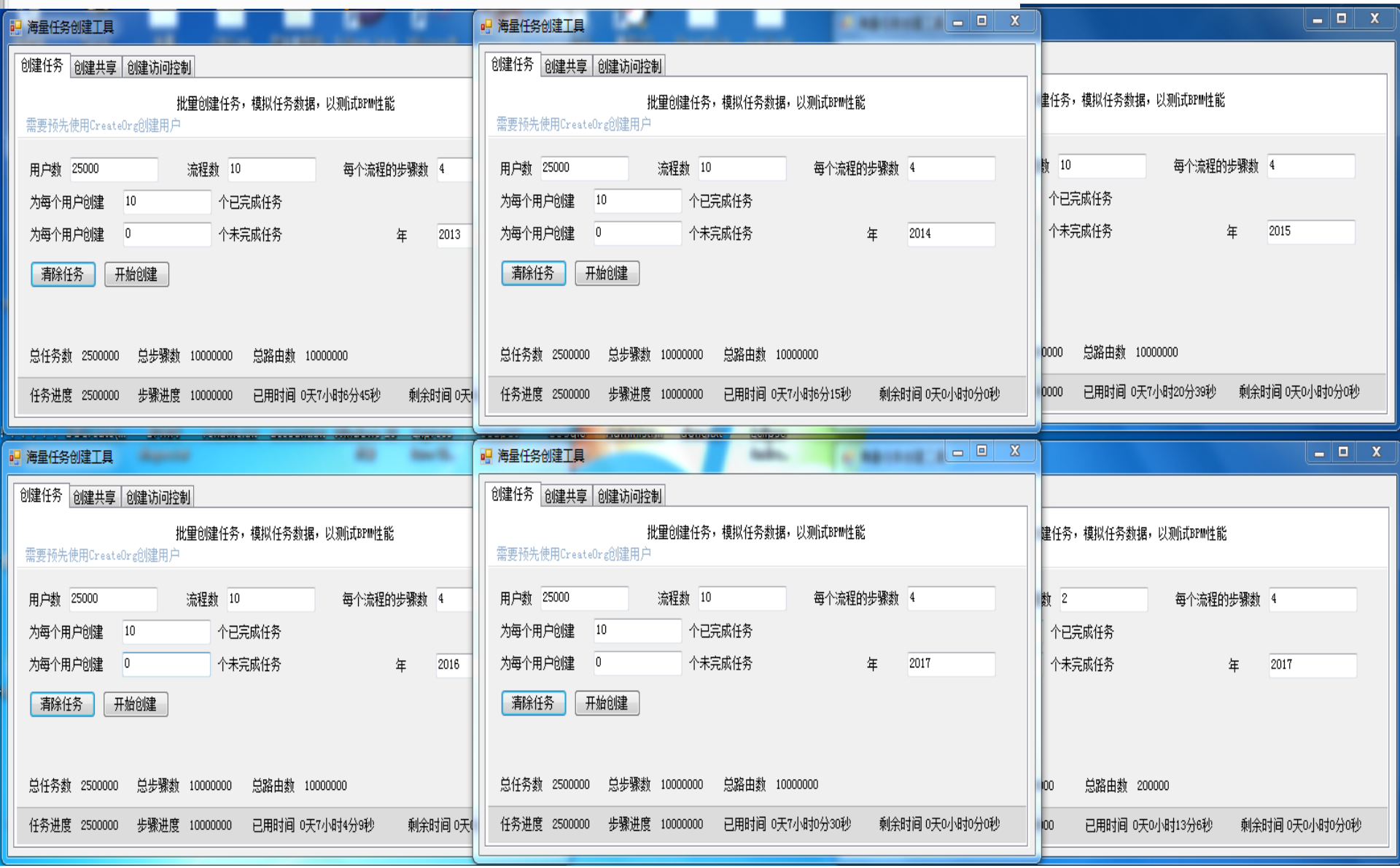


创建在办任务，10W待办



历时7小时，共创建5年数据

BPMDBHuge250x1000.mdf	2017-02-19 1:06	SQL Server Data...	51,646,464 KB
BPMDBHuge250x1000_log.ldf	2017-02-19 0:36	SQL Server Data...	3,456 KB



5年数据，每年250W任务，1000W次审批

(local)\SQL2005.BP...0 - SQLQuery1.sql* 摘要

```
select ExtYear '年度',count(*) '任务实例数' from BPMInstTasks group by ExtYear
select ExtYear '年度',count(*) '审批次数' from BPMInstProcSteps group by ExtYear
select count(*) '在办任务数' from YZV_TaskList
```

结果 消息

	年度	任务实例数
1	2013	2500000
2	2014	2500000
3	2015	2500000
4	2016	2500000
5	2017	2617260

250W流程实例

	年度	审批次数
1	2013	10000000
2	2014	10000000
3	2015	10000000
4	2016	10000000
5	2017	10322606

1000W次审批

	在办任务数
1	114112

10W+在办流程

```
select ExtYear '年度',count(*) '任务实例数' from BPMInstTasks group by ExtYear
select ExtYear '年度',count(*) '审批次数' from BPMInstProcSteps group by ExtYear
select count(*) '在办任务数' from YZV_TaskList
```

普通员工操作
User7999

前台反应

打开待办	我的申请查询	历史任务查询
<0.5秒	<0.5秒	<0.5秒

SQL Profile

打开待办

Read(I/O)	Write	CPU	Duration(微秒)
9	0	0	185<0.0002秒

我的申请查询

Read(I/O)	Write	CPU	Duration(微秒)
127	0	0	1942<0.002秒

历史任务查询

Read(I/O)	Write	CPU	Duration(微秒)
146	0	0	1391<0.002秒

超级管理员
sa

前台反应

打开待办	我的申请查询	历史任务查询
N/A	N/A	<3秒(首次打开11秒)

SQL Profile

打开待办

Read(I/O)	Write	CPU	Duration(微秒)
N/A	N/A	N/A	N/A

我的申请查询

Read(I/O)	Write	CPU	Duration(微秒)
N/A	N/A	N/A	N/A

历史任务查询

Read(I/O)	Write	CPU	Duration(微秒)
386770	0	1825	1872356<2秒

历史任务模糊查询

Read(I/O)	Write	CPU	Duration(微秒)
82662	0	35767	5451935<6秒

详细信息截图

User7999

http请求及响应时间

打开待办（请求次数:1）

Name	Meth...	Status	Type	Initiator	Size	Time
TaskList.ashx?_dc=148764030...	GET	200	xhr	ext-all.js?...	10.8 KB	25 ms

我的申请查询（请求次数:1）

Name	Meth...	Status	Type	Initiator	Size	Time
TaskList.ashx?_dc=148746734...	GET	200	xhr	/2015/ext...	4.5 KB	13 ms

历史任务查询（请求次数:1）

Name	Meth...	Status	Type	Initiator	Size	Time
TaskList.ashx?_dc=148746738...	GET	200	xhr	/2015/ext...	8.8 KB	13 ms

SQL profile

打开待办（执行SQL数:1）

TextData	ApplicationName	NTUserName	LoginName	CPU	Reads	Writes	Duration
exec sp_executesql N' --DECLARE @...	.Net SqlClie...		sa	0	9	0	185

我的申请查询（执行SQL数:1）

TextData	ApplicationName	NTUserName	LoginName	CPU	Reads	Writes	Duration
exec sp_executesql N'WITH A AS(SELE...	.Net SqlClie...		sa	0	127	0	1942

历史任务查询（执行SQL数:1）

TextData	ApplicationName	NTUserName	LoginName	CPU	Reads	Writes	Duration
exec sp_executesql N'WITH A AS(SELE...	.Net SqlClie...		sa	0	146	0	1391

待办 SQL Profile

SQL Server Profiler - [无标题 - 1 ((local)\SQL2005)]

☑ 在“持续时间”列中以微秒为单位显示值(仅限 SQL Server 2005)(C)

文件(F) 编辑(E) 视图(V) 重播(R) 工具(T) 窗口(W) 帮助(H)

EventClass	TextData	ApplicationName	NTUserName	LoginName	CPU	Reads	Writes	Duration	ClientProcessID	SPID
RPC:Completed	exec sp_executesql N' --DECLARE @...	.Net SqlClie...		sa	0	9	0	185	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	200	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	151	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	63	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	64	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	60	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	78	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	76	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	73	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	118	6232	57
RPC:Completed	exec sp_executesql N'SELECT * FROM...	.Net SqlClie...		sa	0	9	0	80	6232	57
RPC:Completed	exec sp_reset_connection	.Net SqlClie...		sa	0	0	0	16	6232	57
SQL:BatchStarting	SELECT TableName,Version FROM BPMS...	.Net SqlClie...		sa					6232	57

```
exec sp_executesql N'
--DECLARE @StartRowIndex int;
--DECLARE @EndRowIndex int;
--DECLARE @ExtRecipient nvarchar(50);
--SELECT @StartRowIndex = 0;
--SELECT @EndRowIndex = 20;

WITH A AS(
        SELECT
TaskID,StepID,ProcessName,OwnerPositionID,OwnerAccount,AgentAccount,CreateAt,Description,NodeName,ReceiveAt,Share,State,SerialNum,TimeoutFirstNotifyDate,TimeoutDeadline,
        cast(DATEDIFF(mi,ReceiveAt,GETDATE()) as bigint)*1.0/(case when DATEDIFF(mi,ReceiveAt,TimeoutDeadline) < 1 then 1 else DATEDIFF(mi,ReceiveAt,TimeoutDeadline) enc
        FROM YZV_TaskList  WHERE ExtRecipient=@ExtRecipient
),
X AS(
        SELECT A.*,ROW_NUMBER() OVER(ORDER BY StepID DESC) AS RowNum FROM A
),
Y AS(
        SELECT count(*) AS TotalRows FROM X
),
Z AS(
```

就绪。 行数: 24

连接数: 1

1次待办查询和10次任务查询

我的申请 SQL Profile

SQL Server Profiler - [无标题 - 1 ((local)\SQL2005)]

☑ 在“持续时间”列中以微秒为单位显示值(仅限 SQL Server 2005)(C)

文件(F) 编辑(E) 视图(V) 重播(R) 工具(T) 窗口(W) 帮助(H)

EventClass	TextData	ApplicationName	NTUserName	LoginName	CPU	Reads	Writes	Duration	ClientProcessID	SPID
RPC:Completed	exec sp_executesql N'WITH A AS(SELE...	.Net SqlClie...		sa	0	127	0	1942	6232	57
Trace Pause										
Trace Start										
ExistingConnection	-- network protocol: LPC set quote...	Microsoft SQ...		sa					5304	51
ExistingConnection	-- network protocol: LPC set quote...	Microsoft SQ...		sa					5304	52
ExistingConnection	-- network protocol: LPC set quote...	.Net SqlClie...		sa					6232	53
ExistingConnection	-- network protocol: LPC set quote...	.Net SqlClie...		sa					6232	54
ExistingConnection	-- network protocol: LPC set quote...	.Net SqlClie...		sa					6232	56
ExistingConnection	-- network protocol: LPC set quote...	.Net SqlClie...		sa					6232	57
ExistingConnection	-- network protocol: LPC set quote...	Microsoft SQ...		sa					5304	59
RPC:Completed	exec sp_reset_connection	.Net SqlClie...		sa	0	0	0	14	6232	57
SQL:BatchStarting	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa					6232	57
SQL:BatchCompleted	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa	0	0	0	151	6232	57

```
exec sp_executesql N'WITH A AS(SELECT TaskID,ROW_NUMBER() OVER(ORDER BY TaskID DESC) AS RowNum FROM BPMInstTasks WHERE OwnerAccount=@UserAccount AND ExtYear=@ExtYear
AND ExtDeleted=0 AND ((CreateAt>=''2017-01-01 00:00:00'' AND CreateAt<''2018-01-01 00:00:00'')) ),X AS(SELECT BPMInstTasks.*,RowNum FROM A INNER JOIN BPMInstTasks ON
A.TaskID=BPMInstTasks.TaskID WHERE RowNum = 1 OR RowNum BETWEEN @StartRowIndex AND @EndRowIndex),Y AS(SELECT count(*) AS TotalRows FROM A),Z AS(SELECT *,(SELECT
TotalRows FROM Y) as TotalRows FROM X)SELECT * FROM Z ORDER BY RowNum',N'@UserAccount nvarchar(8),@StartRowIndex int,@EndRowIndex int,@ExtYear
int',@UserAccount=N'User7999',@StartRowIndex=1,@EndRowIndex=20,@ExtYear=2017
```

跟踪已暂停。 第 13 行，第 8 列 行数: 26

连接数: 1

1次查询即列出我的申请所有信息

历史任务 SQL Profile

SQL Server Profiler - [无标题 - 1 ((local)\SQL2005)]

☑ 在“持续时间”列中以微秒为单位显示值(仅限 SQL Server 2005)(C)

文件(F) 编辑(E) 视图(V) 重播(R) 工具(T) 窗口(W) 帮助(H)

EventClass	TextData	ApplicationName	NTUserName	LoginName	CPU	Reads	Writes	Duration	ClientProcessID	SPID
RPC:Completed	exec sp_executesql N'WITH A AS(SELE...	.Net SqlClie...		sa	0	146	0	1391	6232	57
RPC:Completed	exec sp_reset_connection	.Net SqlClie...		sa	0	0	0	19	6232	57
SQL:BatchStarting	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa					6232	57
SQL:BatchCompleted	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa	0	0	0	142	6232	57
RPC:Completed	exec sp_reset_connection	.Net SqlClie...		sa	0	0	0	14	6232	57
SQL:BatchStarting	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa					6232	57
SQL:BatchCompleted	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa	0	0	0	140	6232	57
RPC:Completed	exec sp_reset_connection	.Net SqlClie...		sa	0	0	0	13	6232	57
SQL:BatchStarting	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa					6232	57
SQL:BatchCompleted	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa	0	0	0	142	6232	57
RPC:Completed	exec sp_reset_connection	.Net SqlClie...		sa	0	0	0	13	6232	57
SQL:BatchStarting	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa					6232	57
SQL:BatchCompleted	SELECT TableName,Version FROM BPMSy...	.Net SqlClie...		sa	0	0	0	142	6232	57

```
exec sp_executesql N'WITH A AS(SELECT TaskID FROM BPMSecurityTACL WITH(INDEX(YZIX_BPMSecurityTACL_SID)) WHERE SID
IN(N''62e58864-91bd-4bd4-bf5b-cda17982d673'',N''21418948-e1ab-43bb-8ea7-f5f5da839aa7'',N''a31c9fc9-6971-464a-8862-5e0892da671d'',N''d9f6880b-ddc9-449d-9b4b-5d008da6c35a'
AND ExtYear=@ExtYear AND AllowRead=1 AND ExtDeleted = 0),B AS(SELECT TaskID FROM BPMInstProcSteps WHERE (OwnerAccount=@UserAccount OR AgentAccount=@UserAccount OR
ConsignOwnerAccount=@UserAccount) AND ExtYear=@ExtYear AND ExtDeleted = 0),C AS(SELECT TaskID FROM A UNION SELECT TaskID FROM B),D AS(SELECT TaskID,ROW_NUMBER()
OVER(ORDER BY TaskID DESC) AS RowNum FROM C),X AS(SELECT BPMInstTasks.*,RowNum FROM D INNER JOIN BPMInstTasks ON D.TaskID=BPMInstTasks.TaskID WHERE RowNum = 1 OR
RowNum BETWEEN @StartRowIndex AND @EndRowIndex),Y AS(SELECT count(*) AS TotalRows FROM C),Z AS(SELECT *,(SELECT TotalRows FROM Y) as TotalRows FROM X)SELECT * FROM Z
ORDER BY RowNum',N'@UserAccount nvarchar(8),@StartRowIndex int,@EndRowIndex int,@ExtYear int',@UserAccount=N'User7999',@StartRowIndex=1,@EndRowIndex=20,@ExtYear=2017
```

跟踪已暂停。 第 39 行，第 6 列 行数: 52

连接数: 1

1次查询即列出历史任务所有信息

硬件环境

查看有关计算机的基本信息

Windows 版本

Windows 7 旗舰版

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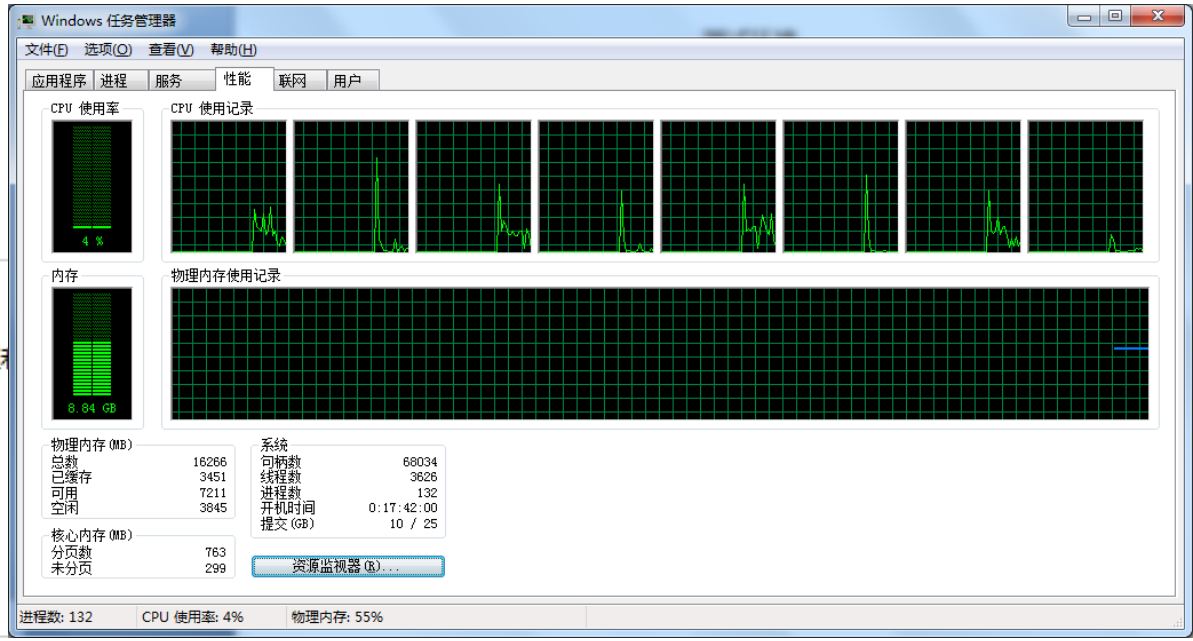
Service Pack 1



系统

型号:	2012.05
分级:	6.8 Windows 体验指数
处理器:	Intel(R) Core(TM) i7-3630QM CPU @ 2.40GHz 2.40 GHz
安装内存(RAM):	16.0 GB (15.9 GB 可用)
系统类型:	64 位操作系统
笔和触摸:	没有可用于此显示器的笔或触控输入

固态硬盘

BPMDBHuge250x1000.mdf	2017-02-19 1:06	SQL Server Data...	51,646,464 KB
BPMDBHuge250x1000_log.ldf	2017-02-19 0:36	SQL Server Data...	3,456 KB

☑ 在“持续时间”列中以微秒为单位显示值(仅限 SQL Server 2005)(C)