

Re: How to get list of EventClasses in MSSQLServer2000

Source: <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2006-10/msg00033.html>

- *From:* "Uri Dimant" <urid@xxxxxxxxxxxx>
 - *Date:* Thu, 5 Oct 2006 11:18:18 +0200
-

Hi

Taken fro Vyas's web site

```
CREATE TABLE [dbo].[Events] (  
[EventClass] [smallint] NOT NULL ,  
[EventName] [varchar] (50) NOT NULL ,  
[EventDescription] [varchar] (300) NULL  
) ON [PRIMARY]  
GO
```

```
CREATE UNIQUE CLUSTERED INDEX [UCI_Events_EventClass] ON  
[dbo].[Events]([EventClass]) ON [PRIMARY]  
GO
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(44,'SP:StmtStarting','SQL  
statement inside a stored procedure is starting.')
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(45,'SP:StmtCompleted','SQL  
statement inside a stored procedure has completed.')
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(46,'Object:Created','Indicates  
that an object has been created, such as for CREATE INDEX, CREATE TABLE, and  
CREATE DATABASE statements.')
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(47,'Object:Deleted','Indicates  
that an object has been deleted, such as in DROP INDEX and DROP TABLE  
statements.')
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(48,'Reserved','')
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(49,'Reserved','')
```

```
INSERT INTO [events]  
([EventClass],[EventName],[EventDescription])VALUES(50,'SQL  
Transaction','Tracks Transact-SQL BEGIN, COMMIT, SAVE, and ROLLBACK  
TRANSACTION statements.')
```

```
INSERT INTO [events]
```

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```
([EventClass],[EventName],[EventDescription])VALUES(51,'Scan:Started','Indicates
when a table or index scan has started.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(52,'Scan:Stopped','Indicates
when a table or index scan has stopped.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(53,'CursorOpen','Indicates
when a cursor is opened on a Transact–SQL statement by ODBC, OLE DB, or
DB–Library.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(54,'Transaction
Log','Tracks when transactions are written to the transaction log.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(55,'Hash
Warning','Indicates that a hashing operation (for example, hash join, hash
aggregate, hash union, and hash distinct) that is not processing on a buffer
partition has reverted to an alternate plan. This can occur because of
recursion depth, data skew, trace flags, or bit counting.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(56,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(57,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(58,'Auto Update
Stats','Indicates an automatic updating of index statistics has occurred.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(59,'Lock:Deadlock
Chain','Produced for each of the events leading up to the deadlock.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(60,'Lock:Escalation','Indicates
that a finer–grained lock has been converted to a coarser–grained lock (for
example, a row lock escalated or converted to a page lock).')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(61,'OLE DB
Errors','Indicates that an OLE DB error has occurred.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(62,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(63,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(64,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(65,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(66,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(67,'Execution
Warnings','Indicates any warnings that occurred during the execution of a
SQL Server statement or stored procedure.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(68,'Execution
```

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Plan', 'Displays the plan tree of the Transact-SQL statement executed.')

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(69,'Sort Warnings','Indicates sort operations that do not fit into memory. Does not include sort operations involving the creating of indexes; only sort operations within a query (such as an ORDER BY clause used in a SELECT statement).')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(70,'CursorPrepare','Indicates when a cursor on a Transact-SQL statement is prepared for use by ODBC, OLE DB, or DB-Library.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(71,'Prepare SQL','ODBC, OLE DB, or DB-Library has prepared a Transact-SQL statement or statements for use.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(72,'Exec Prepared SQL','ODBC, OLE DB, or DB-Library has executed a prepared Transact-SQL statement or statements.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(73,'Unprepare SQL','ODBC, OLE DB, or DB-Library has unprepared (deleted) a prepared Transact-SQL statement or statements.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(74,'CursorExecute','A cursor previously prepared on a Transact-SQL statement by ODBC, OLE DB, or DB-Library is executed.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(75,'CursorRecompile','A cursor opened on a Transact-SQL statement by ODBC or DB-Library has been recompiled either directly or due to a schema change. Triggered for ANSI and non-ANSI cursors.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(76,'CursorImplicitConversion','A cursor on a Transact-SQL statement is converted by SQL Server from one type to another.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(77,'CursorUnprepare','A prepared cursor on a Transact-SQL statement is unprepared (deleted) by ODBC, OLE DB, or DB-Library.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(78,'CursorClose','A cursor previously opened on a Transact-SQL statement by ODBC, OLE DB, or DB-Library is closed.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(79,'Missing Column Statistics','Column statistics that could have been useful for the optimizer are not available.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(80,'Missing Join Predicate','Query that has no join predicate is being executed. This could
```

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result in a long-running query.')

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(81,'Server Memory Change','Microsoft SQL Server memory usage has increased or decreased by either 1 megabyte (MB) or 5 percent of the maximum server memory, whichever is greater.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(82,'User Configurable (0)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(83,'User Configurable (1)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(84,'User Configurable (2)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(85,'User Configurable (3)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(86,'User Configurable (4)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(87,'User Configurable (5)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(88,'User Configurable (6)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(89,'User Configurable (7)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(90,'User Configurable (8)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(91,'User Configurable (9)','Event data defined by the user.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(92,'Data File Auto Grow','Indicates that a data file was extended automatically by the server.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(93,'Log File Auto Grow','Indicates that a data file was extended automatically by the server.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(94,'Data File Auto Shrink','Indicates that a data file was shrunk automatically by the server.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(95,'Log File Auto Shrink','Indicates that a log file was shrunk automatically by the server.')
```

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```
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(96,'Show Plan
Text','Displays the query plan tree of the SQL statement from the query
optimizer.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(97,'Show Plan
ALL','Displays the query plan with full compile-time details of the SQL
statement executed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(98,'Show Plan
Statistics','Displays the query plan with full run-time details of the SQL
statement executed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(99,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(100,'RPC Output
Parameter','Produces output values of the parameters for every RPC.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(101,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(102,'Audit Statement
GDR','Occurs every time a GRANT, DENY, REVOKE for a statement permission is
issued by any user in SQL Server.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(103,'Audit Object
GDR','Occurs every time a GRANT, DENY, REVOKE for an object permission is
issued by any user in SQL Server.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(104,'Audit Add/Drop
Login','Occurs when a SQL Server login is added or removed; for sp_addlogin
and sp_droplogin.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(105,'Audit Login
GDR','Occurs when a Microsoft Windows&reg; login right is added or removed;
for sp_grantlogin, sp_revokellogin, and sp_denylogin.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(106,'Audit Login Change
Property','Occurs when a property of a login, except passwords, is modified;
for sp_defaultdb and sp_defaultlanguage.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(107,'Audit Login Change
Password','Occurs when a SQL Server login password is changed.Passwords are
not recorded.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(108,'Audit Add Login to
Server Role','Occurs when a login is added or removed from a fixed server
role; for sp_addsrvrolemember, and sp_dropsrvrolemember.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(109,'Audit Add DB
User','Occurs when a login is added or removed as a database user (Windows
or SQL Server) to a database; for sp_grantdbaccess, sp_revokedbaccess,
```

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```
sp_adduser, and sp_dropuser.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(110,'Audit Add Member to
DB','Occurs when a login is added or removed as a database user (fixed or
user-defined) to a database; for sp_addrolemember, sp_droprolemember, and
sp_changegroup.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(111,'Audit Add/Drop
Role','Occurs when a login is added or removed as a database user to a
database; for sp_addrole and sp_droprole.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(112,'App Role Pass
Change','Occurs when a password of an application role is changed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(113,'Audit Statement
Permission','Occurs when a statement permission (such as CREATE TABLE) is
used.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(114,'Audit Object
Permission','Occurs when an object permission (such as SELECT) is used, both
successfully or unsuccessfully.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(115,'Audit
Backup/Restore','Occurs when a BACKUP or RESTORE command is issued.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(116,'Audit DBCC','Occurs
when DBCC commands are issued.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(117,'Audit Change
Audit','Occurs when audit trace modifications are made.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(118,'Audit Object
Derived Permission','Occurs when a CREATE, ALTER, and DROP object commands
are issued.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(0,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(1,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(2,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(3,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(4,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(5,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(6,'Reserved','')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(7,'Reserved','')
INSERT INTO [events]
```

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```
([EventClass],[EventName],[EventDescription])VALUES(8,'Reserved','")
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(9,'Reserved','")
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(10,'RPC:Completed','Occurs
when a remote procedure call (RPC) has completed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(11,'RPC:Starting','Occurs
when an RPC has started.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(12,'SQL:BatchCompleted','Occurs
when a Transact-SQL batch has completed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(13,'SQL:BatchStarting','Occurs
when a Transact-SQL batch has started.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(14,'Login','Occurs when
a user successfully logs in to SQL Server.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(15,'Logout','Occurs when
a user logs out of SQL Server.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(16,'Attention','Occurs
when attention events, such as client-interrupt requests or broken client
connections, happen.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(17,'ExistingConnection','Detects
all activity by users connected to SQL Server before the trace started.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(18,'ServiceControl','Occurs
when the SQL Server service state is modified.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(19,'DTCTransaction','Tracks
Microsoft Distributed Transaction Coordinator (MS DTC) coordinated
transactions between two or more databases.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(20,'Login
Failed','Indicates that a login attempt to SQL Server from a client
failed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(21,'EventLog','Indicates
that events have been logged in the Microsoft Windows NT&reg; application
log.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(22,'ErrorLog','Indicates
that error events have been logged in the SQL Server error log.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(23,'Lock:Released','Indicates
that a lock on a resource, such as a page, has been released.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(24,'Lock:Acquired','Indicates
```

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acquisition of a lock on a resource, such as a data page.')

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(25,'Lock:Deadlock','Indicates that two concurrent transactions have deadlocked each other by trying to obtain incompatible locks on resources the other transaction owns.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(26,'Lock:Cancel','Indicates that the acquisition of a lock on a resource has been canceled (for example, due to a deadlock).')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(27,'Lock:Timeout','Indicates that a request for a lock on a resource, such as a page, has timed out due to another transaction holding a blocking lock on the required resource. Time-out is determined by the @@LOCK_TIMEOUT function, and can be set with the SET LOCK_TIMEOUT statement.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(28,'DOP Event','Occurs before a SELECT, INSERT, or UPDATE statement is executed.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(29,'Reserved','Use Event 28 instead.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(30,'Reserved','Use Event 28 instead.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(31,'Reserved','Use Event 28 instead.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(32,'Reserved','')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(33,'Exception','Indicates that an exception has occurred in SQL Server.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(34,'SP:CacheMiss','Indicates when a stored procedure is not found in the procedure cache.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(35,'SP:CacheInsert','Indicates when an item is inserted into the procedure cache.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(36,'SP:CacheRemove','Indicates when an item is removed from the procedure cache.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(37,'SP:Recompile','Indicates that a stored procedure was recompiled.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(38,'SP:CacheHit','Indicates when a stored procedure is found in the procedure cache.')
```

```
INSERT INTO [events]
```

```
([EventClass],[EventName],[EventDescription])VALUES(39,'SP:ExecContextHit','Indicates when the execution version of a stored procedure has been found in the procedure cache.')
```

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```
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(40,'SQL:StmtStarting','Occurs
when the Transact-SQL statement has started.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(41,'SQL:StmtCompleted','Occurs
when the Transact-SQL statement has completed.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(42,'SP:Starting','Indicates
when the stored procedure has started.')
INSERT INTO [events]
([EventClass],[EventName],[EventDescription])VALUES(43,'SP:Completed','Indicates
when the stored procedure has completed.')
```

"SomaSekhar" <SomaSekhar@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:1F3FC9E1-32F3-4B9E-A2A4-1C3FF2B30588@xxxxxxxxxxxxxxxxxxxx

Hi Uri,

What is the better solution for this. How to get list of EventId's and
EventClass name on SQL Server 2000. Because i am using
fn_trace_gettable('trace file name', default), it's giving in EventClass
as
a EventID. Insted of EventID i need EventClass name. How achive this in
SQL
Server 2000. In SQL Server 2005 i am using INNER JOIN condion on
sys.trace_events i am comparing both event ID's i am getiting EventClass
name. Please check this query,

```
--This will work on MS SQL Server 2005
SELECT TextData,trace_event_id,category_id,name
FROM fn_trace_gettable('E:\Somu\trace_events.trc', default) EventLog
INNER JOIN sys.trace_events EventID ON EventLog.EventClass =
EventID.trace_event_id
```

NOTE : in the above query "E:\Somu\trace_events.trc – Insted of this give
give Ur trace file location"

What is the equallent Query in MS SQL Server 2000.

Thanks & Regards
–SomaSekhar

"Uri Dimant" wrote:

Hi

I'm afraid you cannot get it in SQL Server 2000
sp_trace_setevent stored procedure has a parameter EventId and there is
a

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list of event numbers (See BOL)

"SomaSekhar" <SomaSekhar@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:6E597B1F-590C-403B-A964-9EF67AF5D923@xxxxxxxxxxxxxxxxxxxx

Hi,

I am working on MS SQL Sever 2005 & 2000; I am interest on audit traces.

In MSSQL 2005 I am using built in system table like sys.trace_events I am

able to see list of events. When executing the following query.

```
SELECT * FROM sys.trace_events;
```

Is there any equal lent table available on MSSQLServer 2000. I tried a lot, I am unable to get. Please any body help on this issue.

Thanks & Regards
-SomaSekhar