

APPLIES TO:

Kernel Upgrade

SUMMARY

This article explains how to upgrade the Kernel on Windows Environment 32-Bit Machines

AUTHOR:

K.VENKATA RAMU.

COMPANY:

WILLSYS INFOSYSTEMS Pvt. Ltd.,

CREATED ON:

31st October 2011.



KERNEL UPGRADE

It is used to replace the existing Executables with a new set of executables.

SAP Kernel Resides in /sapmnt/<SID>/exe (or)

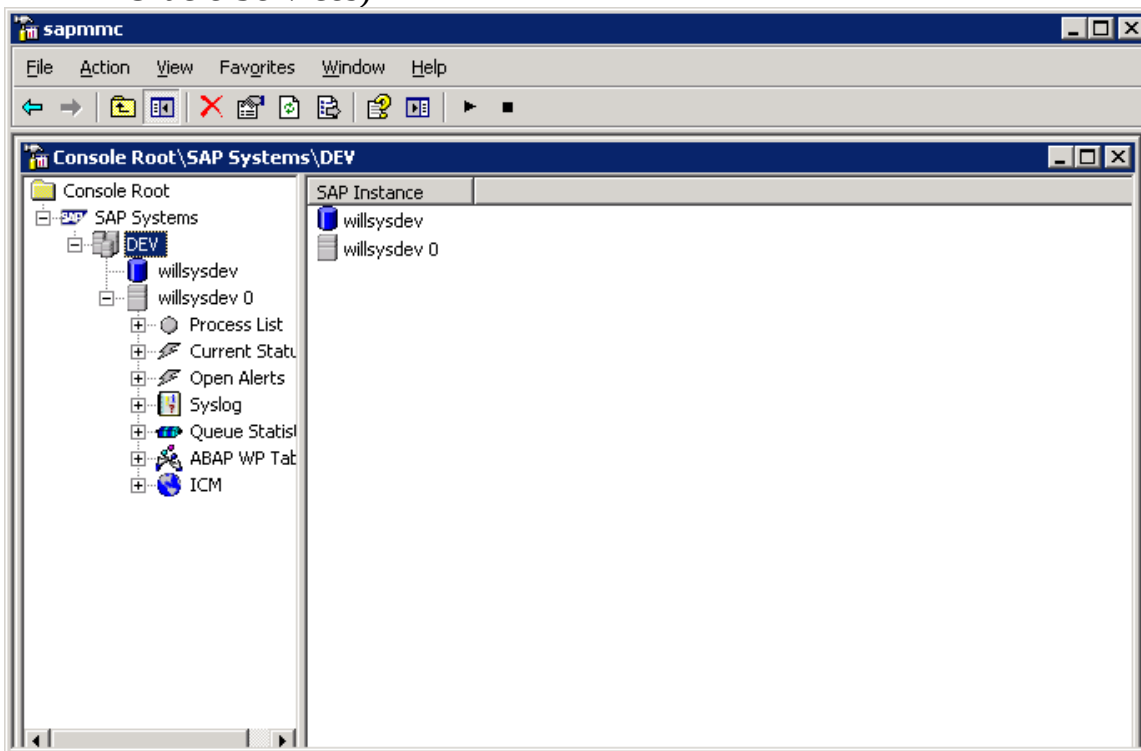
/usr/sap/<SID>/SYS/exe/UC/NTI386 for 32bit Machines

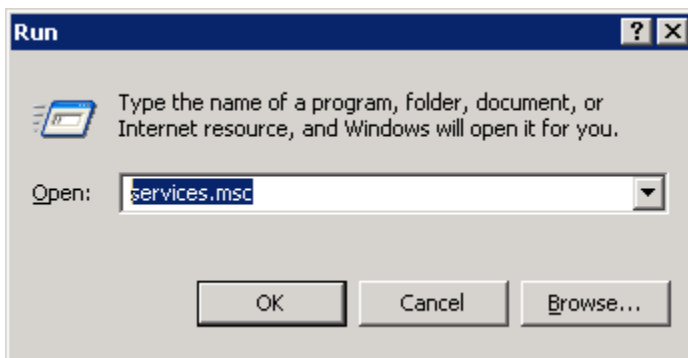
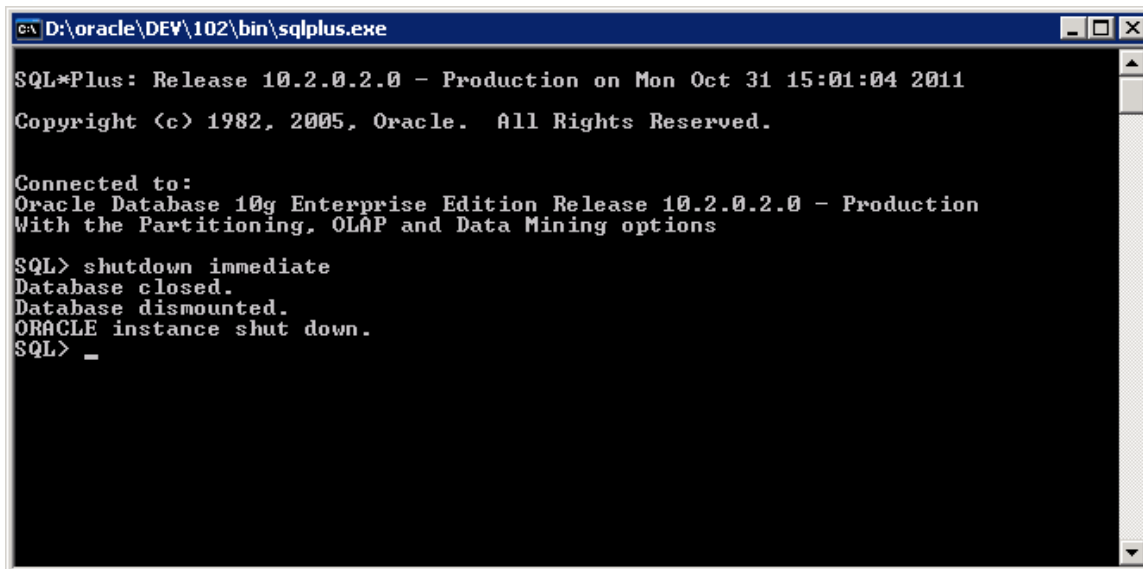
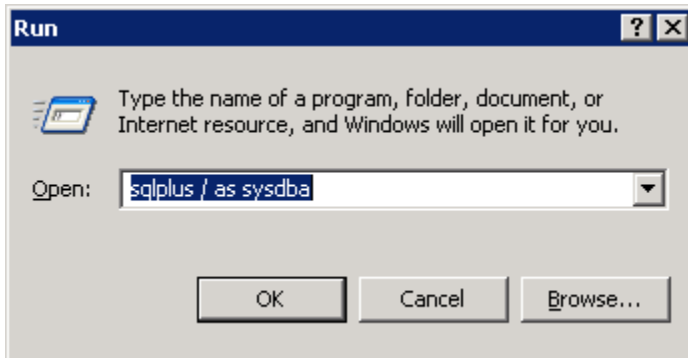
/usr/sap/<SID>/SYS/exe/UC/NTAMD64 for 64bit Machines

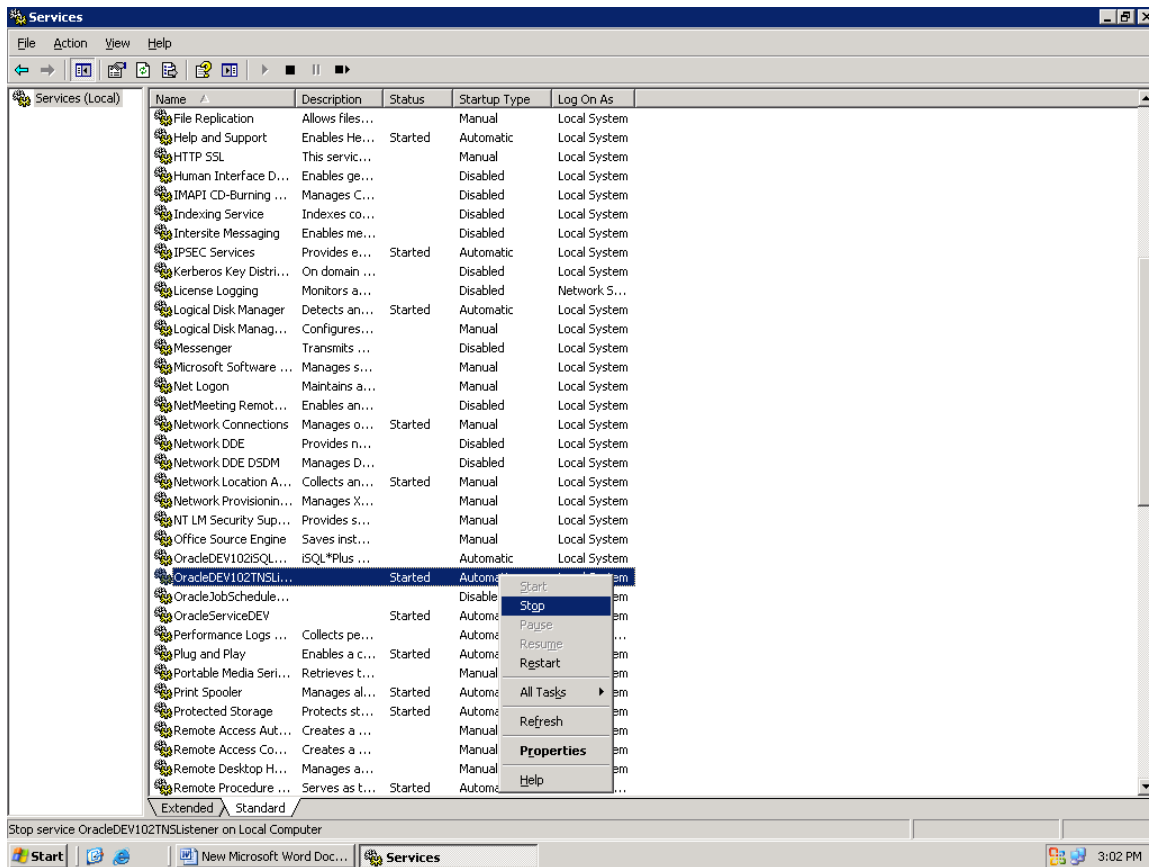
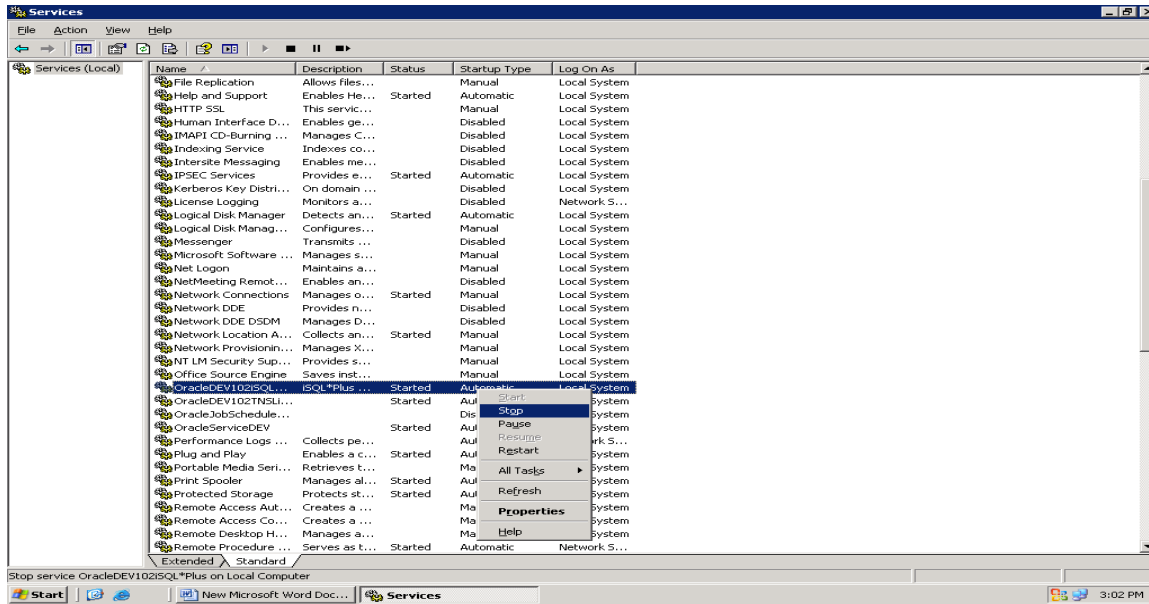
1. While deploying support Packages a Pre-Requisite is Kernel needs to be upgraded.
2. During an SAP OS/DB upgrade (or) patching
3. SAP Recommendations to secure the system (or) Resolve a conflict (or) an issue.
4. we can check the Kernel Version by executing command “disp+work”
cmd → disp+work on Windows Environment

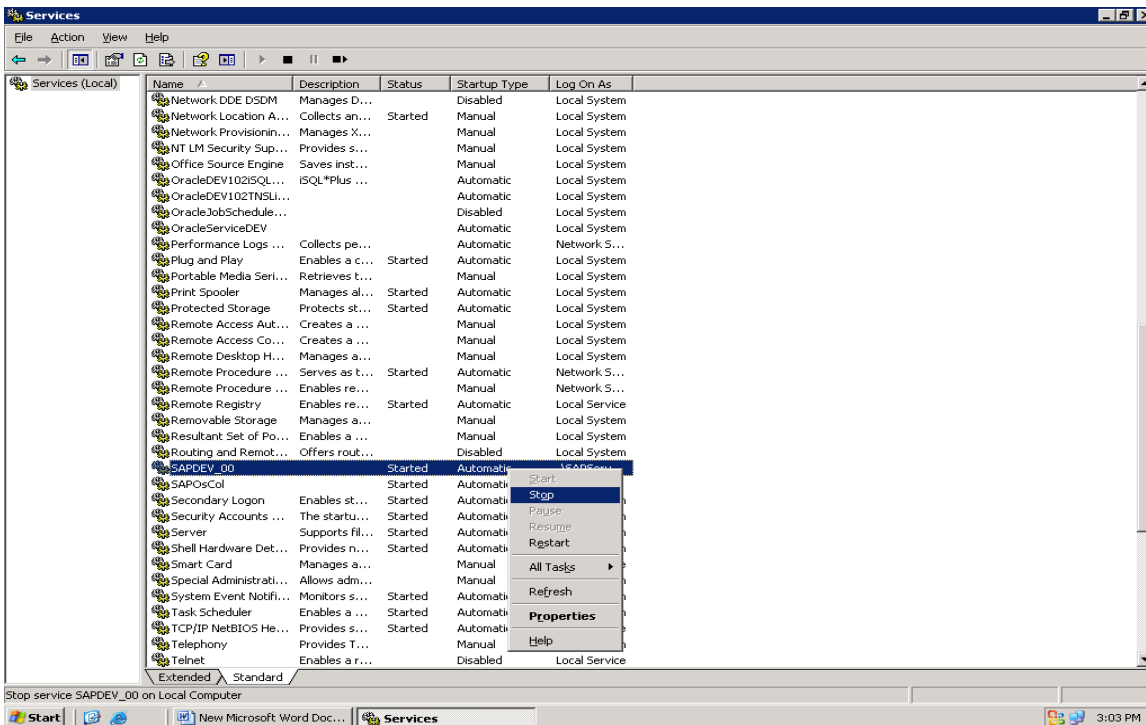
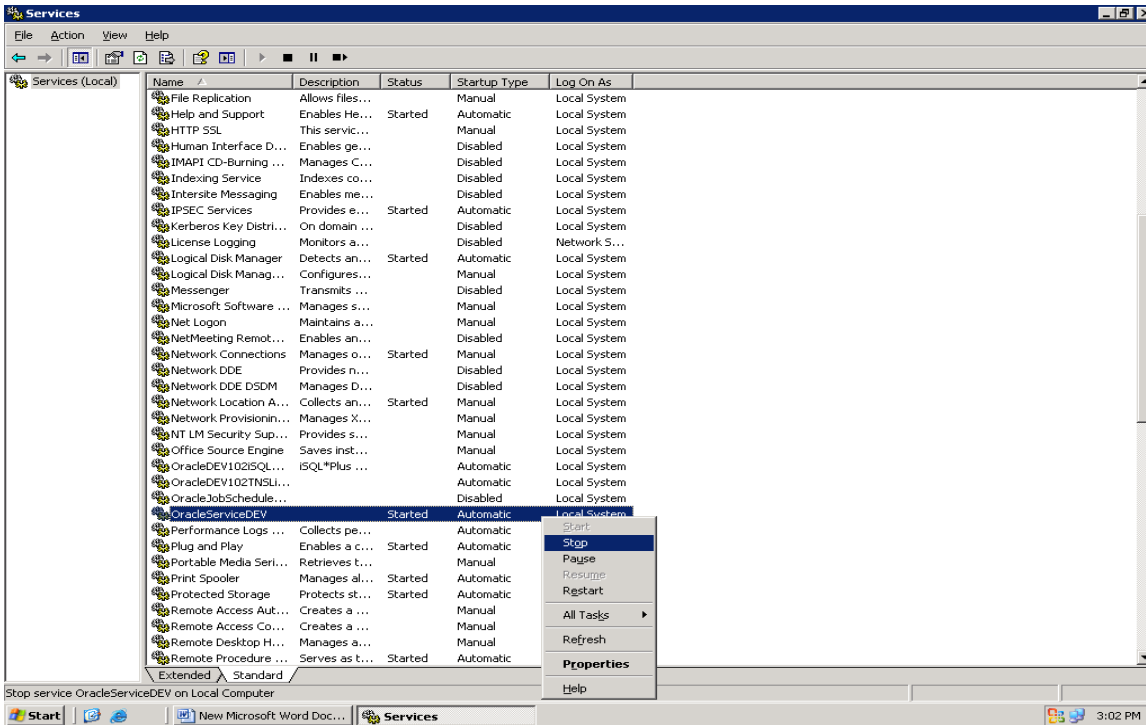
PROCESS:

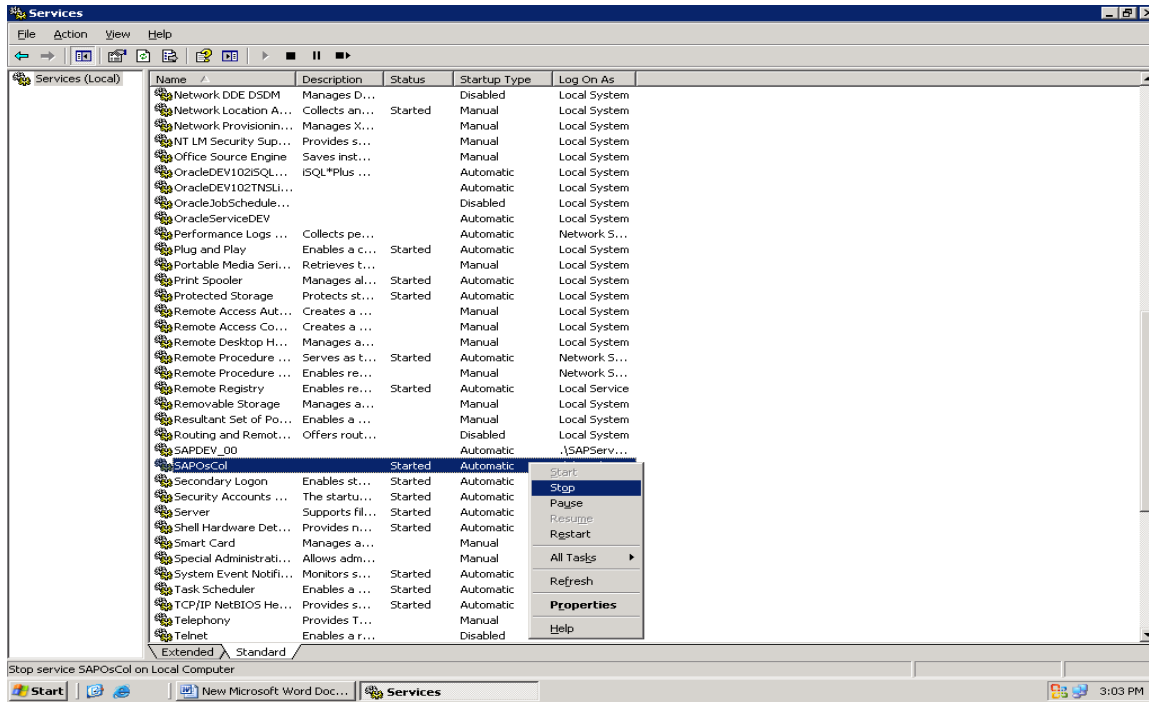
1. Stop SAP System, Stop Services (SAPOSCOL, SAP<SID>_00, All Oracle Services)



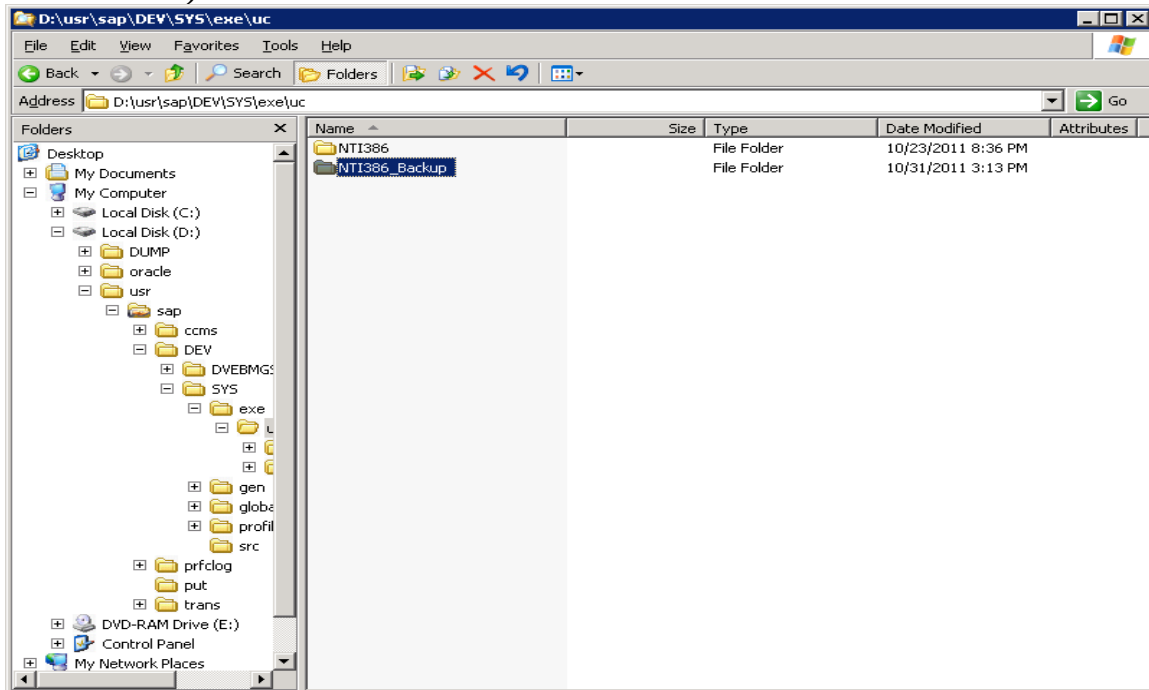




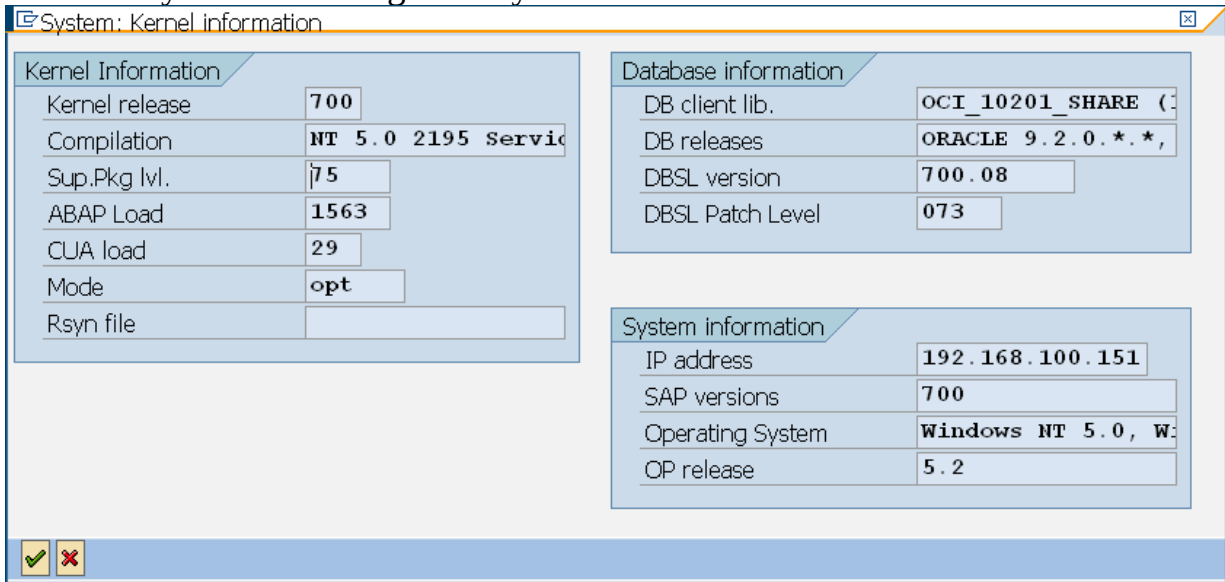




2. Backup The Kernel Directory for Rollback in any inconsistencies with the new kernel. (Copy the NTI386 or NTAMD64 folder into different Location)



3. Check the present kernel Patch level by executing disp+work (or) login to the system and navigate to system→status→



Kernel Information		Database information	
Kernel release	700	DB client lib.	OCI_10201_SHARE (
Compilation	NT 5.0 2195 Service	DB releases	ORACLE 9.2.0.*.*,
Sup.Pkg lvl.	75	DBSL version	700.08
ABAP Load	1563	DBSL Patch Level	073
CUA load	29		
Mode	opt		
Rsyn file			

System information	
IP address	192.168.100.151
SAP versions	700
Operating System	Windows NT 5.0, W
OP release	5.2

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\devadm>disp+work

-----
disp+work information
-----

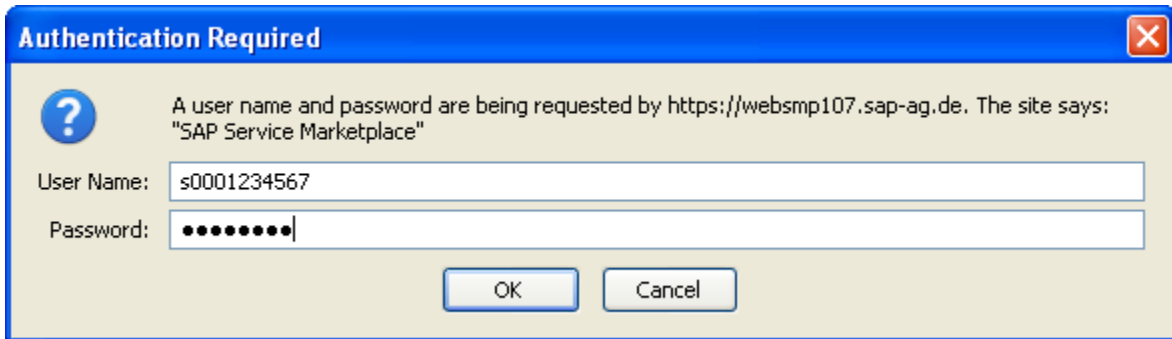
kernel release                700
kernel make variant          700_REL
compiled on                   NT 5.0 2195 Service Pack 4 x86 MS UC++ 13.10
compilation mode              UNICODE
compile time                  Aug 29 2006 00:18:21
update level                  0
patch number                  75
source id                     0.075

-----
supported environment
-----

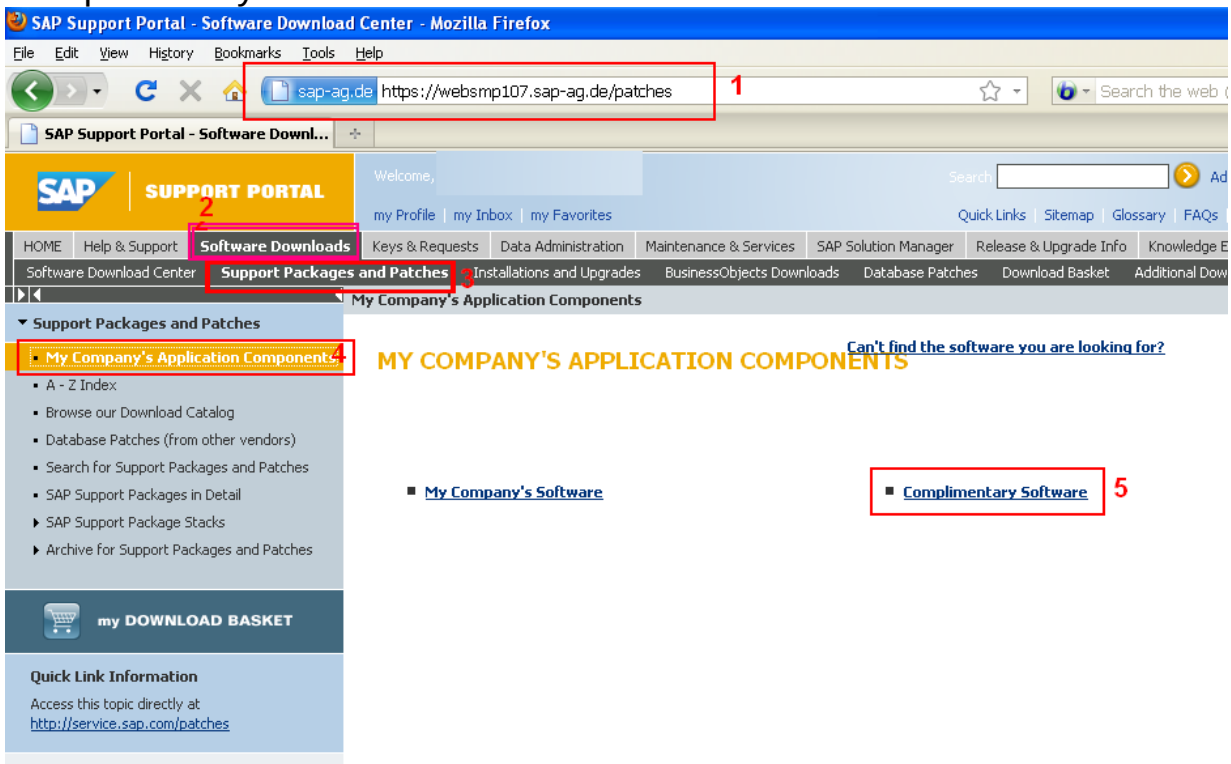
database <SAP, table SUERS>  700

operating system
Windows NT 5.0
Windows NT 5.1
    
```

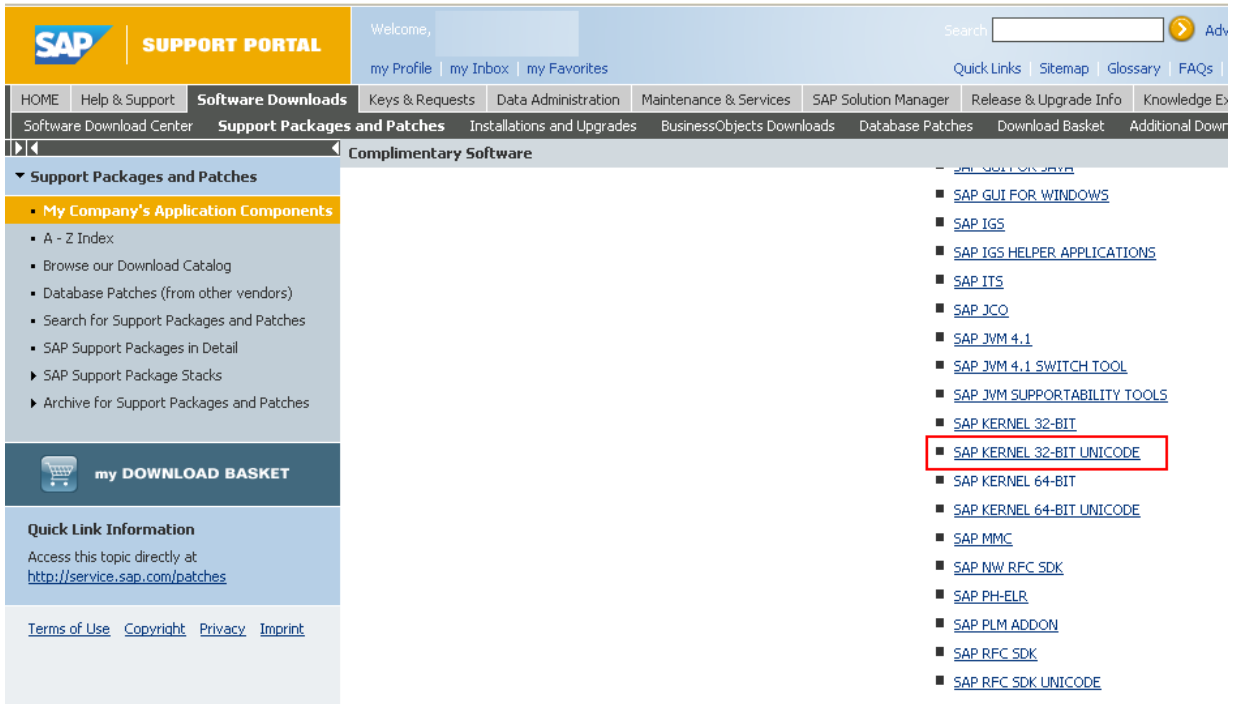
- 4. Download the Latest Kernel from SAP Service Market Place (SMP) specific to Release, OS, DB, Hardware and Unicode/Non-Unicode Execute the URL www.service.sap.com/patches to download the latest kernel and specify the S-USERID and Password



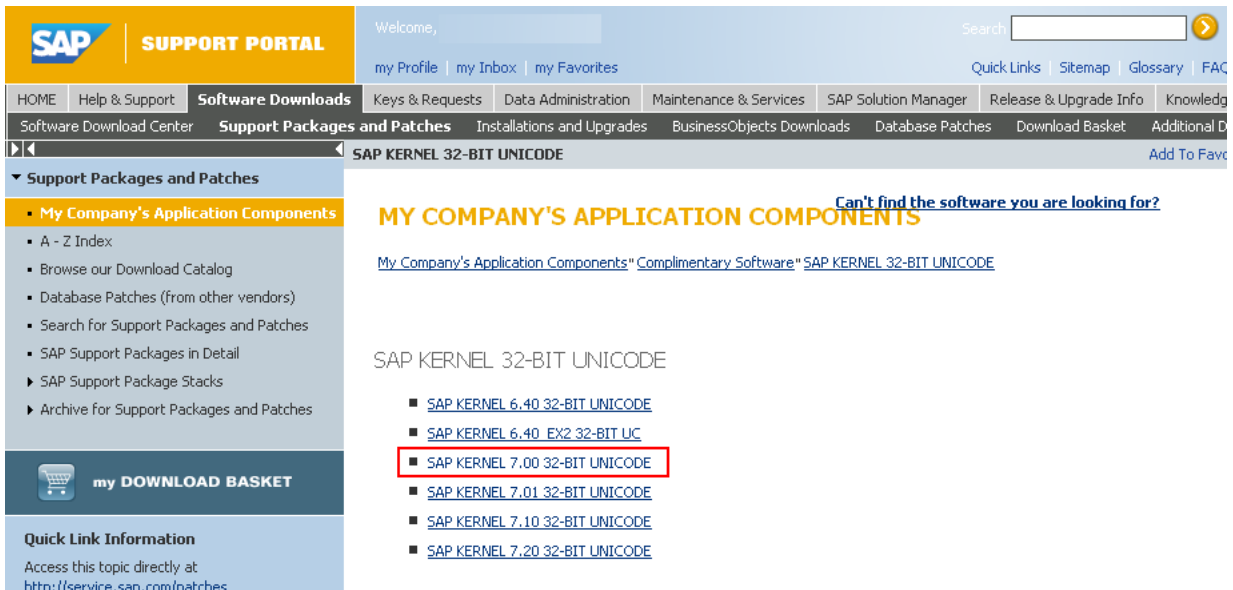
Navigate to software Downloads→support packages and patches→My Company Application Components→Click on Complimentary Software→



Now select the kernel based on 32/64bit and Unicode/Non-Unicode

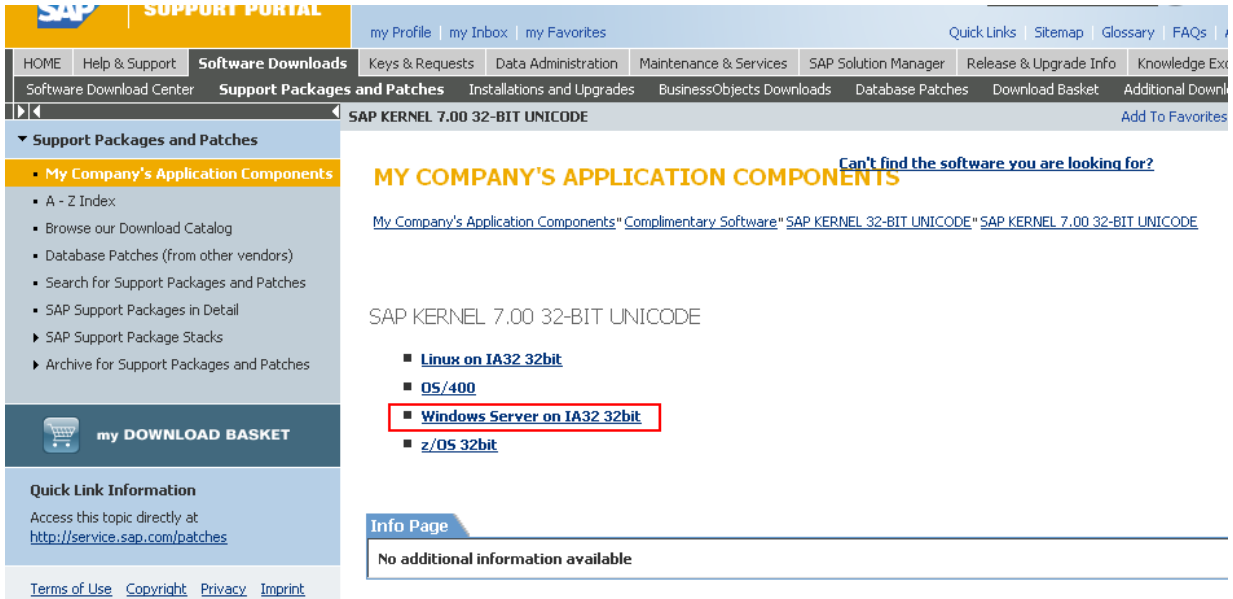


The screenshot shows the SAP Support Portal interface. The main navigation bar includes 'HOME', 'Help & Support', 'Software Downloads', 'Keys & Requests', 'Data Administration', 'Maintenance & Services', 'SAP Solution Manager', 'Release & Upgrade Info', and 'Knowledge Base'. The 'Software Downloads' section is expanded to show 'Support Packages and Patches', 'Installations and Upgrades', 'BusinessObjects Downloads', 'Database Patches', 'Download Basket', and 'Additional Downloads'. Under 'Support Packages and Patches', there is a sub-section for 'Complimentary Software' with a list of links. The link 'SAP KERNEL 32-BIT UNICODE' is highlighted with a red rectangular box.



The screenshot shows the SAP Support Portal interface with the search results for 'SAP KERNEL 32-BIT UNICODE'. The main heading is 'MY COMPANY'S APPLICATION COMPONENTS'. Below it, there is a link to 'My Company's Application Components" Complimentary Software" SAP KERNEL 32-BIT UNICODE'. A message above the results says 'Can't find the software you are looking for?'. The search results list several versions of 'SAP KERNEL 32-BIT UNICODE'. The version 'SAP KERNEL 7.00 32-BIT UNICODE' is highlighted with a red rectangular box.

Select the “windows server on IA32 32bit” →



SAP SUPPORT PORTAL | my Profile | my Inbox | my Favorites | Quick Links | Sitemap | Glossary | FAQs | ...

HOME | Help & Support | **Software Downloads** | Keys & Requests | Data Administration | Maintenance & Services | SAP Solution Manager | Release & Upgrade Info | Knowledge Ex...

Software Download Center | **Support Packages and Patches** | Installations and Upgrades | BusinessObjects Downloads | Database Patches | Download Basket | Additional Downl...

SAP KERNEL 7.00 32-BIT UNICODE | Add To Favorites

▼ Support Packages and Patches

• My Company's Application Components

- A - Z Index
- Browse our Download Catalog
- Database Patches (from other vendors)
- Search for Support Packages and Patches
- SAP Support Packages in Detail
- ▶ SAP Support Package Stacks
- ▶ Archive for Support Packages and Patches

my DOWNLOAD BASKET

Quick Link Information
Access this topic directly at <http://service.sap.com/patches>

[Terms of Use](#) | [Copyright](#) | [Privacy](#) | [Imprint](#)

MY COMPANY'S APPLICATION COMPONENTS [Can't find the software you are looking for?](#)

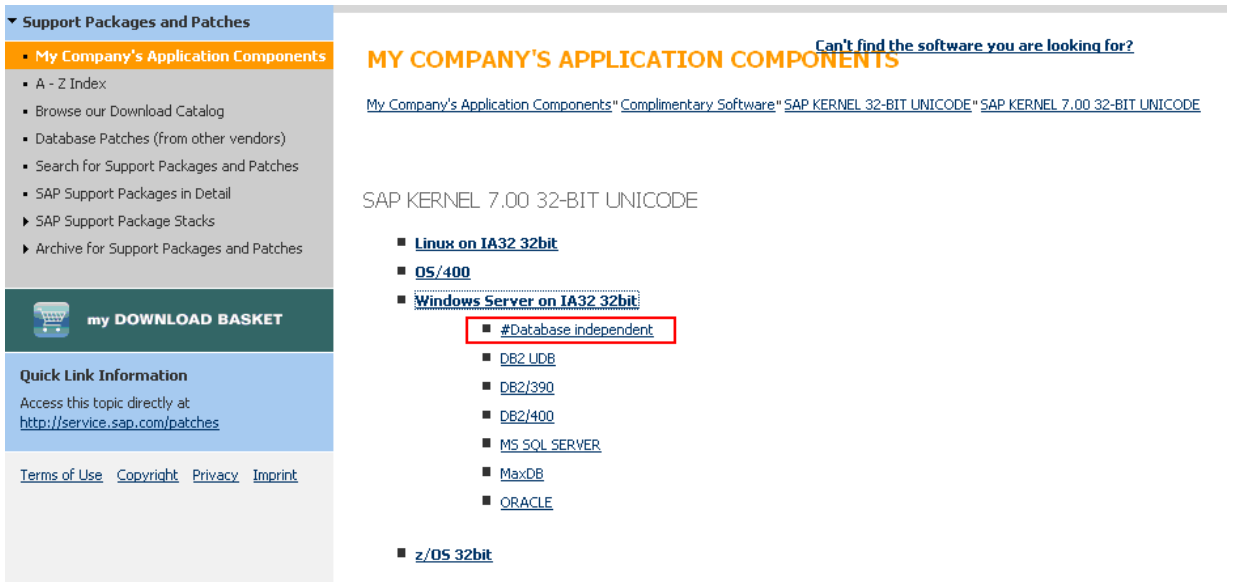
[My Company's Application Components](#) | [Complimentary Software](#) | [SAP KERNEL 32-BIT UNICODE](#) | [SAP KERNEL 7.00 32-BIT UNICODE](#)

SAP KERNEL 7.00 32-BIT UNICODE

- [Linux on IA32 32bit](#)
- [OS/400](#)
- **[Windows Server on IA32 32bit](#)**
- [z/OS 32bit](#)

Info Page

No additional information available



SAP SUPPORT PORTAL | my Profile | my Inbox | my Favorites | Quick Links | Sitemap | Glossary | FAQs | ...

HOME | Help & Support | **Software Downloads** | Keys & Requests | Data Administration | Maintenance & Services | SAP Solution Manager | Release & Upgrade Info | Knowledge Ex...

Software Download Center | **Support Packages and Patches** | Installations and Upgrades | BusinessObjects Downloads | Database Patches | Download Basket | Additional Downl...

SAP KERNEL 7.00 32-BIT UNICODE | Add To Favorites

▼ Support Packages and Patches

• My Company's Application Components

- A - Z Index
- Browse our Download Catalog
- Database Patches (from other vendors)
- Search for Support Packages and Patches
- SAP Support Packages in Detail
- ▶ SAP Support Package Stacks
- ▶ Archive for Support Packages and Patches

my DOWNLOAD BASKET

Quick Link Information
Access this topic directly at <http://service.sap.com/patches>

[Terms of Use](#) | [Copyright](#) | [Privacy](#) | [Imprint](#)

MY COMPANY'S APPLICATION COMPONENTS [Can't find the software you are looking for?](#)

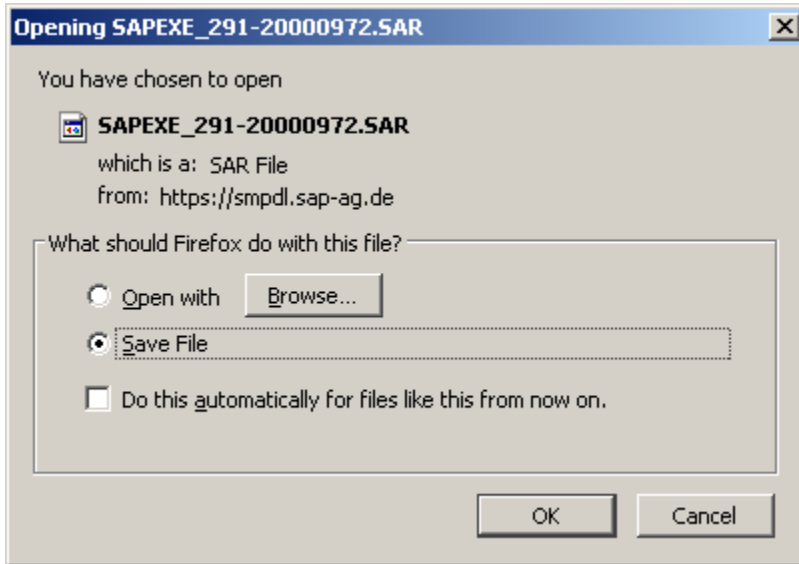
[My Company's Application Components](#) | [Complimentary Software](#) | [SAP KERNEL 32-BIT UNICODE](#) | [SAP KERNEL 7.00 32-BIT UNICODE](#)

SAP KERNEL 7.00 32-BIT UNICODE

- [Linux on IA32 32bit](#)
- [OS/400](#)
- [Windows Server on IA32 32bit](#)
- **[#Database independent](#)**
 - [DB2 LDB](#)
 - [DB2/390](#)
 - [DB2/400](#)
 - [MS SQL SERVER](#)
 - [MaxDB](#)
 - [ORACLE](#)
- [z/OS 32bit](#)

Select the Database Independent and download the kernel files
 “SAPEXE_291-20000972.SAR” file and click on add to Download Basket

HOME		Help & Support	Software Downloads	Keys & Requests	Data Administration	Maintenance & Services	SAP Solution Manager	Release & Upgrade Info	Knowledge Exchange																																																																																																																																																																																																								
Software Download Center		Support Packages and Patches		Installations and Upgrades	BusinessObjects Downloads	Database Patches	Download Basket	Additional Download Info																																																																																																																																																																																																									
<table border="1"> <thead> <tr> <th colspan="10">#Database independent</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_146-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>146</td> <td>Info</td> <td>173163</td> <td>18.03.2008</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_159-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>159</td> <td>Info</td> <td>175852</td> <td>01.07.2008</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_175-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>175</td> <td>Info</td> <td>177545</td> <td>15.10.2008</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_185-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>185</td> <td>Info</td> <td>178724</td> <td>07.01.2009</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_201-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>201</td> <td>Info</td> <td>180756</td> <td>03.06.2009</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_221-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>221</td> <td>Info</td> <td>179504</td> <td>25.08.2009</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_236-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>236</td> <td>Info</td> <td>181711</td> <td>25.01.2010</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_254-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>254</td> <td>Info</td> <td>181244</td> <td>05.07.2010</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_278-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>278</td> <td>Info</td> <td>184280</td> <td>13.12.2010</td> <td colspan="2"></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_291-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>291</td> <td>Info</td> <td>185334</td> <td>12.05.2011</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAPEXE_310-20000972.SAR</td> <td>Kernel Part I (for Basis 7.00)</td> <td>310</td> <td>Info</td> <td>187962</td> <td>05.08.2011</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAP32EE_53-20000972.SAR</td> <td>SAP32EE</td> <td>53</td> <td>Info</td> <td>53617</td> <td>10.09.2009</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAP32EE_60-20000972.SAR</td> <td>SAP32EE</td> <td>60</td> <td>Info</td> <td>55014</td> <td>02.07.2010</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAP32EE_62-20000972.SAR</td> <td>SAP32EE</td> <td>62</td> <td>Info</td> <td>55331</td> <td>24.08.2010</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SAP32EE_65-20000972.SAR</td> <td>SAP32EE</td> <td>65</td> <td>Info</td> <td>56003</td> <td>06.04.2011</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SCSCLIENT_5-20000972.SAR</td> <td>SCSCLIENT</td> <td>5</td> <td>Info</td> <td>42758</td> <td>12.02.2010</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>SNMPLIB_6-20000972.SAR</td> <td>SNMPLIB</td> <td>6</td> <td>Info</td> <td>1452</td> <td>03.03.2009</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>UCLIB_3-20000972.SAR</td> <td>Unicode Libraries.</td> <td>3</td> <td>Info</td> <td>8630</td> <td>11.04.2007</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>SAR</td> <td>VSCAN RFC 49-20000972.SAR</td> <td>VSCAN RFC</td> <td>49</td> <td>Info</td> <td>416</td> <td>10.04.2006</td> <td colspan="2"></td> </tr> </tbody> </table>										#Database independent										<input type="checkbox"/>	SAR	SAPEXE_146-20000972.SAR	Kernel Part I (for Basis 7.00)	146	Info	173163	18.03.2008			<input type="checkbox"/>	SAR	SAPEXE_159-20000972.SAR	Kernel Part I (for Basis 7.00)	159	Info	175852	01.07.2008			<input type="checkbox"/>	SAR	SAPEXE_175-20000972.SAR	Kernel Part I (for Basis 7.00)	175	Info	177545	15.10.2008			<input type="checkbox"/>	SAR	SAPEXE_185-20000972.SAR	Kernel Part I (for Basis 7.00)	185	Info	178724	07.01.2009			<input type="checkbox"/>	SAR	SAPEXE_201-20000972.SAR	Kernel Part I (for Basis 7.00)	201	Info	180756	03.06.2009			<input type="checkbox"/>	SAR	SAPEXE_221-20000972.SAR	Kernel Part I (for Basis 7.00)	221	Info	179504	25.08.2009			<input type="checkbox"/>	SAR	SAPEXE_236-20000972.SAR	Kernel Part I (for Basis 7.00)	236	Info	181711	25.01.2010			<input type="checkbox"/>	SAR	SAPEXE_254-20000972.SAR	Kernel Part I (for Basis 7.00)	254	Info	181244	05.07.2010			<input type="checkbox"/>	SAR	SAPEXE_278-20000972.SAR	Kernel Part I (for Basis 7.00)	278	Info	184280	13.12.2010			<input checked="" type="checkbox"/>	SAR	SAPEXE_291-20000972.SAR	Kernel Part I (for Basis 7.00)	291	Info	185334	12.05.2011			<input type="checkbox"/>	SAR	SAPEXE_310-20000972.SAR	Kernel Part I (for Basis 7.00)	310	Info	187962	05.08.2011			<input type="checkbox"/>	SAR	SAP32EE_53-20000972.SAR	SAP32EE	53	Info	53617	10.09.2009			<input type="checkbox"/>	SAR	SAP32EE_60-20000972.SAR	SAP32EE	60	Info	55014	02.07.2010			<input type="checkbox"/>	SAR	SAP32EE_62-20000972.SAR	SAP32EE	62	Info	55331	24.08.2010			<input type="checkbox"/>	SAR	SAP32EE_65-20000972.SAR	SAP32EE	65	Info	56003	06.04.2011			<input type="checkbox"/>	SAR	SCSCLIENT_5-20000972.SAR	SCSCLIENT	5	Info	42758	12.02.2010			<input type="checkbox"/>	SAR	SNMPLIB_6-20000972.SAR	SNMPLIB	6	Info	1452	03.03.2009			<input type="checkbox"/>	SAR	UCLIB_3-20000972.SAR	Unicode Libraries.	3	Info	8630	11.04.2007			<input type="checkbox"/>	SAR	VSCAN RFC 49-20000972.SAR	VSCAN RFC	49	Info	416	10.04.2006		
#Database independent																																																																																																																																																																																																																	
<input type="checkbox"/>	SAR	SAPEXE_146-20000972.SAR	Kernel Part I (for Basis 7.00)	146	Info	173163	18.03.2008																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_159-20000972.SAR	Kernel Part I (for Basis 7.00)	159	Info	175852	01.07.2008																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_175-20000972.SAR	Kernel Part I (for Basis 7.00)	175	Info	177545	15.10.2008																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_185-20000972.SAR	Kernel Part I (for Basis 7.00)	185	Info	178724	07.01.2009																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_201-20000972.SAR	Kernel Part I (for Basis 7.00)	201	Info	180756	03.06.2009																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_221-20000972.SAR	Kernel Part I (for Basis 7.00)	221	Info	179504	25.08.2009																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_236-20000972.SAR	Kernel Part I (for Basis 7.00)	236	Info	181711	25.01.2010																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_254-20000972.SAR	Kernel Part I (for Basis 7.00)	254	Info	181244	05.07.2010																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_278-20000972.SAR	Kernel Part I (for Basis 7.00)	278	Info	184280	13.12.2010																																																																																																																																																																																																										
<input checked="" type="checkbox"/>	SAR	SAPEXE_291-20000972.SAR	Kernel Part I (for Basis 7.00)	291	Info	185334	12.05.2011																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAPEXE_310-20000972.SAR	Kernel Part I (for Basis 7.00)	310	Info	187962	05.08.2011																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAP32EE_53-20000972.SAR	SAP32EE	53	Info	53617	10.09.2009																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAP32EE_60-20000972.SAR	SAP32EE	60	Info	55014	02.07.2010																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAP32EE_62-20000972.SAR	SAP32EE	62	Info	55331	24.08.2010																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SAP32EE_65-20000972.SAR	SAP32EE	65	Info	56003	06.04.2011																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SCSCLIENT_5-20000972.SAR	SCSCLIENT	5	Info	42758	12.02.2010																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	SNMPLIB_6-20000972.SAR	SNMPLIB	6	Info	1452	03.03.2009																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	UCLIB_3-20000972.SAR	Unicode Libraries.	3	Info	8630	11.04.2007																																																																																																																																																																																																										
<input type="checkbox"/>	SAR	VSCAN RFC 49-20000972.SAR	VSCAN RFC	49	Info	416	10.04.2006																																																																																																																																																																																																										



Click on the database

Click on Oracle to download the database dependent file

- Browse our Download Catalog
- Database Patches (from other vendors)
- Search for Support Packages and Patches
- SAP Support Packages in Detail
- ▶ SAP Support Package Stacks
- ▶ Archive for Support Packages and Patches

my DOWNLOAD BASKET

Quick Link Information
 Access this topic directly at
<http://service.sap.com/patches>

[Terms of Use](#) | [Copyright](#) | [Privacy](#) | [Imprint](#)

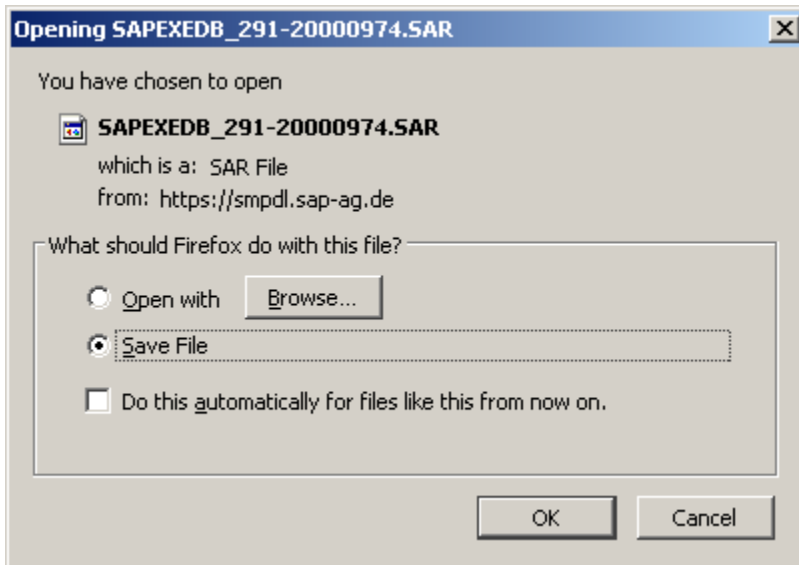
[My Company's Application Components](#) [Complimentary Software](#) [SAP KERNEL 32-BIT UNICODE](#) [SAP KERNEL 7.00 32-BIT UNICODE](#)

SAP KERNEL 7.00 32-BIT UNICODE

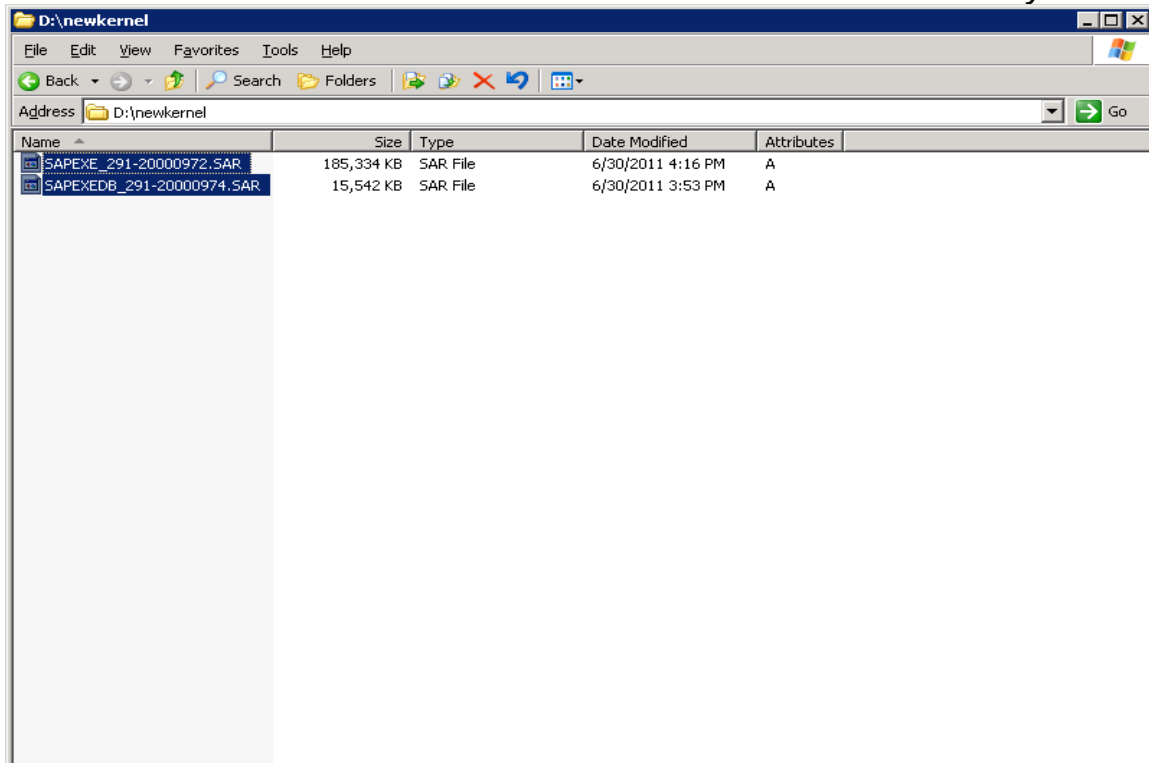
- [Linux on IA32 32bit](#)
- [OS/400](#)
- [Windows Server on IA32 32bit](#)
 - [#Database independent](#)
 - [DB2 UDB](#)
 - [DB2/390](#)
 - [DB2/400](#)
 - [MS SQL SERVER](#)
 - [MaxDB](#)
 - **[ORACLE](#)**
- [z/OS 32bit](#)

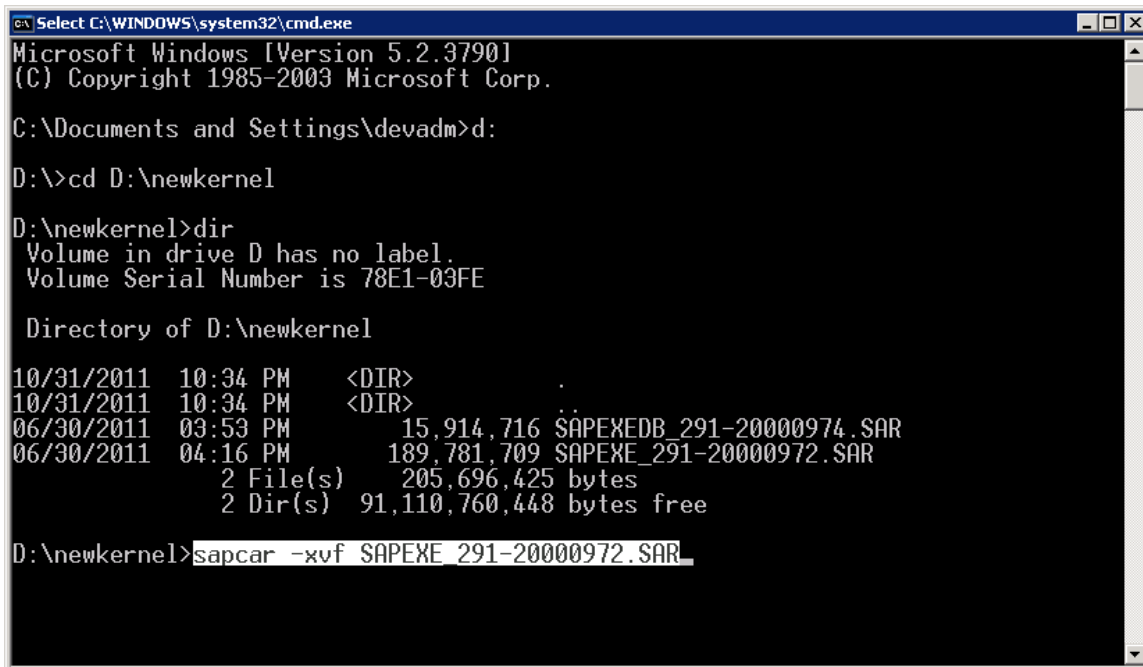
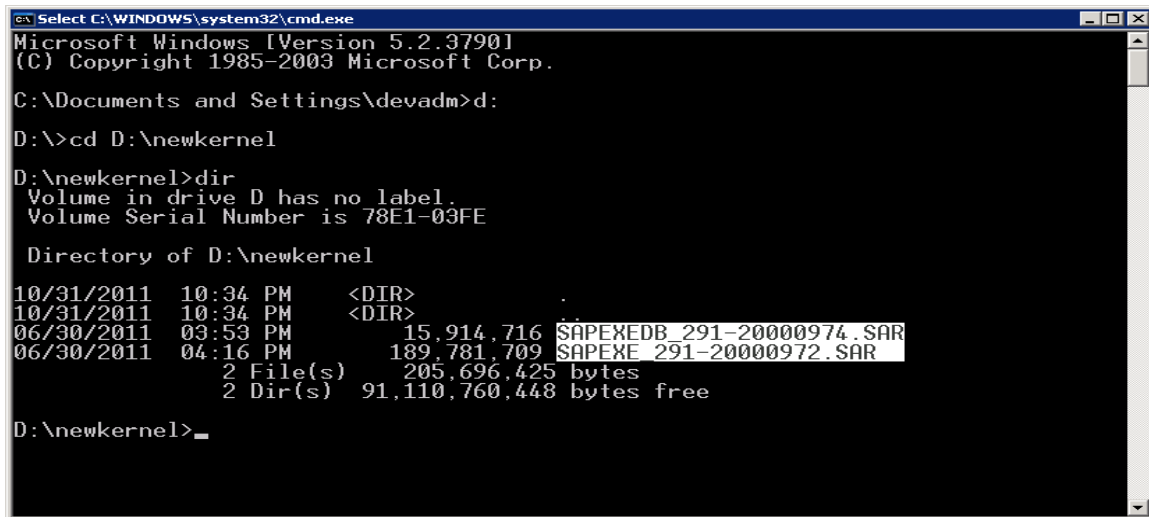
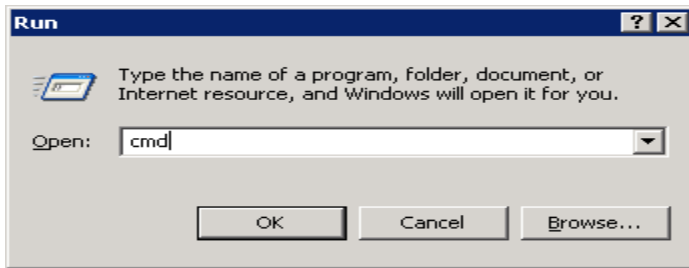
Select the Database Dependent and download the kernel files
 "SAPEXEDB_291-20000972.SAR" file and click on add to Download Basket

Software Download Center	Support Packages and Patches	Installations and Upgrades	BusinessObjects Downloads	Database Patches	Download Basket	Additional Download Info
ORACLE						
<input type="checkbox"/>	SAR	R3szchk_28-20000974.SAR	R3SZCHK		28	Info 878 08.12.2010
<input type="checkbox"/>	SAR	SAPEXEDB_102-20000974.SAR	Kernel Part II (for Basis 7.00)		102	Info 11739 24.05.2007
<input type="checkbox"/>	SAR	SAPEXEDB_114-20000974.SAR	Kernel Part II (for Basis 7.00)		114	Info 11987 20.09.2007
<input type="checkbox"/>	SAR	SAPEXEDB_133-20000974.SAR	Kernel Part II (for Basis 7.00)		133	Info 12367 11.01.2008
<input type="checkbox"/>	SAR	SAPEXEDB_146-20000974.SAR	Kernel Part II (for Basis 7.00)		146	Info 12789 18.03.2008
<input type="checkbox"/>	SAR	SAPEXEDB_159-20000974.SAR	Kernel Part II (for Basis 7.00)		159	Info 13128 02.07.2008
<input type="checkbox"/>	SAR	SAPEXEDB_175-20000974.SAR	Kernel Part II (for Basis 7.00)		175	Info 13462 15.10.2008
<input type="checkbox"/>	SAR	SAPEXEDB_185-20000974.SAR	Kernel Part II (for Basis 7.00)		185	Info 13696 07.01.2009
<input type="checkbox"/>	SAR	SAPEXEDB_201-20000974.SAR	Kernel Part II (for Basis 7.00)		201	Info 14041 03.06.2009
<input type="checkbox"/>	SAR	SAPEXEDB_221-20000974.SAR	Kernel Part II (for Basis 7.00)		221	Info 14414 25.08.2009
<input type="checkbox"/>	SAR	SAPEXEDB_236-20000974.SAR	Kernel Part II (for Basis 7.00)		236	Info 14662 25.01.2010
<input type="checkbox"/>	SAR	SAPEXEDB_254-20000974.SAR	Kernel Part II (for Basis 7.00)		254	Info 14892 05.07.2010
<input type="checkbox"/>	SAR	SAPEXEDB_278-20000974.SAR	Kernel Part II (for Basis 7.00)		278	Info 15357 13.12.2010
<input checked="" type="checkbox"/>	SAR	SAPEXEDB_291-20000974.SAR	Kernel Part II (for Basis 7.00)		291	Info 15542 12.05.2011
<input type="checkbox"/>	SAR	SAPEXEDB_310-20000974.SAR	Kernel Part II (for Basis 7.00)		310	Info 16060 05.08.2011
<input type="checkbox"/>	SAR	lib_dbsl_324-20000974.sar	Database Library		324	Info 1179 21.10.2011



After Successfully Downloading the kernel files Uncar the kernel files
5. Uncar the Executables into kernel with New kernel Directory

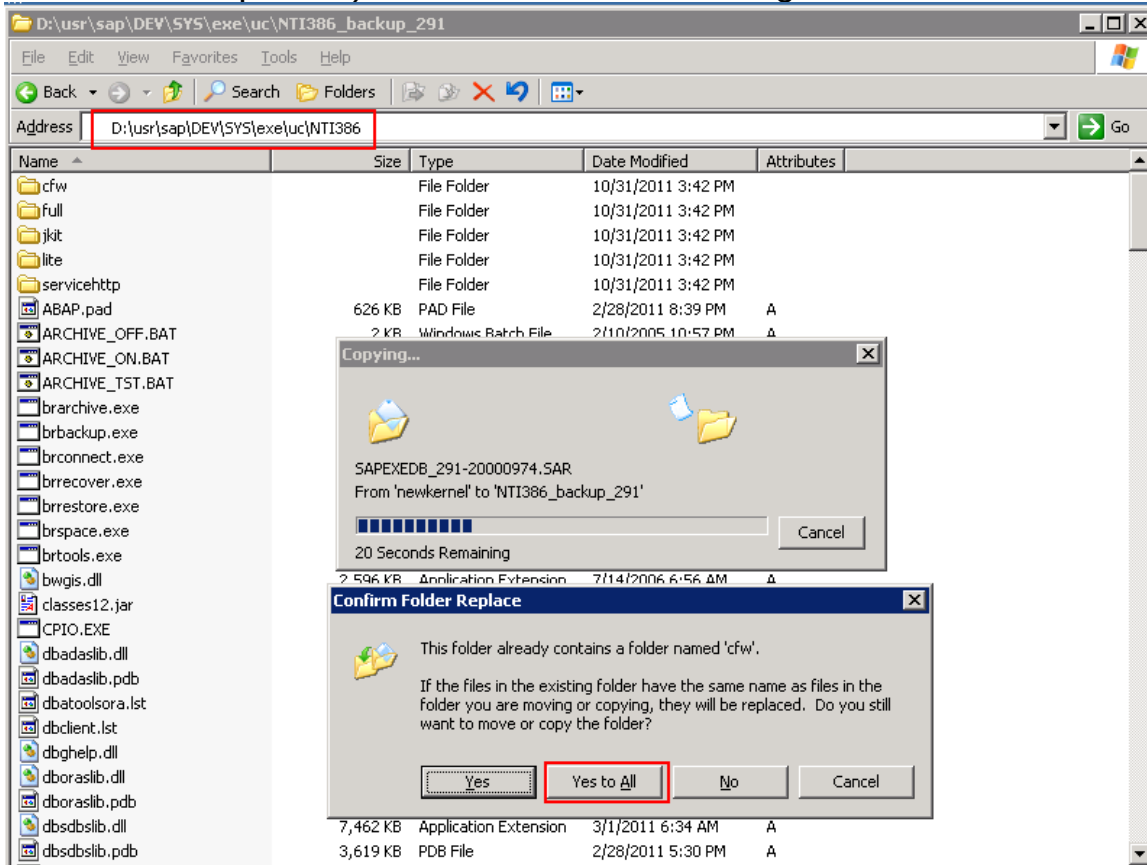




```
C:\WINDOWS\system32\cmd.exe
x servicehttp/sapmc
x servicehttp/sapmc/frog.jar
x servicehttp/sapmc/sapmc.html
x servicehttp/sapmc/sapmc.jar
x servicehttp/sapmc/sapmc.jnlp
x servicehttp/sapmc/sapmcsoap.jar
x servicehttp/sapmc/sapmcswing.jar
x servicehttp/sapmc/soapclient.jar
x sldreg.exe
x sldreglib.dll
x sldreglib.lib
x starttrfc.exe
x startsap.exe
x stopsap.exe
x tp.exe
x tp.pdb
x UNCOMPRESS.EXE
x vscan_rfc.exe
x wdispadmin.SAR
x wdispmon.exe
x webdispinst.lst
x xml63d.dll
SAPCAR: 815 file(s) extracted
D:\newkernel>
```

```
Select C:\WINDOWS\system32\cmd.exe
D:\newkernel>sapcar -xvf SAPEXEDB_291-20000974.SAR
SAPCAR: processing archive SAPEXEDB_291-20000974.SAR (version 2.01)
x ARCHIVE_OFF.BAT
x ARCHIVE_ON.BAT
x ARCHIVE_TST.BAT
x brarchive.exe
x brbackup.exe
x brconnect.exe
x brrecover.exe
x brrestore.exe
x brspace.exe
x brtools.exe
x CPIO.EXE
x dbadaslib.dll
x dbadaslib.pdb
x dboraslib.dll
x dboraslib.pdb
x dbsdbslib.dll
x dbsdbslib.pdb
x DD.EXE
x initSID.sap
x INSTANCEDB.LST
x libsbt.dll
x MKSZIP.EXE
x MT.EXE
x R3ldctl.exe
x R3load.exe
x R3loadora.pdb
x R3szchk.exe
x sapconn_role.sql
x sapdba_role.sql
x sapdbmrfc.exe
x sapmanifestdb.mf
x strdbs.cmd
x UNCOMPRESS.EXE
SAPCAR: 33 file(s) extracted
```

6. Copy the executables into existing kernel (because only few of them are updated) i.e., overwrite the existing kernel executables.



7. Restart the services and SAP system i.e., start all the services that is mentioned in step1.
8. Check the kernel version by executing command 'disp+work' in command window/login in to system and check in system→status

cmd→disp+work

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
C:\Documents and Settings\devadm>disp+work

-----
disp+work information

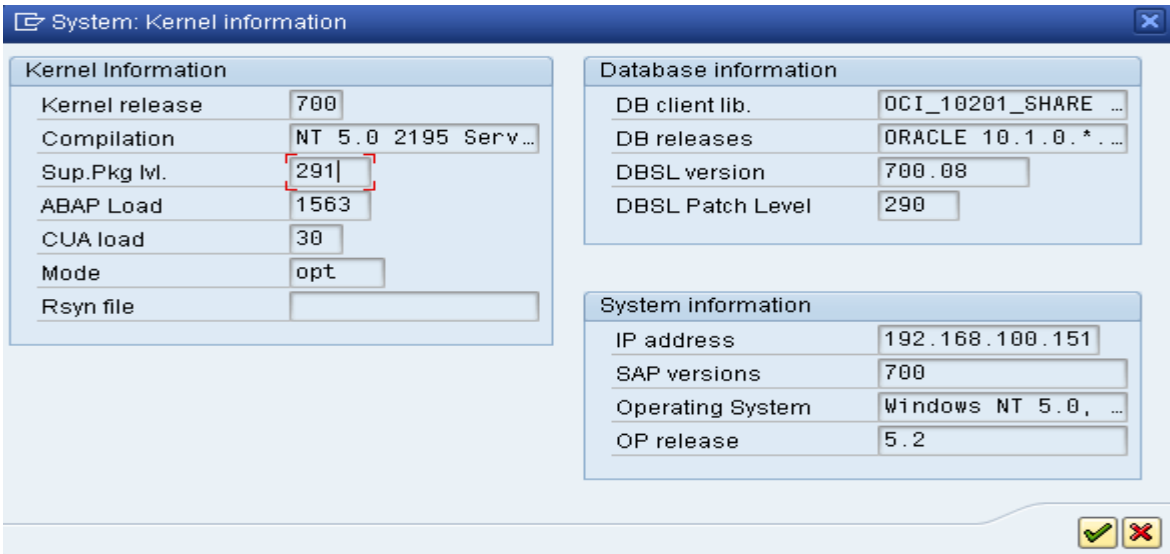
kernel release                700
kernel make variant          700_REL
compiled on                   NT 5.0 2195 Service Pack 4 x86 MS UC++ 13.1
TI386
compilation mode              UNICODE
compile time                  Feb 28 2011 16:38:08
update level                  0
patch number                   291
source id                      0.291

-----
supported environment

database <SAP, table SUERS>  700

operating system
Windows NT 5.0
Windows NT 5.1
Windows NT 5.2
Windows NT 6.0
Windows NT 6.1

C:\Documents and Settings\devadm>_
  
```



The screenshot shows the 'System: Kernel information' dialog box with the following data:

Kernel Information		Database information	
Kernel release	700	DB client lib.	OCI_10201_SHARE ...
Compilation	NT 5.0 2195 Serv...	DB releases	ORACLE 10.1.0.* ...
Sup.Pkg lvl.	291	DBSL version	700.08
ABAP Load	1563	DBSL Patch Level	290
CUA load	30		
Mode	opt	System information	
Rsyn file		IP address	192.168.100.151
		SAP versions	700
		Operating System	Windows NT 5.0, ...
		OP release	5.2

Kernel Upgrade is Done Successfully.

Related Content:

www.help.sap.com

www.sdn.sap.com/irj/sdn/index.

Disclaimer and Liability Notice:

WILLSYS will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

WILLSYS offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by WILLSYS. You agree that you will not hold, or seek to hold, WILLSYS responsible or liable with respect to the content of this document.