

Memory	128 MB (JAVA VM 256MB)
Swap Space	RAM 3 가 (1GB) 2 2.2 2GB
Disk Drives	1 4 Oracle Software , 3 DB 가
CD-ROM Drive	LINUX CD-ROM

	Oracle8i Enterprise Edition	Oracle8i Client	Programmer/2000
Minimal	693MB	N/A	N/A
Typical	765 MB	216 MB	177 MB
Custom	Minimal		

:

OS	Linux kernel 2.2
OS Patches	가
System Libraries	GNU C Tools egcs-1.1.2 (GLIBC package v.2.1)
Windows Manager	windows manager 가 , : fvmw (Motif v.1.2)

: Release 8.1.5 Character Mode Installation .

	Netscape Navigator 4.0 . MS Internet Explorer 4.0
--	---

Oracle Software Packager 1.6.0.7	JDK 1.1.6
PRO*C/C++	egcs-1.1.2
Oracle Intelligent Agent	TCL 7.5 (ftp://ftp.scriptics.com).
Oracle JDBC drivers	JDK 1.1.6 v5 (http://www.blackdown.org)

(*) : Net8 가 .

가	가 init<sid>.ora PROCESSES
	NFS(UDP ext2)
	, 2GB

ORACLE_HOME	Oracle8i Release 8.1.5 ORACLE_HOME ORACLE_HOME
Java Runtime Environment (JRE)	JRE 1.1.6 v5 가 http://www.blackdown.org
Character Mode	, response file non-interactive(silent) X-windows X-terminal emulator
Optimal Flexible Architecture (OFA)	

Oracle Partitioning	
JAVA Runtime Environment 1.1	JRE 1.1.6 v5 JAVA . JAVA VM, JAVA Core files
Oracle Database Configuration Assistant	
Oracle JServer and Oracle JServer Enterprise Edition	Jserver JVM, CORBA ORB, JDBC EJB
Oracle Universal Installer	JAVA Application
Oracle InterMedia	
Oracle InterMedia Locator Service	(spatial)
Oracle JDBC Drivers	JAVA Oracle7,Oracle8 Oracle8i
Oracle SQLJ	JAVA SQL

Net8	Oracle Net8 Assistant, Oracle Net8 Client, Oracle Net8 Server
Oracle Spatial	Spatial Cartridge.
Oracle Time Series	Time Series Cartridge. Object data type timestamped data
Oracle Visual Information Retrieval	Visual Information Retrieval Cartridge. Image data
Oracle Programmer	Programmer2000. Precompilers, networking services, Client Software

Oracle interMedia Audio	Oracle Audio Cartridge. Digital audio data
Oracle interMedia Image	Oracle Image Cartridge. Image data , .
Oracle interMedia Text	Oracle Context Cartridge. Text data , .
Oracle interMedia Video	Oarcle Video Cartridge. Video data , .

root

Linux

8i	SGA(System Global Area)	Linux	IPC(Interprocess Communication)
	. SGA		가
	가		

1. ipcs

2.

/usr/src/linux/include/asm/shmparam.h

/usr/src/linux/include/linux/sem.h

□ (SHMMAX)

□ (SHMMIN)

□ (SHMMNI)

□ 가 (SHMSEG)

□ (SHMMSL)

□ (SHMMNS)

□ semop call (SEMOPM)

□ (SEMVMX)

가

SHMMAX * SHMSEG

initSID.ora

initSID.ora

가

가

SHMMAX	4294967295	(, 4GB)
SHMMIN	1	()
SHMMNI	100	
SHMSEG	10	
SEMMNS	200	
SEMMNI	100	. SEMMNI
SEMMSL	PROCESSES+10.	. initsid.ora PROCESSES+10 8.1.5 PROCESSES 50 .
SEMOPM	100	semop call
SEMVMX	32767.	

, Linux

8i
SHMMAX 4GB RedHat
16MB

8i

Oracle 8i

4

3

./ /u01, /u02, /u03, /u04 ,

3

가

가

가 가

Database Administrator LINUX

LINUX groupadd dba .

```
[root /]# groupadd -g 5000 dba
```

/etc/group
dba 가 .

LINUX useradd oracle .

	가 oracle .
ID	DBA
	.ORACLE_HOME
	/bin/bash, /bin/sh, /bin/csh, /bin/ksh bash .

LINUX

oracle , /home1/oracle
, bash 가 .
oracle root
oracle .

oracle

가(Permission)

```
umask          OUI(Oracle Universal Installer)가
               ,
               .profile      ..login ,      .bash_profile
oracle         022
               .

umask 022
```

DISPLAY

```
가
IP            X            DISPLAY            가
IP            , X            0
               , “Failed to connect to server”      “Connection refused by server”,      “Can’t open display”
               가            가
               가
```

```
$ DISPLAY=workstation_name:0,0
```

```
$EXPORT DISPLAY
```

```
$ xhost +server_machine_name
```

```
oracle
               .profile      .cshrc            bash
               .bash_profile
```

ORACLE_BASE

```
Flexible Architecture)            . OFA(Optimal
               /software_mount_point/app/oracle      . OFA
               가
```

ORACLE_HOME

```
               . OFA
$ORACLE_BASE/product/release
```

LD_LIBRARY_PATH

```
Shared Library            . LD_LIBRARY_PATH가
$ORACLE_HOME/lib
```

ORACLE_SID

```
Oracle System Identifier(SID)
```

PATH

\$ORACLE_HOME/bin, /bin, /usr/bin

NLS_LANG

Oracle

ORA_NLS33

Oracle (US7ASCII) .OUI DB
\$ORACLE_HOME/ocommon/nls/admin/data ..

.bash_profile

```
## Environment variables for Oracle
export ORACLE_HOME=/home1/ora815
export NLS_LANG=AMERICAN_AMERICA.KO16KSC5601;
export PATH=$PATH:$ORACLE_HOME/bin
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$ORACLE_HOME/lib
export ORACLE_SID=ORCL
```

JDBC

CLASSPATH

JDK 1.1

```
export CLASSPATH=$CLASSPATH:$ORACLE_HOME/jdbc/lib/classes111.zip
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$ORACLE_HOME/jdbc/lib
```

JDK 1.0

```
export CLASSPATH=$CLASSPATH:$ORACLE_HOME/jdbc/lib/classes102.zip
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$ORACLE_HOME/jdbc/lib
```

OUI(Oracle Universal Installer)

. OUI

- JRE1.1.6 v5
- CD-ROM
- OUI

JRE 1.1.6 v5

<http://www.blackdown.org>

`/usr/local/jre` *installed_path_of_jre/jre_116_v5* (symbolic link)

CD-ROM

Oracle CD-ROM RockRidge . CD-ROM
 CD-ROM root
 /cdrom 가 ().

)

```
$ su root
# mount -t iso9660 /dev/cdrom /cdrom
# (mkdir /cdrom) ←
# mount -t iso9660 /dev/cdrom /cdrom
# exit
```

\$

OUI

OUI oracle CD-ROM
 runInstaller .
 logout login .

)

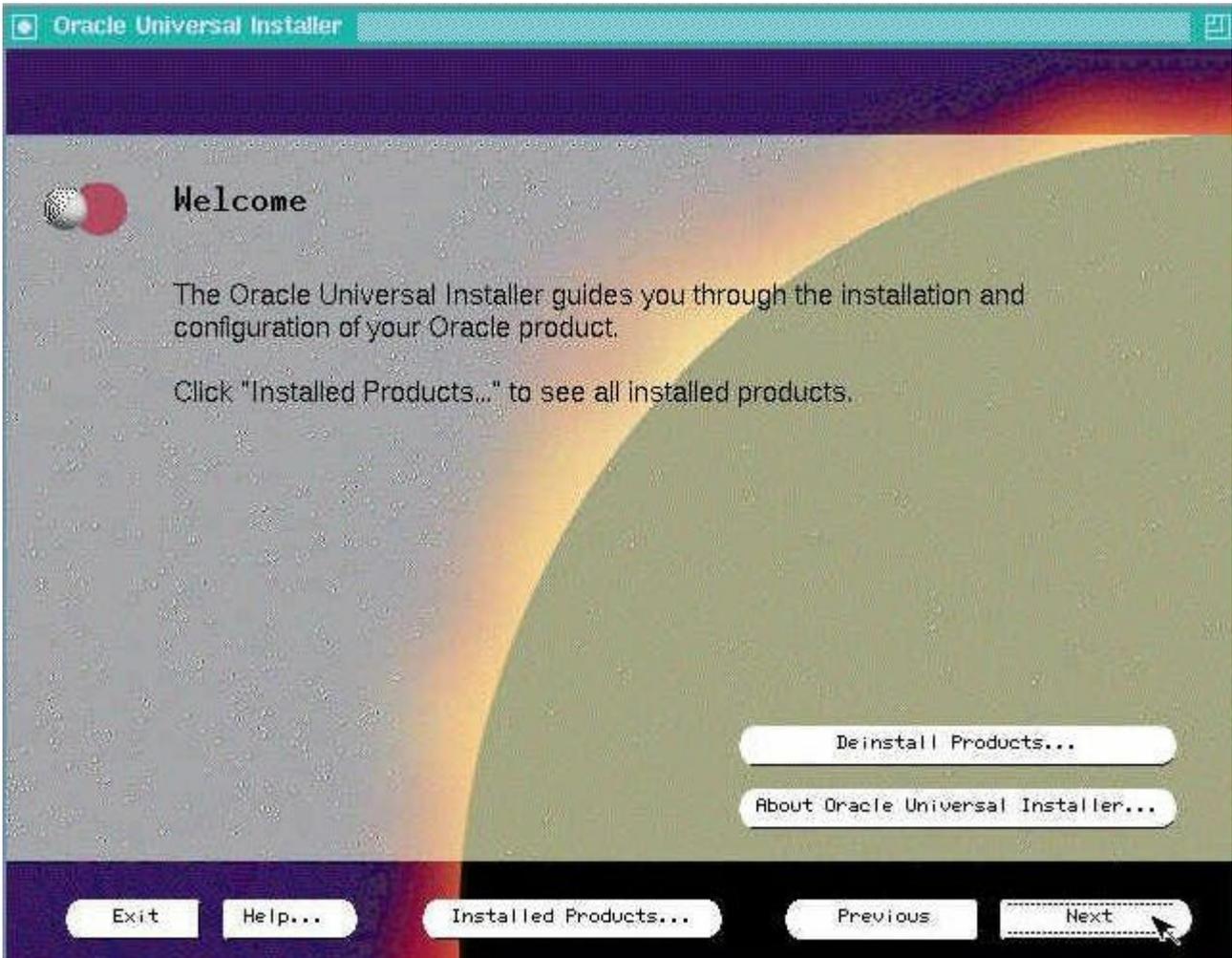
```
$ cd /cdrom
$ ./runInstaller
```

:	root
---	------

OUI

response file . GUI (silent mode)
Command line 가 .

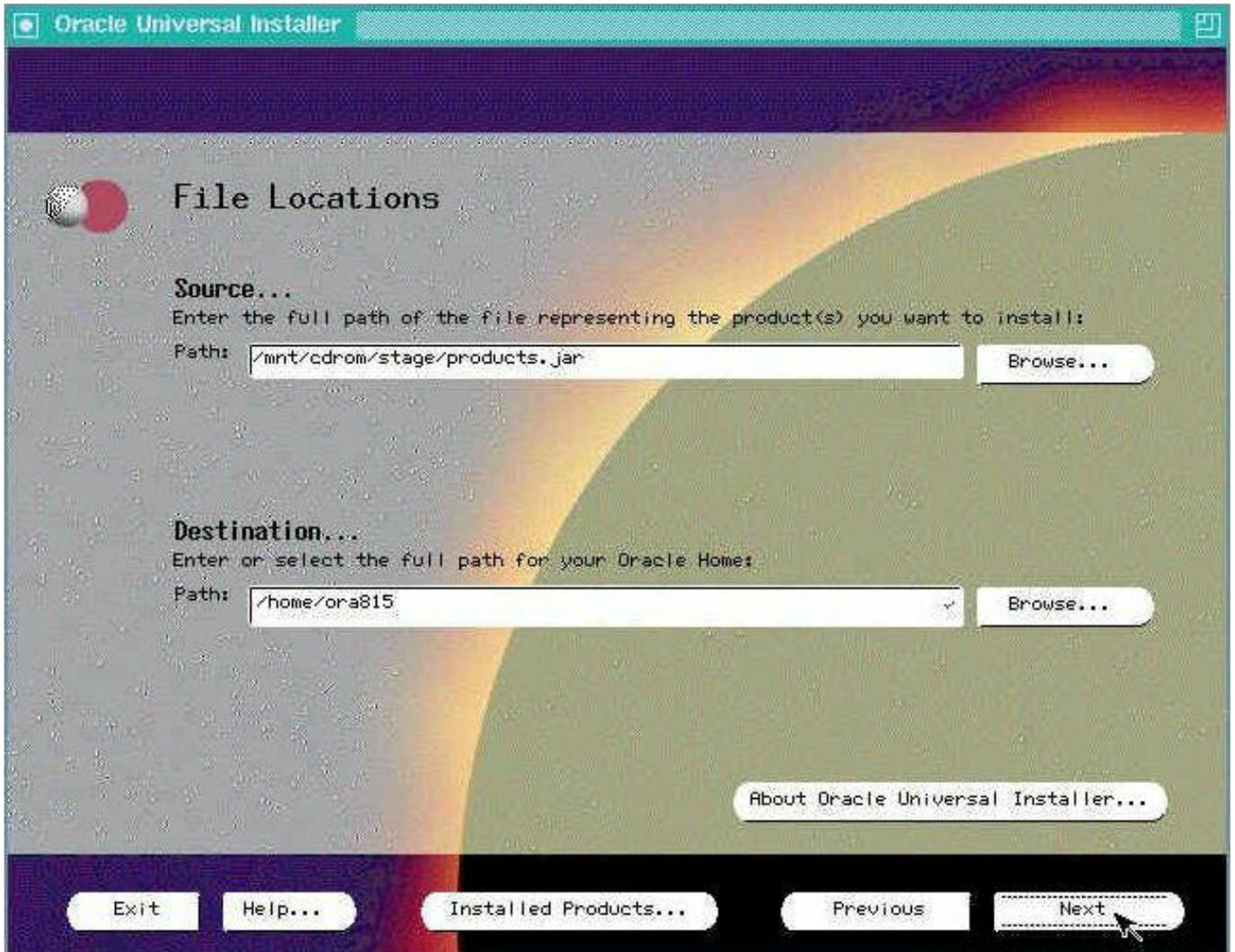
OUI



[1-1]

가 Java-base OUI(Oracle Universal Installer) .
Next . Deinstall Products ...
, Installed Products

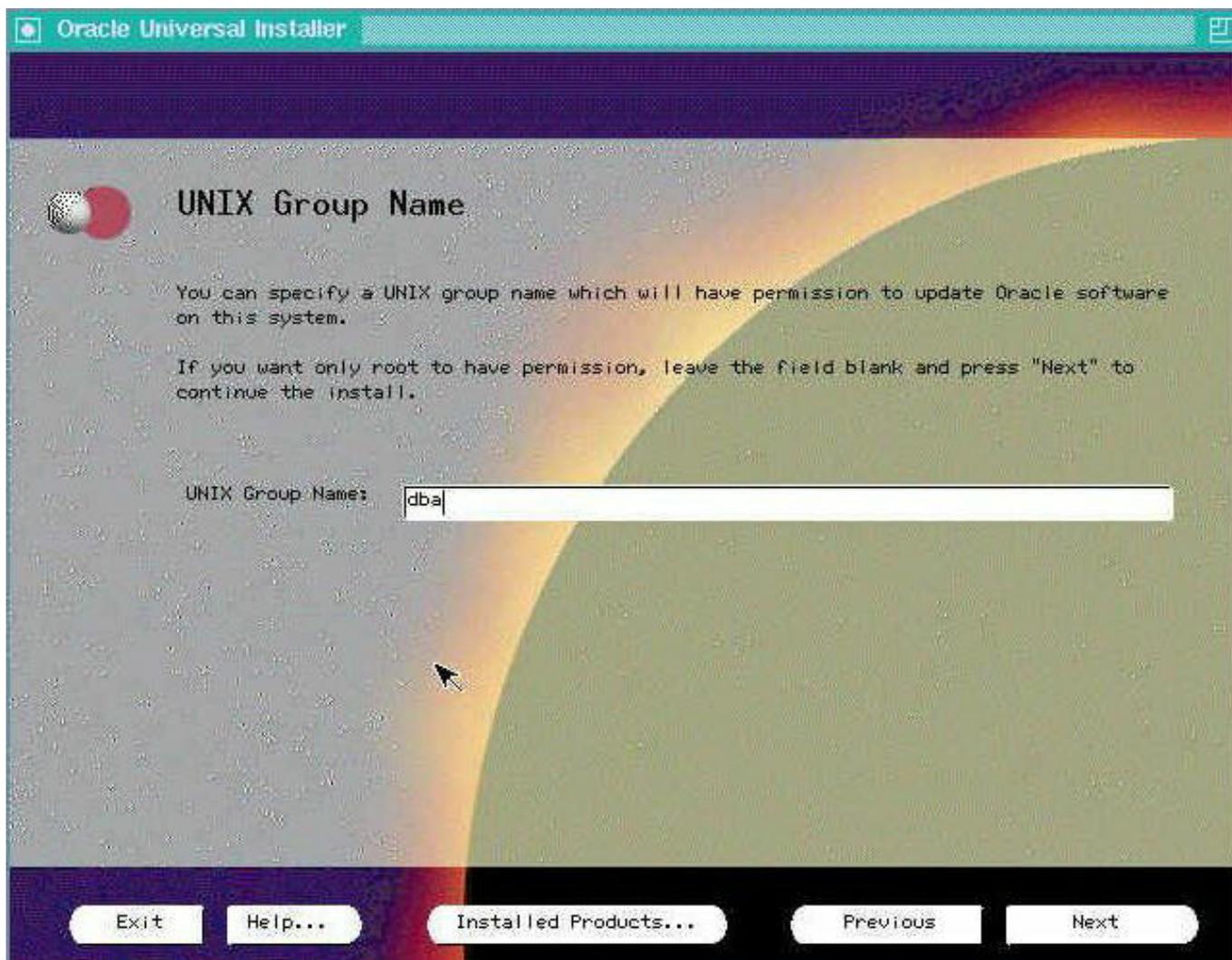
File Location



[1-2]

Next . ORACLE_HOME
Path: ORACLE_BASE . ORACLE_BASE
(:/home/ora815) 가 .

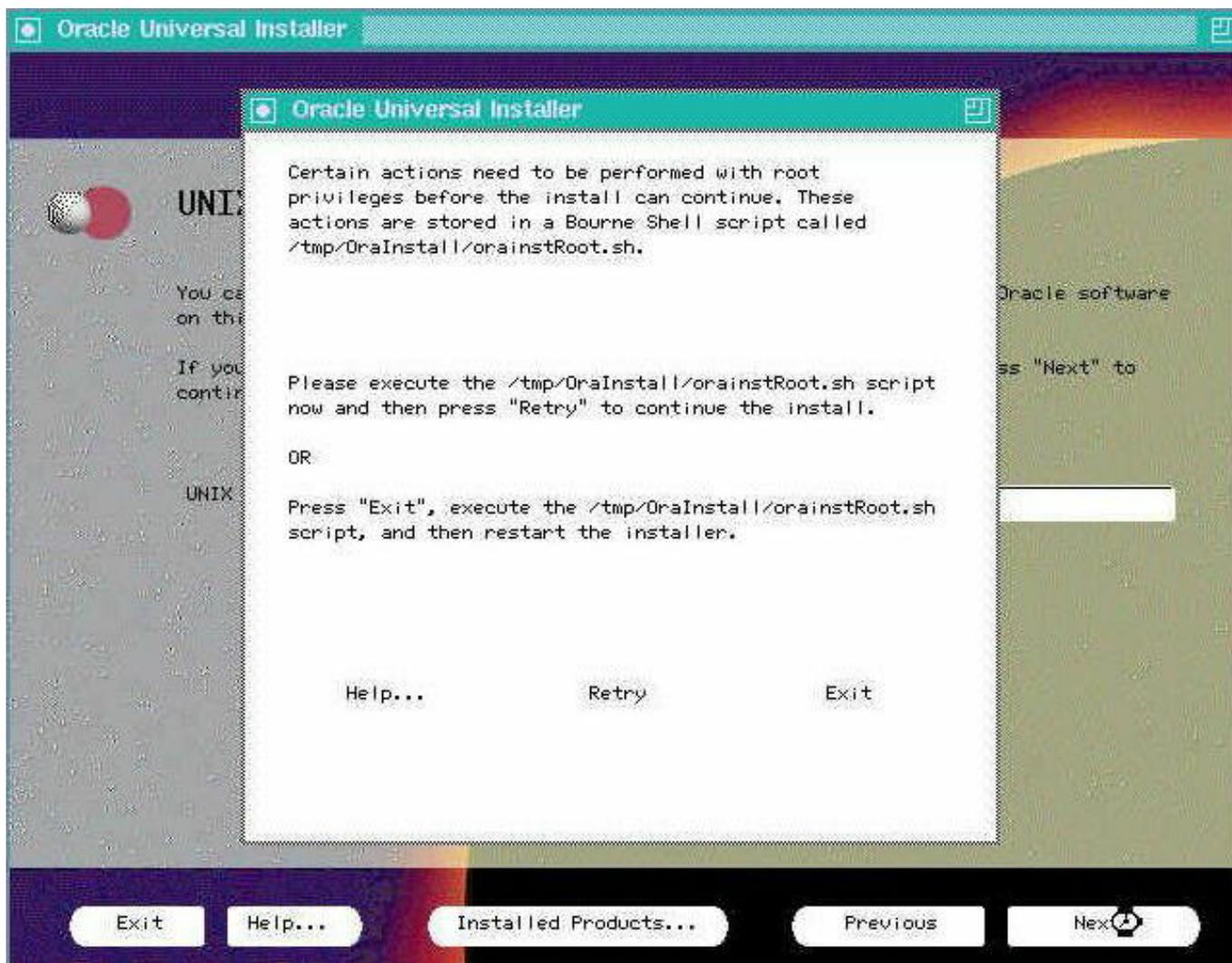
UNIX Group Name



[1-3]

Oracle8i OS Group Name . Oracle dba .

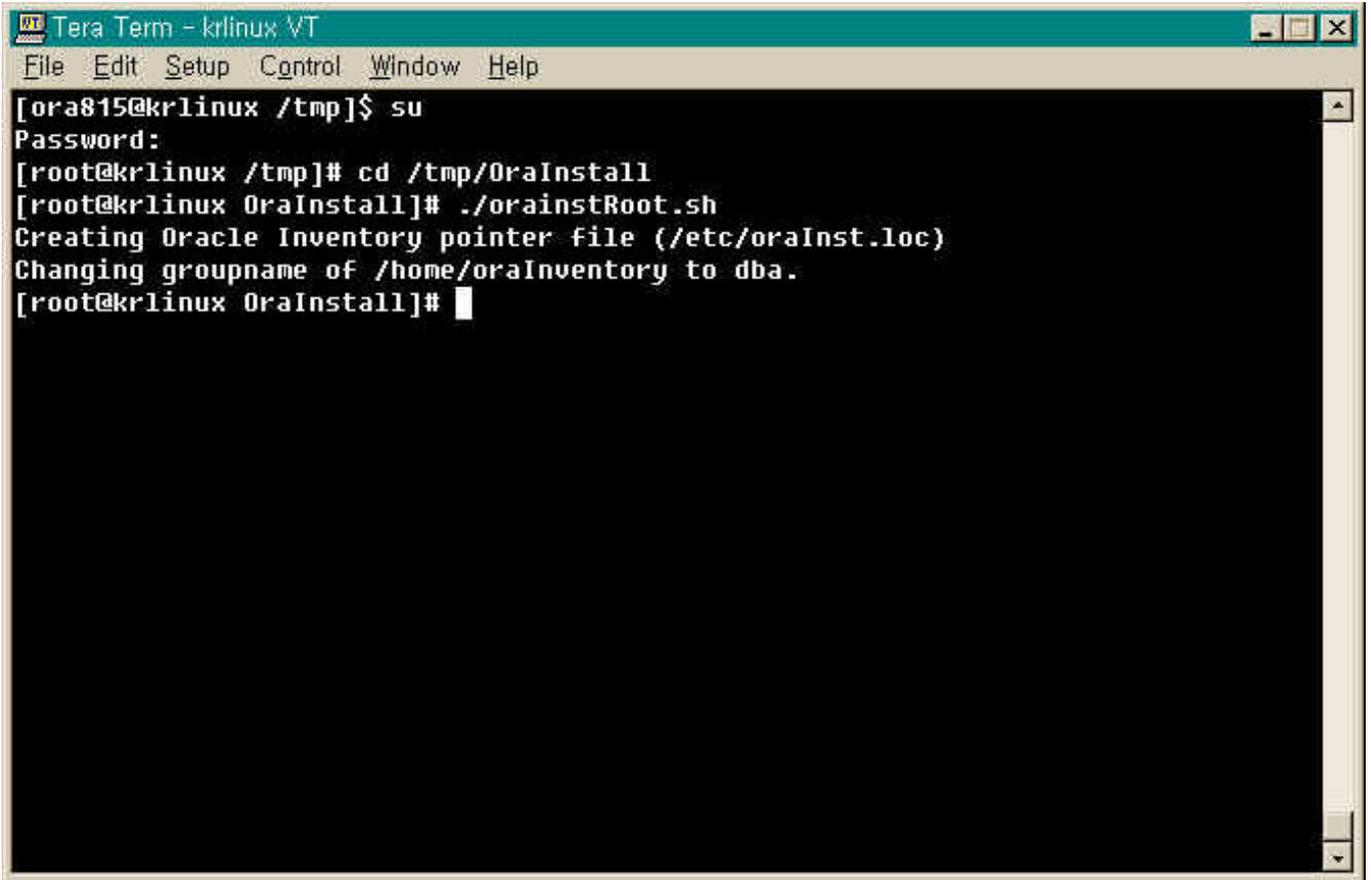
orainstRoot.sh Alert



[1-4 orainstRoot.sh]

Command line root /tmp/OraInstall/orainstRoot.sh Retry

oraInstRoot.sh



```
Tera Term - krlinux VT
File Edit Setup Control Window Help
[ora815@krlinux /tmp]$ su
Password:
[root@krlinux /tmp]# cd /tmp/OraInstall
[root@krlinux OraInstall]# ./oraInstRoot.sh
Creating Oracle Inventory pointer file (/etc/oraInst.loc)
Changing groupname of /home/oraInventory to dba.
[root@krlinux OraInstall]#
```

[1-5 oraInstRoot.sh]

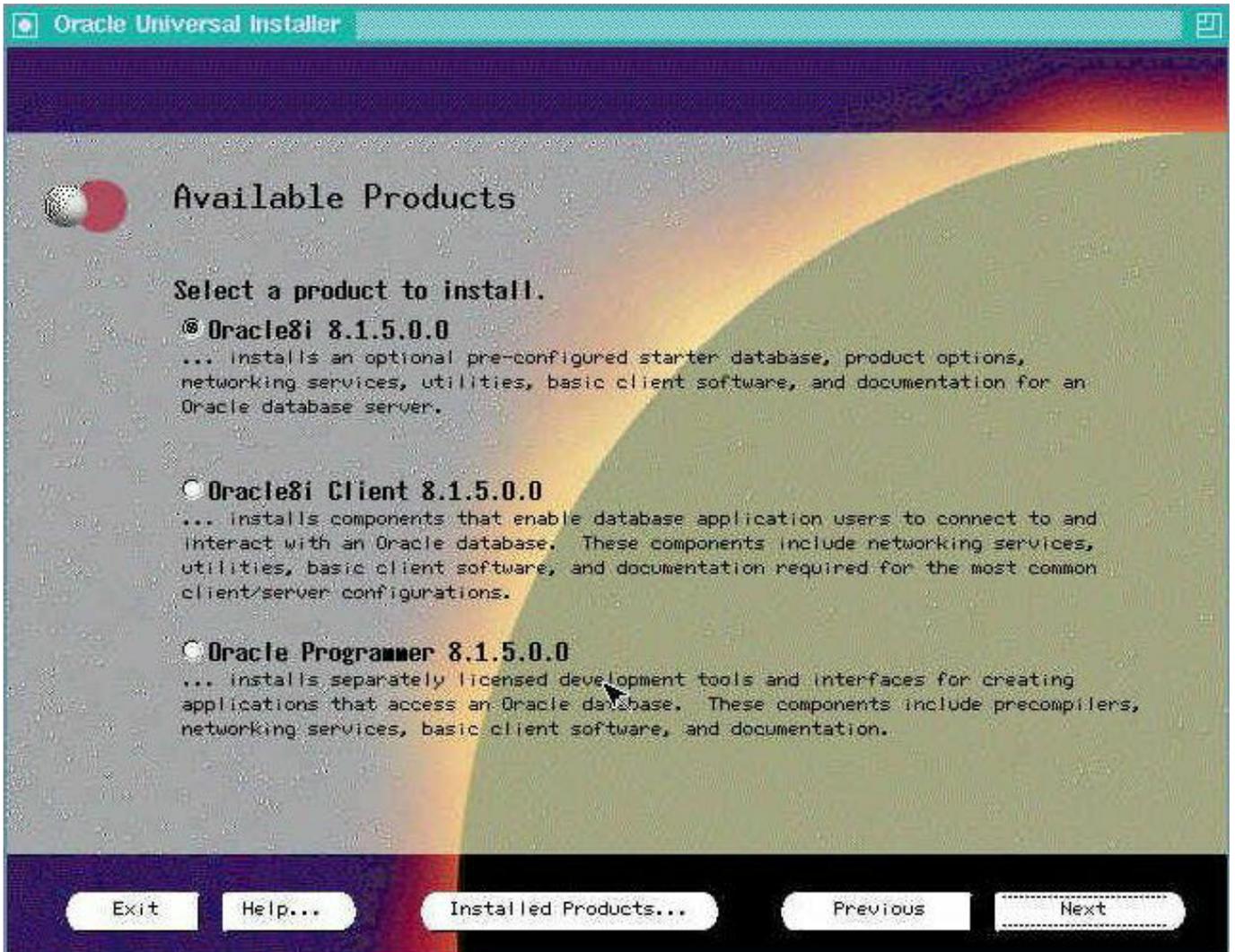
root . Oracle Inventory 가
group dba .



```
Tera Term - krlinux VT
File Edit Setup Control Window Help
inventory_loc=/home/oraInventory
```

[1-6 /etc/oraInst.loc]

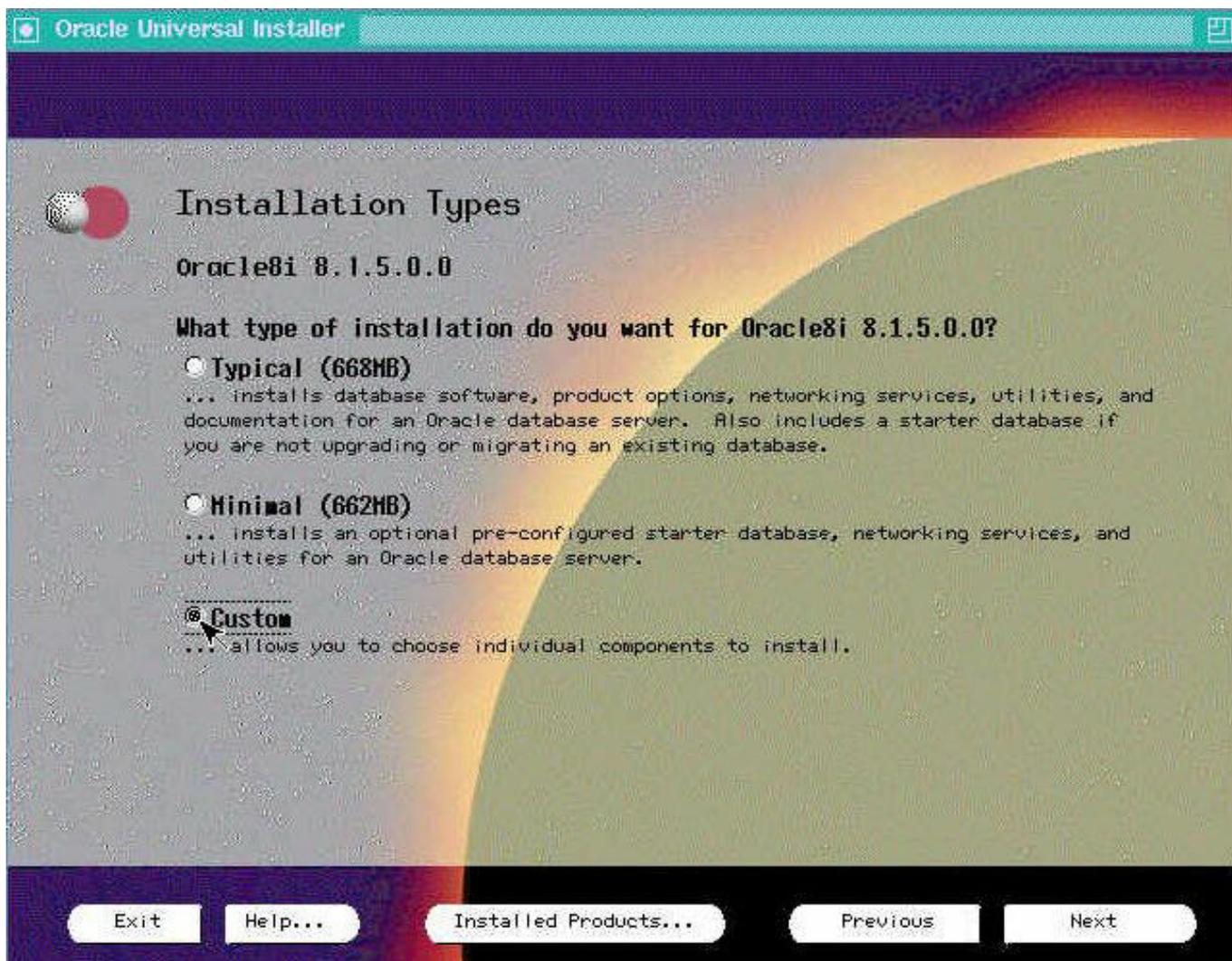
Available Products



[1-7 가]

Oracle8i 8.1.5.0.0 . Client/Server
 Client OUI Oracle8i
 Client . Pro*C Oracle Programmer 8.1.5 .

Installation Types



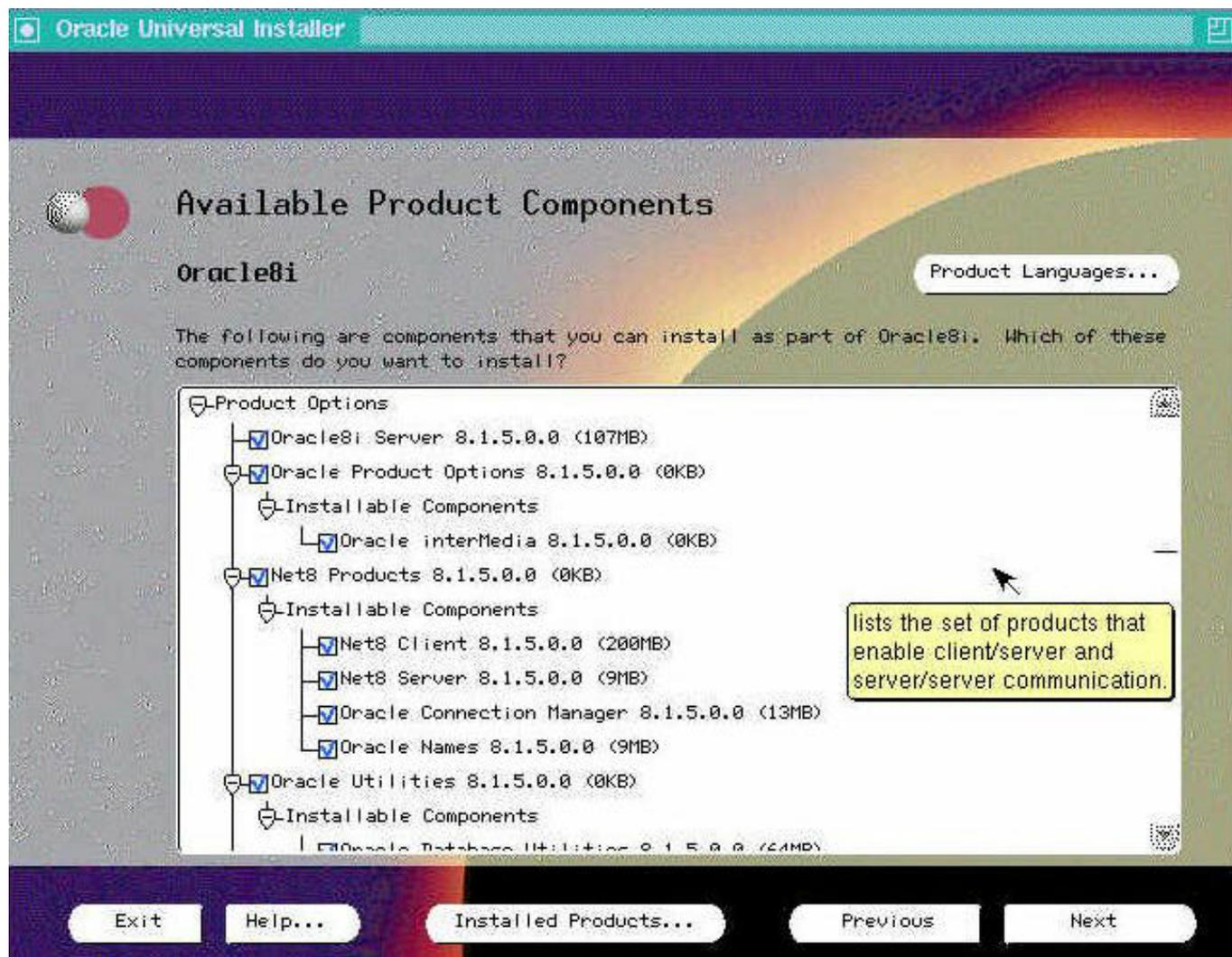
[1-8]

가

Custom

.

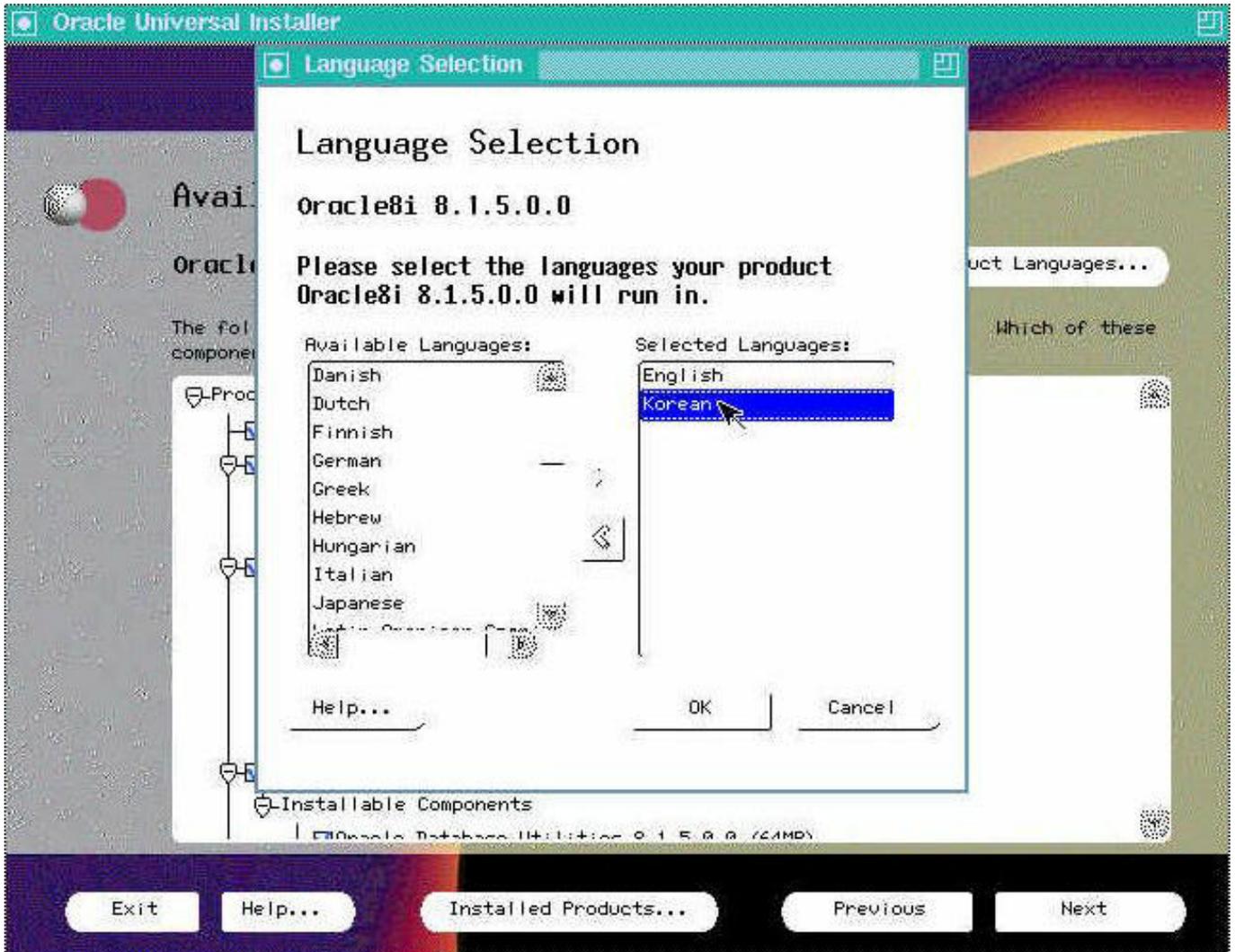
Available Product Components



[1-9 가]

4 . 가 가 가
 가 . Product Languages

Language Selection

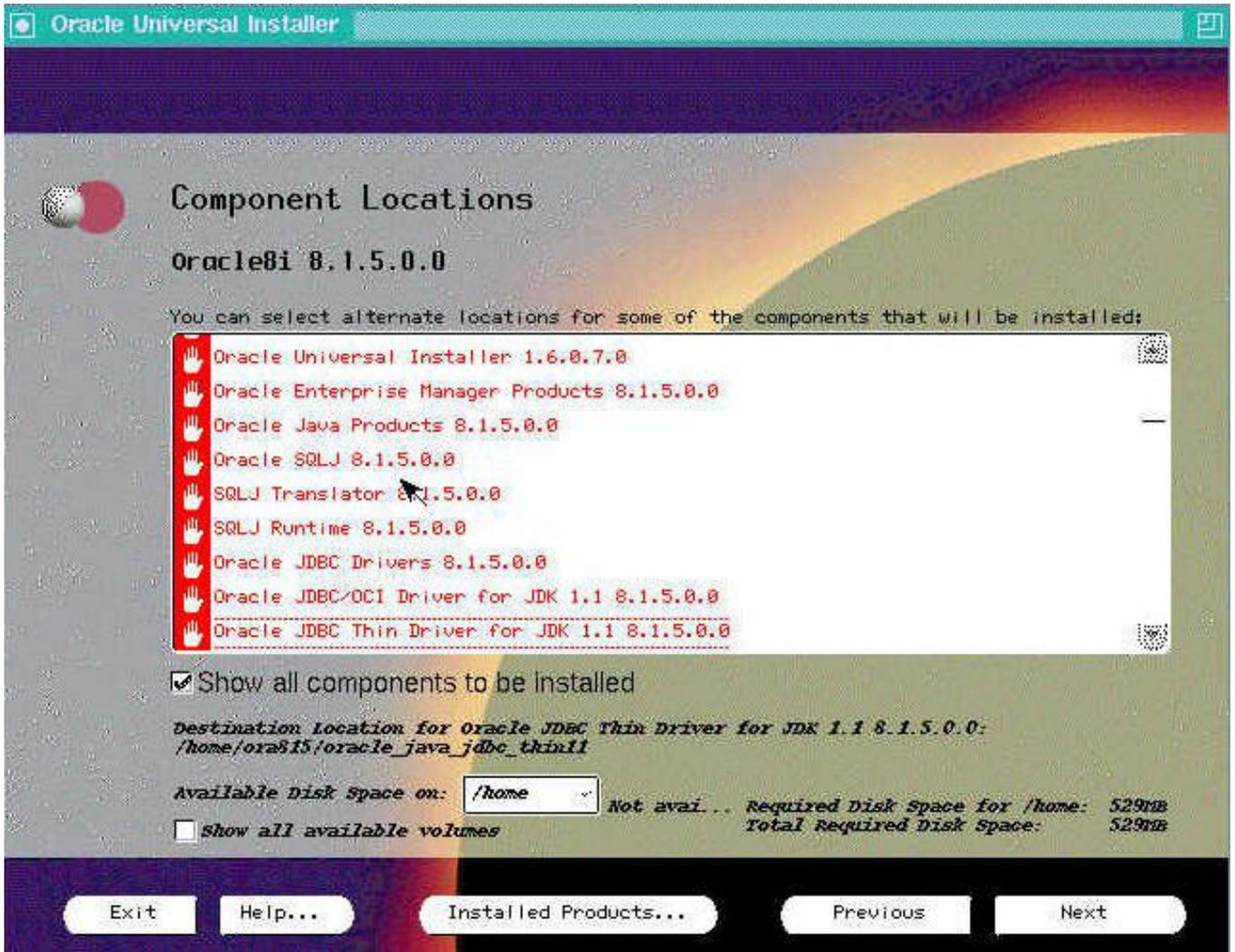


[1-10]

Korean

OK

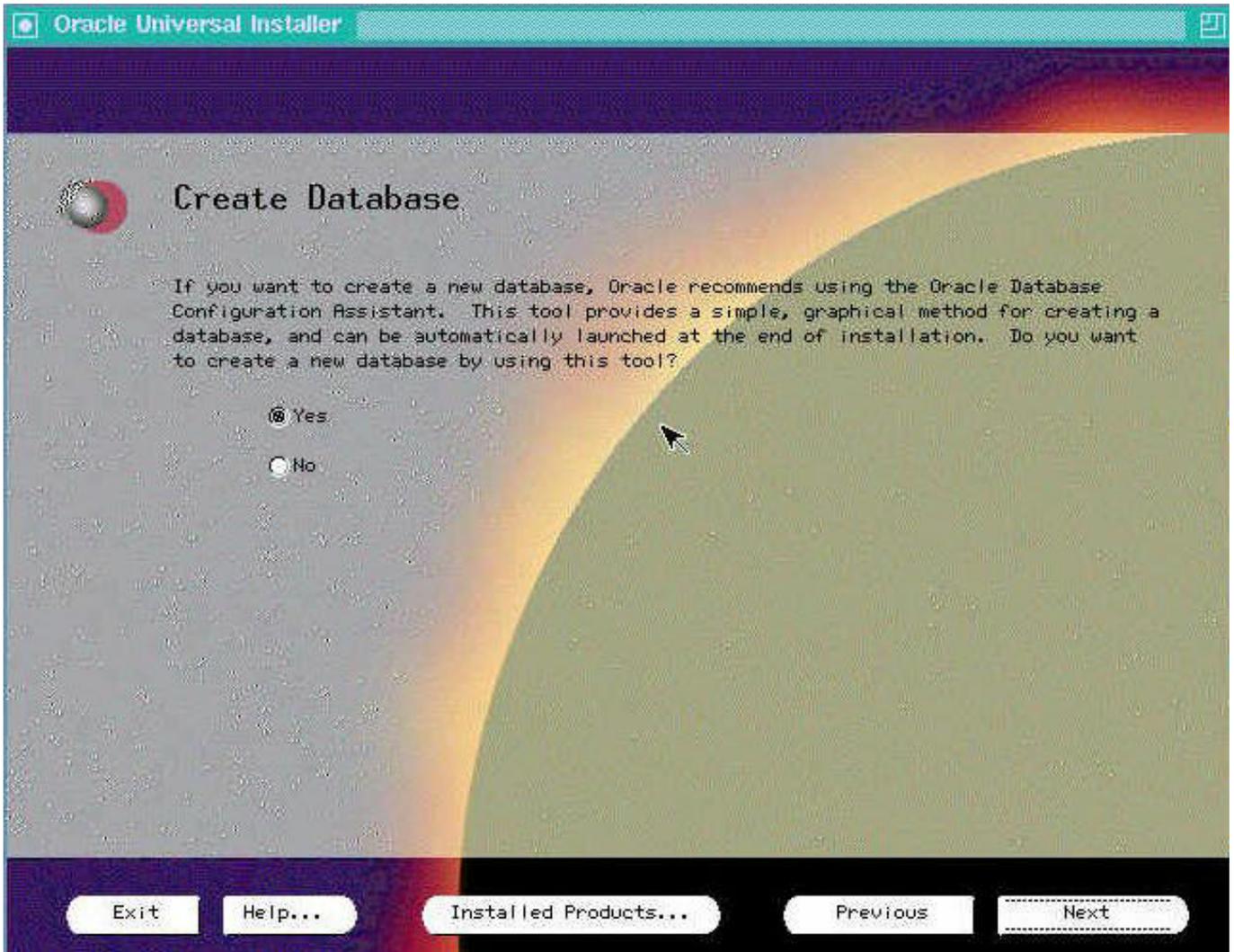
Component Location



[1-11]

가

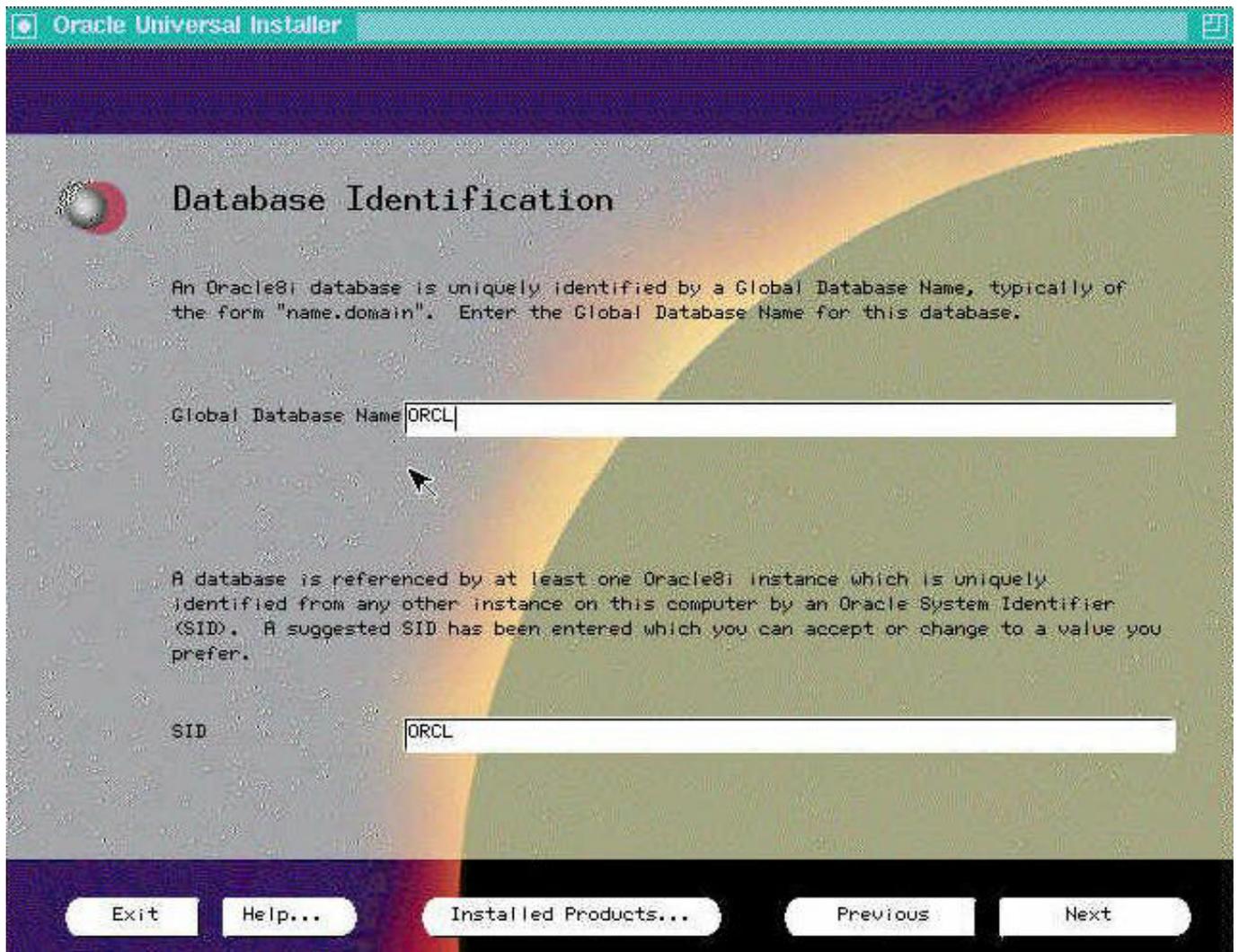
Create Database



[1-12]

“Yes” . “Typical/Minimal” . “Yes” .
Seed Database가 . Database
Configuration Assistant(DBCA) .

Database Identification

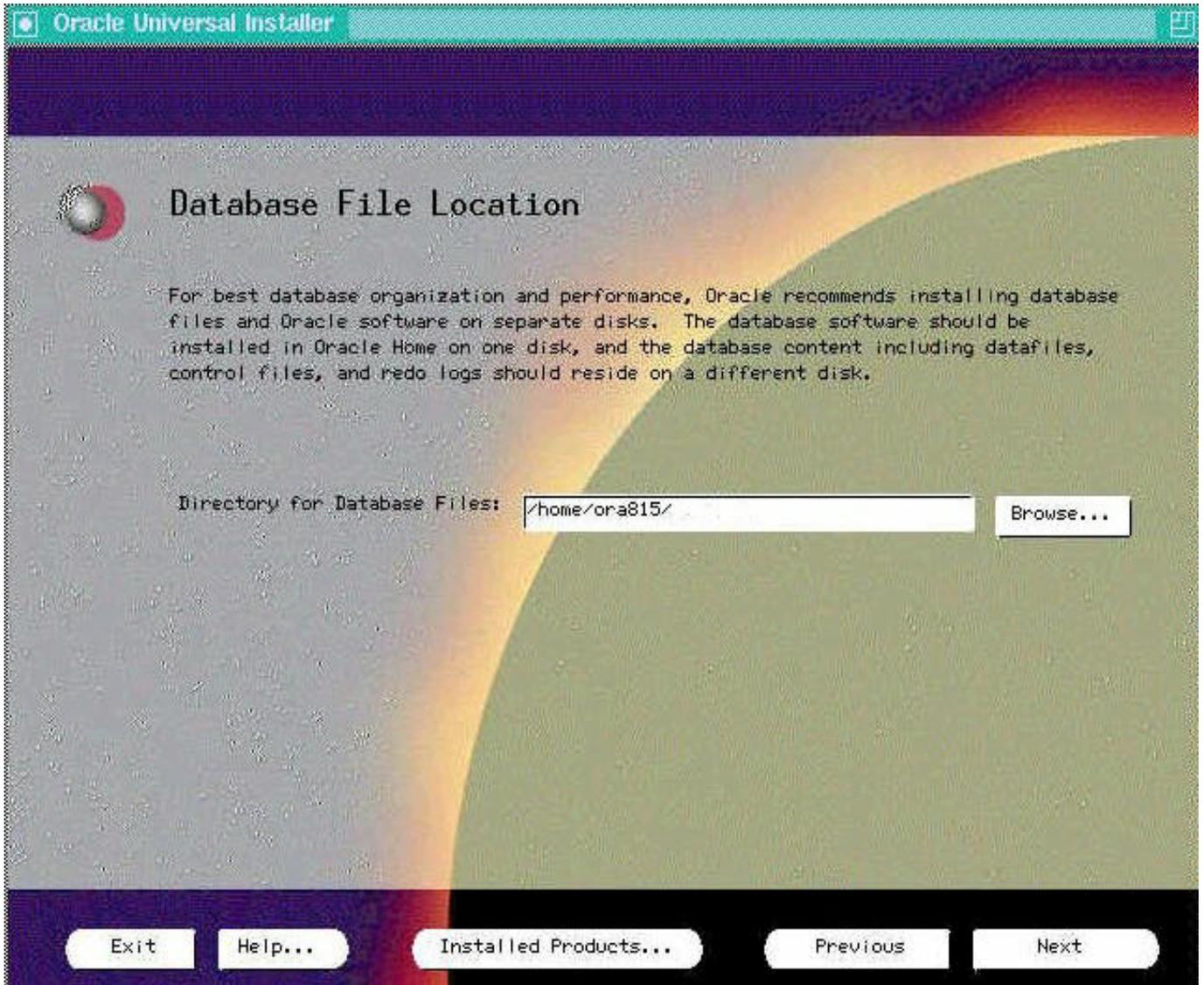


[1-13]

. Global Database Name

, Net8
ORACLE_SID . SID

Database File Location

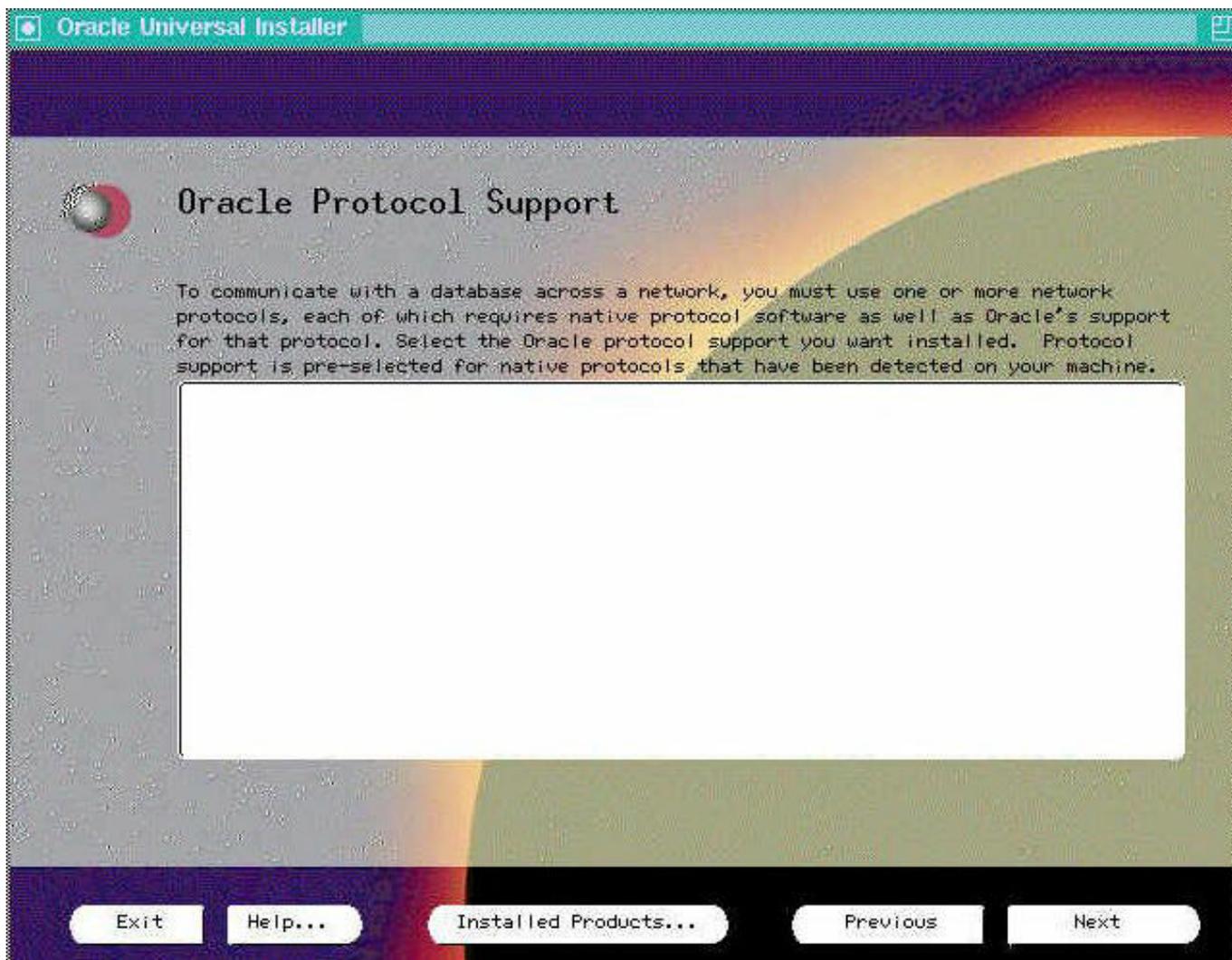


[1-14]

가

oradata

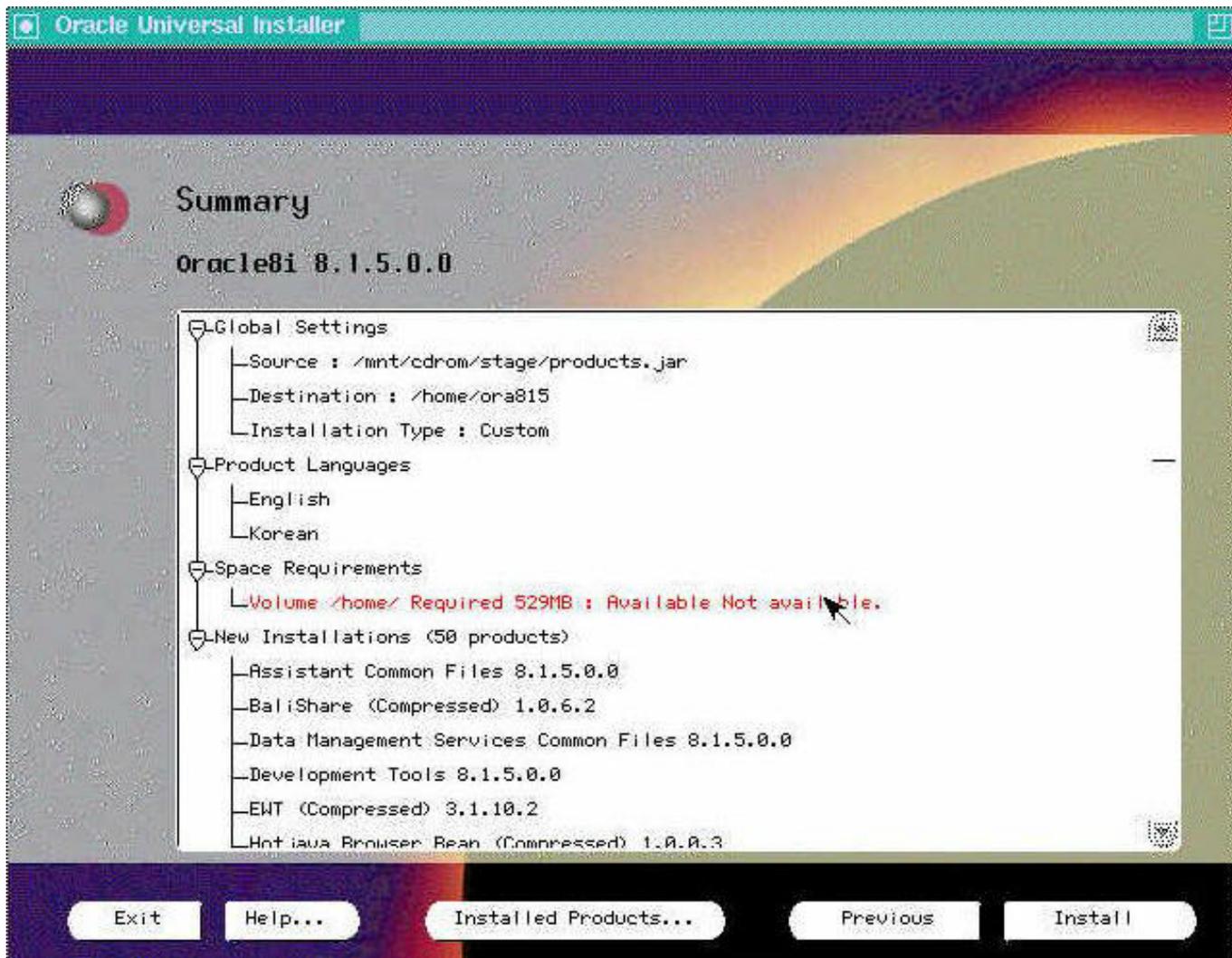
Oracle Protocol support



[1-15]

Next TCP/IP 가

Summary

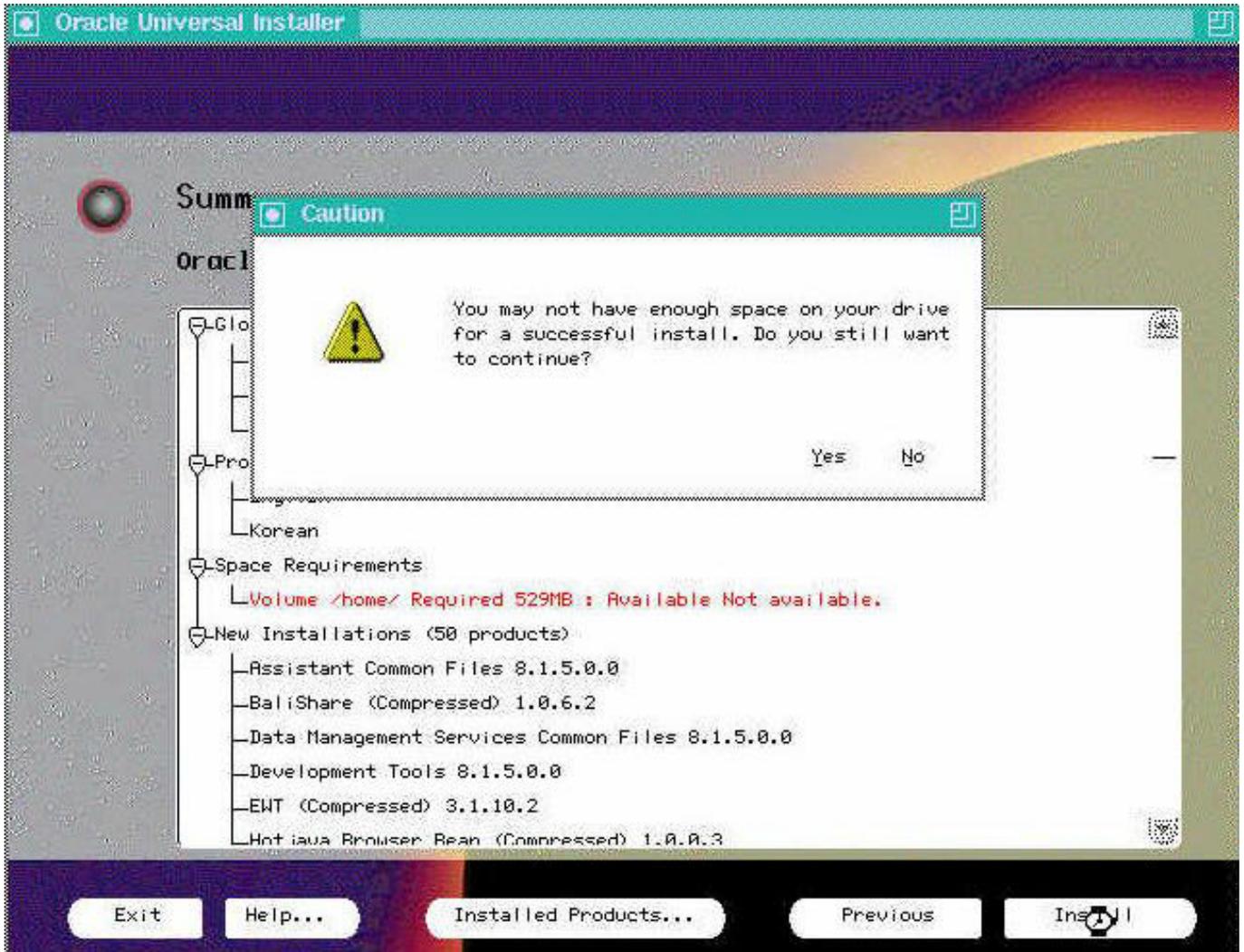


[1-16]

가

Previous

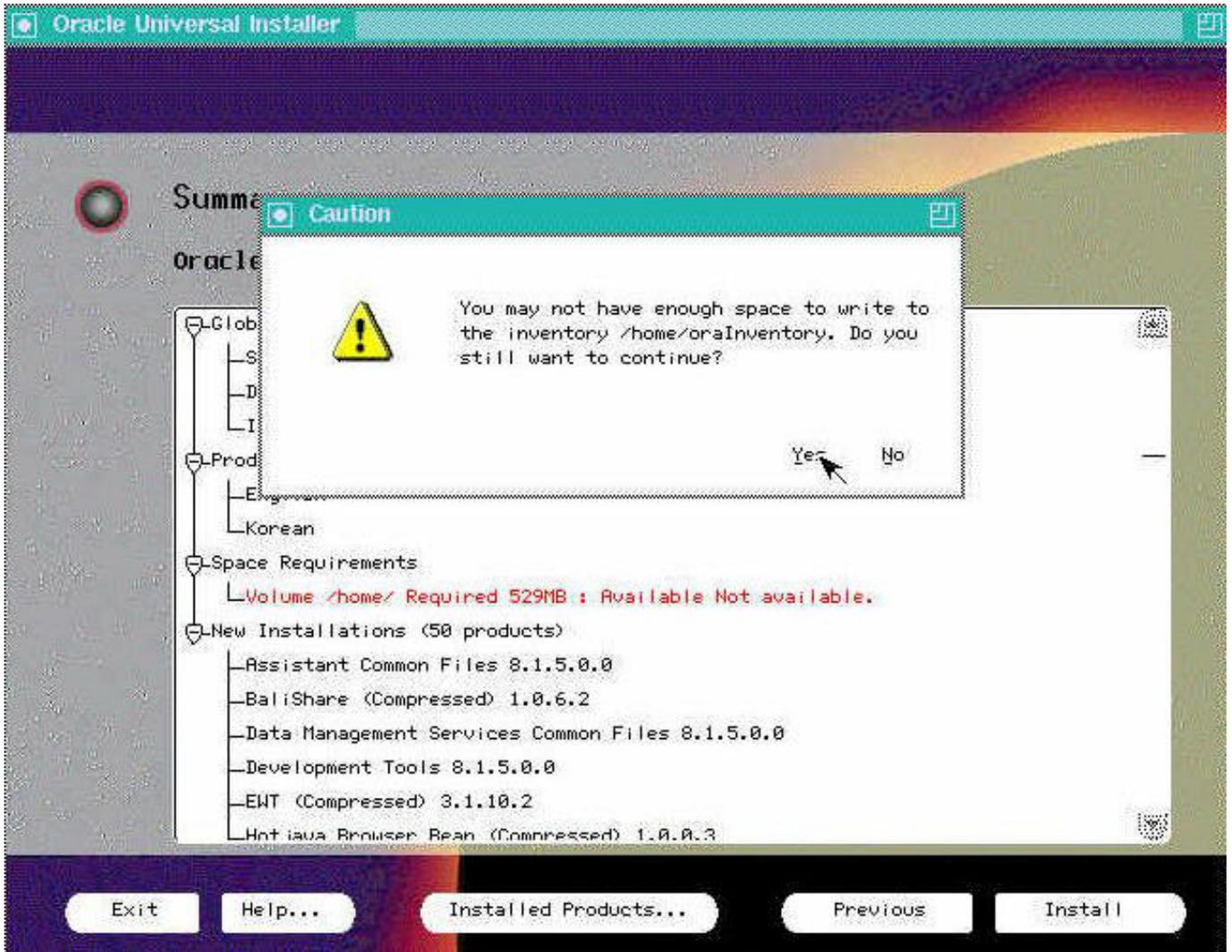
Caution



[1-17]

Command Line `df -k` 가
가 “Yes” 가

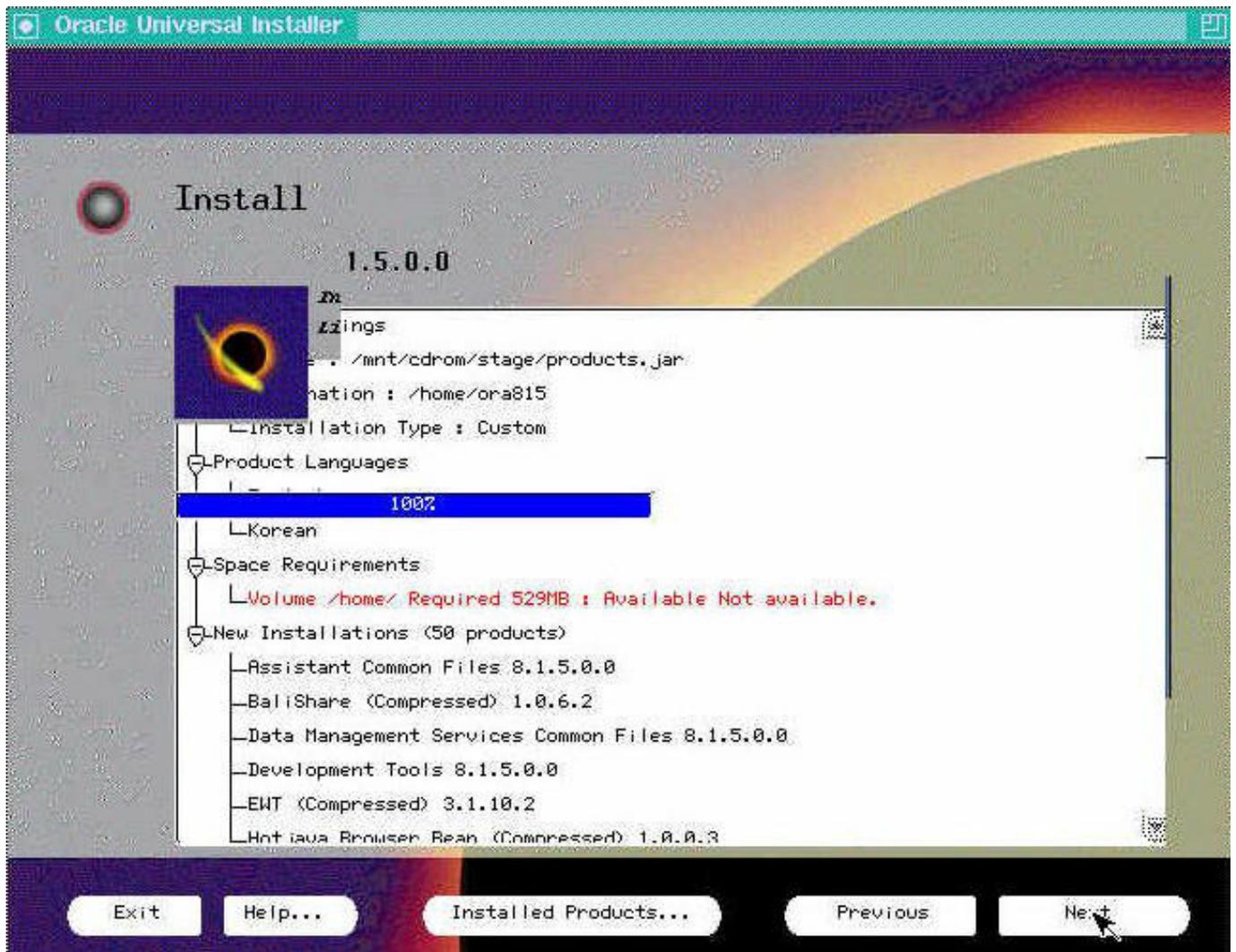
Caution



[1-18]

가 Command Line df -k
가 “Yes”

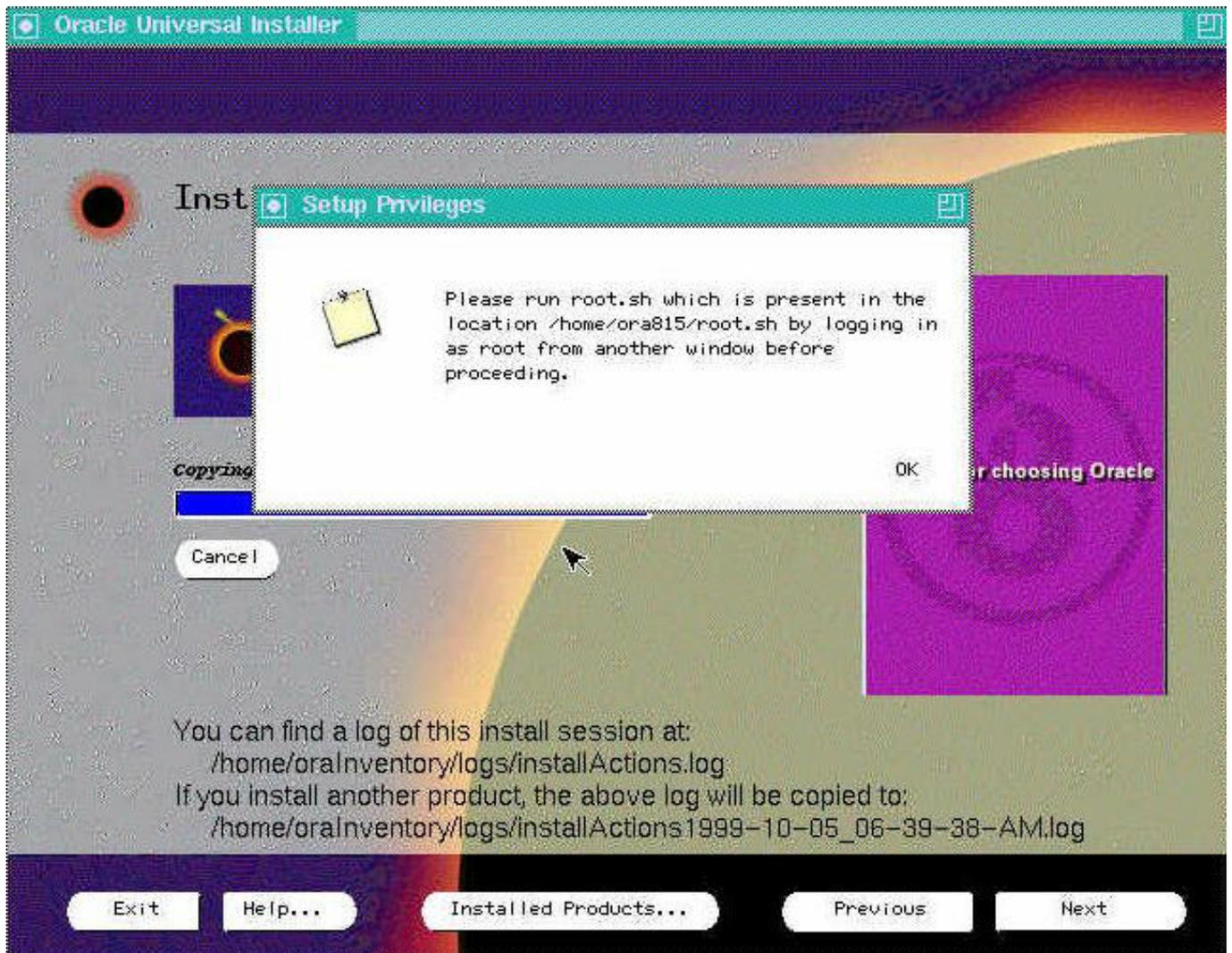
Install



[1-19]

Summary

Setup Privileges



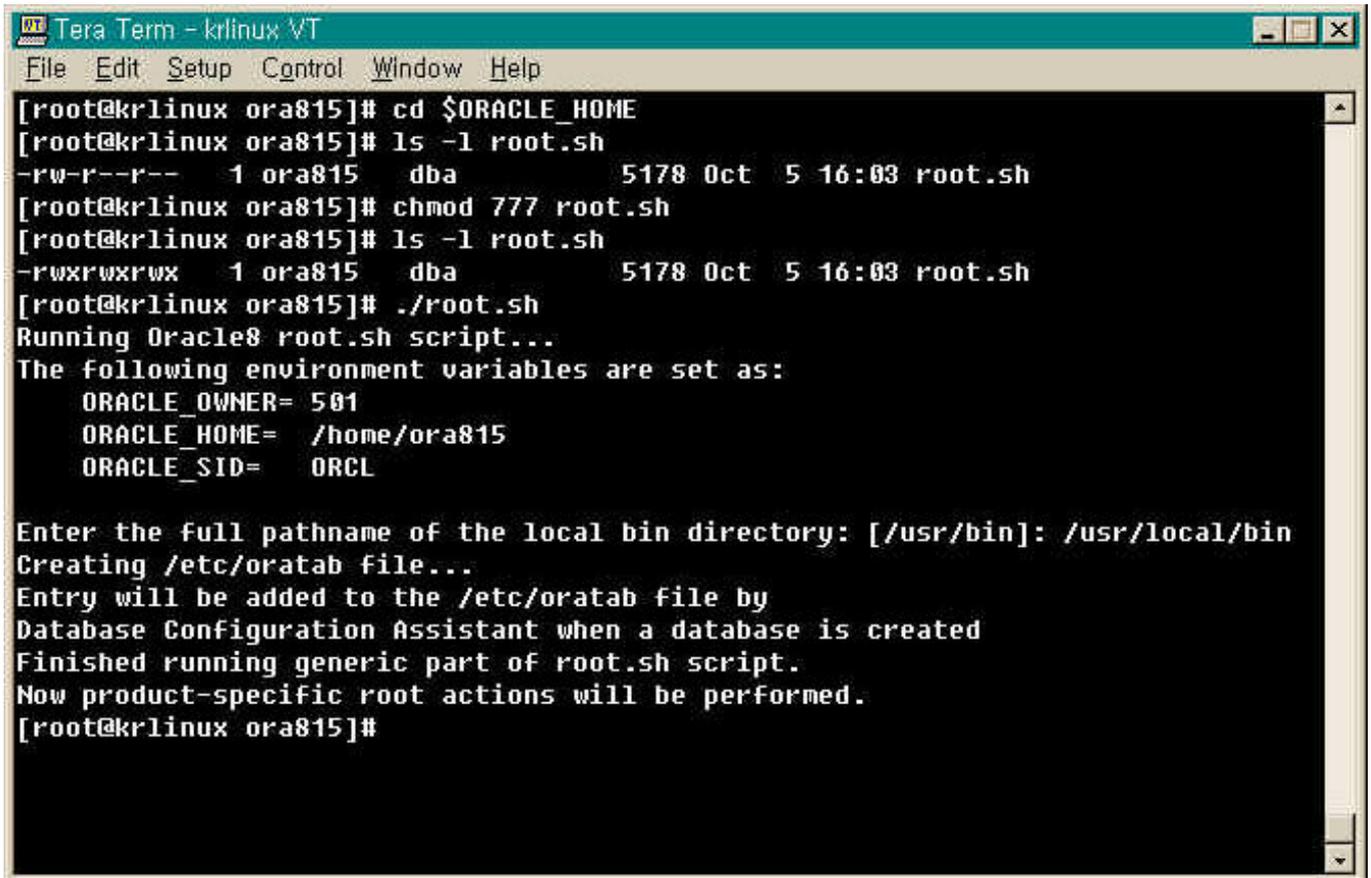
[1-20]

root

ORACLE_HOME/root.sh

가

root.sh



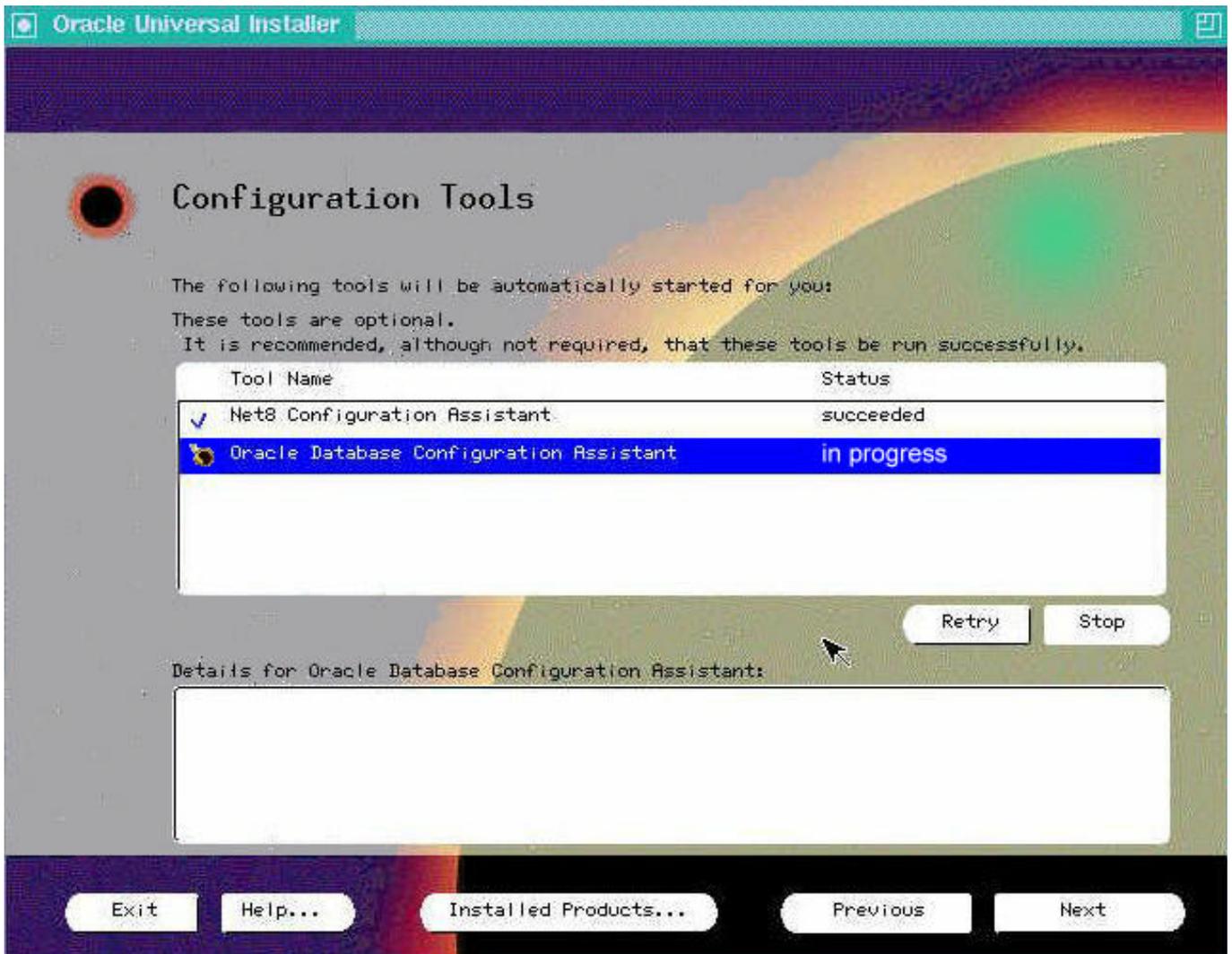
```
Tera Term - krlinux VT
File Edit Setup Control Window Help
[root@krlinux ora815]# cd $ORACLE_HOME
[root@krlinux ora815]# ls -l root.sh
-rw-r--r--  1 ora815  dba          5178 Oct  5 16:03 root.sh
[root@krlinux ora815]# chmod 777 root.sh
[root@krlinux ora815]# ls -l root.sh
-rwxrwxrwx  1 ora815  dba          5178 Oct  5 16:03 root.sh
[root@krlinux ora815]# ./root.sh
Running Oracle8 root.sh script...
The following environment variables are set as:
  ORACLE_OWNER= 501
  ORACLE_HOME=  /home/ora815
  ORACLE_SID=   ORCL

Enter the full pathname of the local bin directory: [/usr/bin]: /usr/local/bin
Creating /etc/oratab file...
Entry will be added to the /etc/oratab file by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
[root@krlinux ora815]#
```

[1-21 root.sh]

root ORACLE_HOME/root.sh 가
local bin

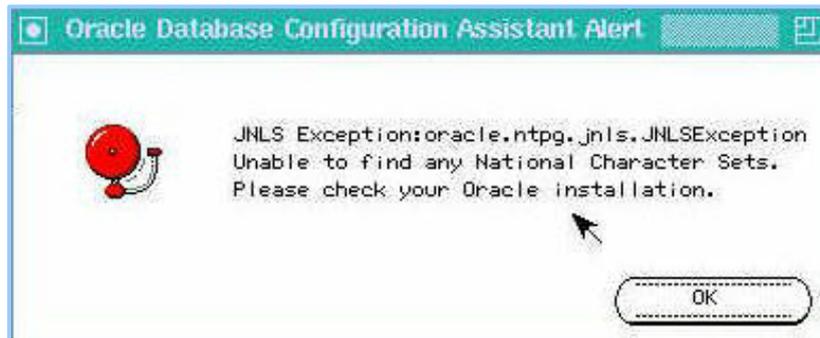
Configuration Tools



[1-22]

Net8 DBCA . Next
DBCA .

Configuration Tools

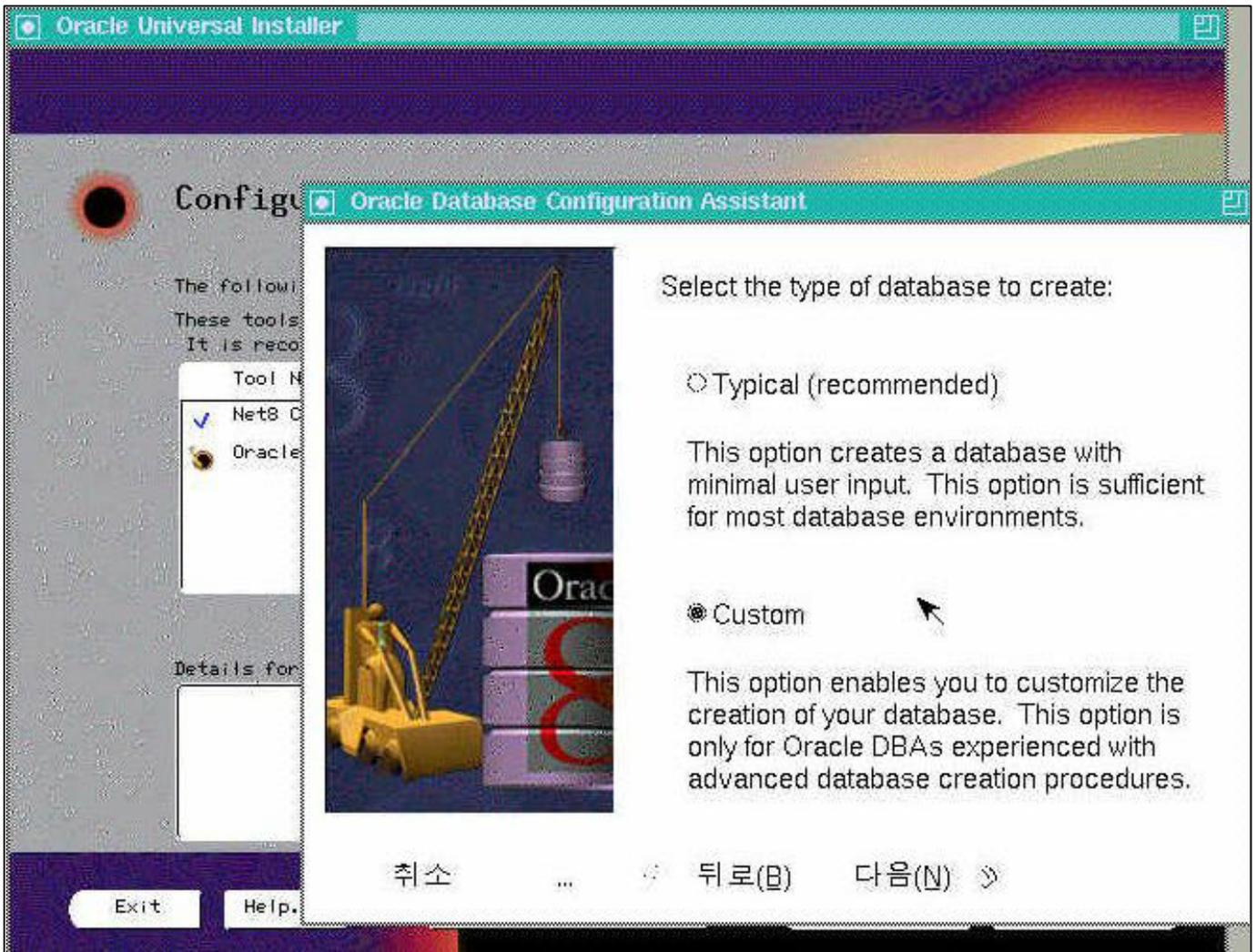


[1-23 DBCA]

DBCA가

가

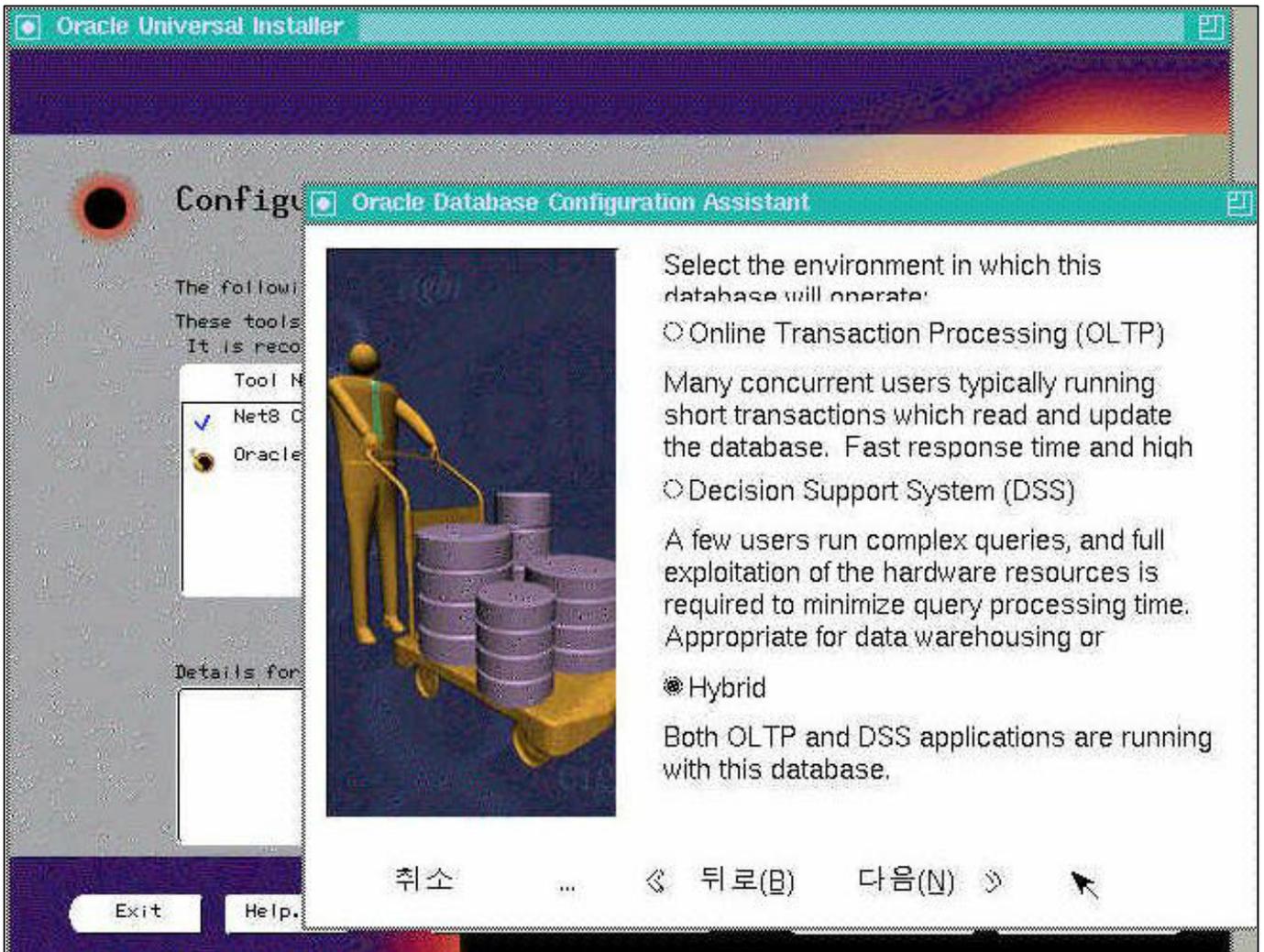
Oracle Database Configuration Assistant(DBCA- Database Type)



[1-24 DBCA-]

Typical Custom 가
 . Custom . “ (N)” .

Oracle Database Configuration Assistant(DBCA-Database Environment)



[1-25]

가

Oracle Database Configuration Assistant(DBCA-Number of Database Users)



[1-26]

Oracle Database Configuration Assistant(DBCA-Connection Mode)



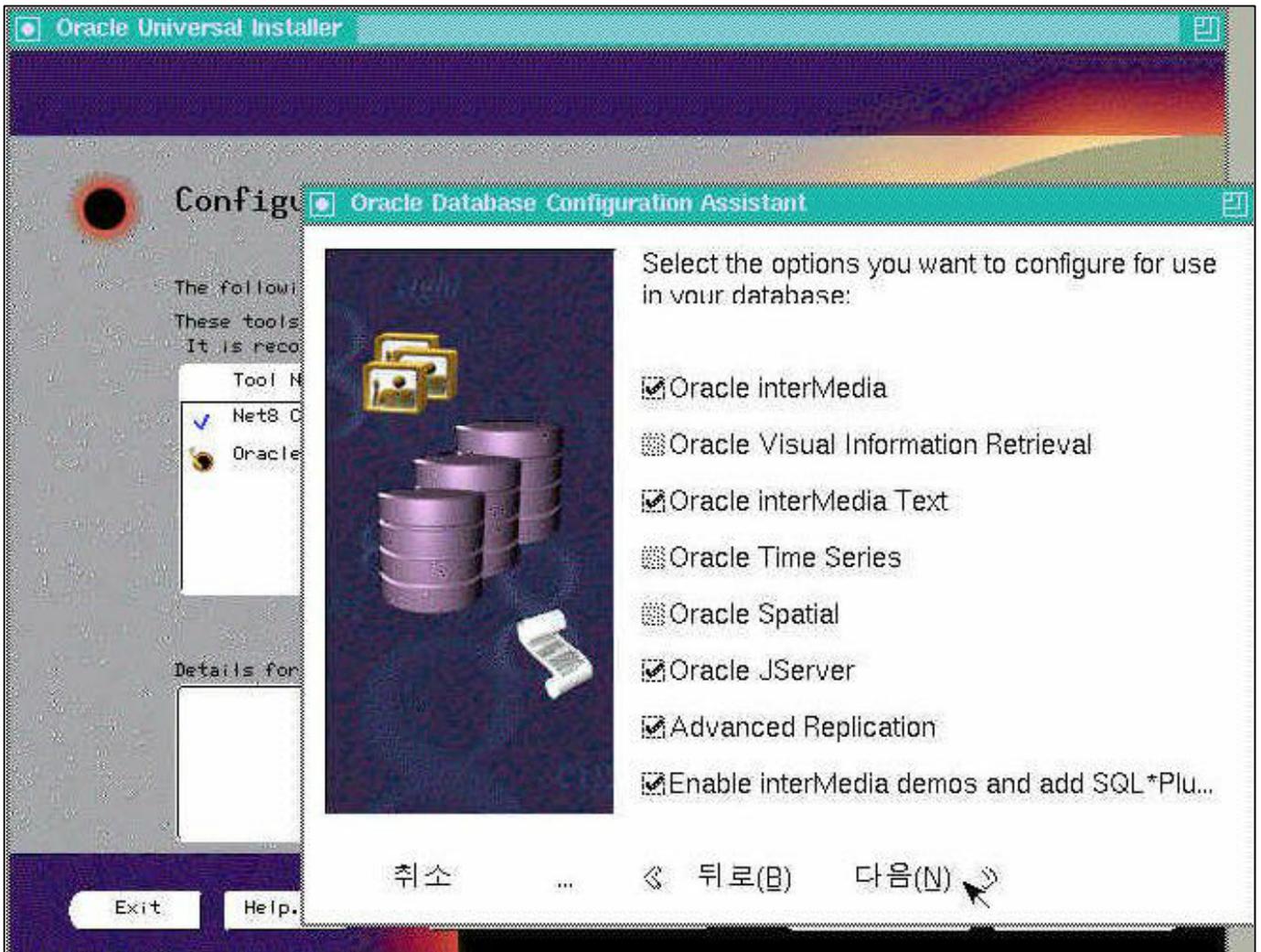
[1-27 Connection Mode]

가

Shared Service Mode , Multi-Threaded Server

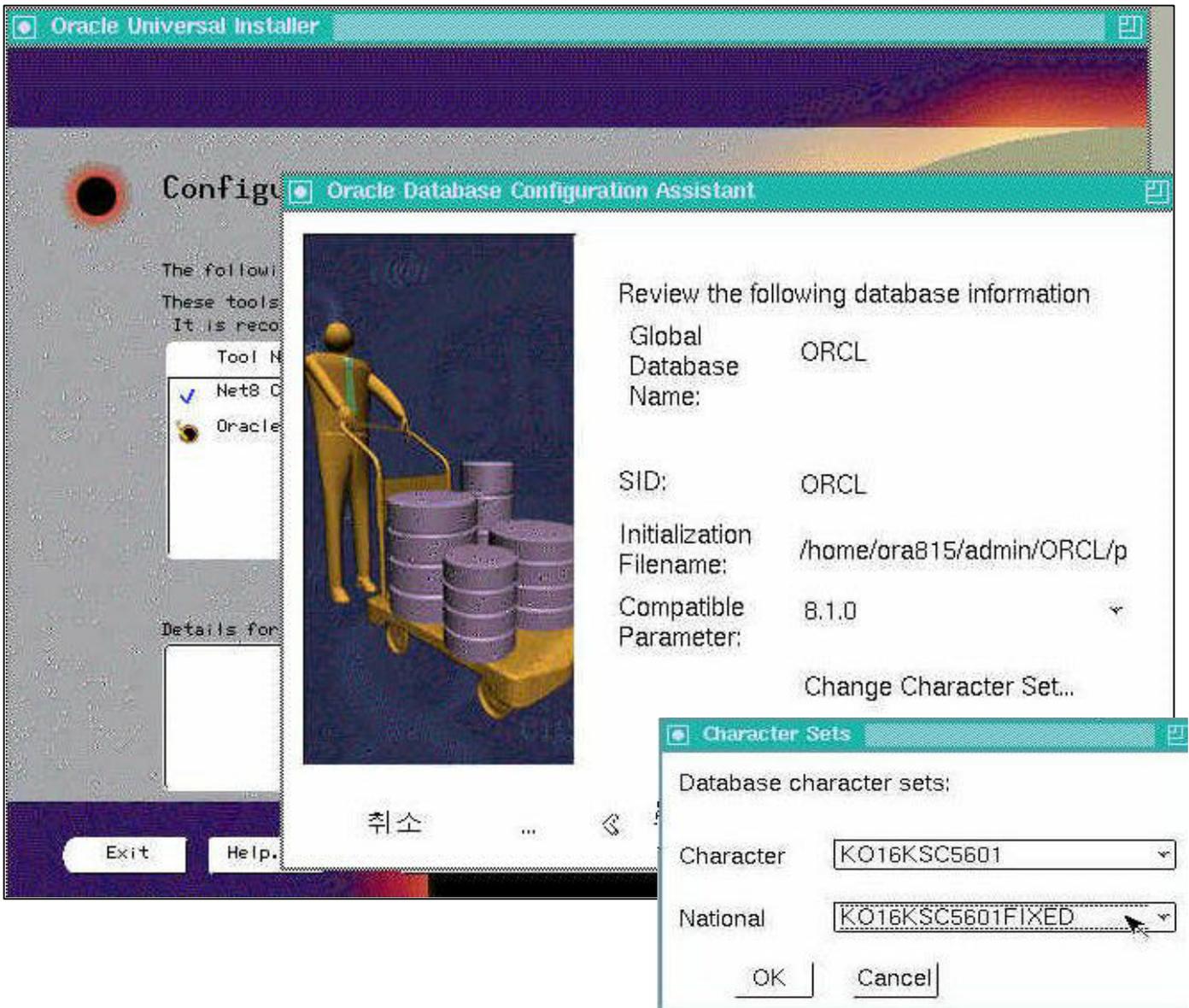
Dedicated Server Mode

Oracle Database Configuration Assistant(DBCA-Database Options)



[1-28]

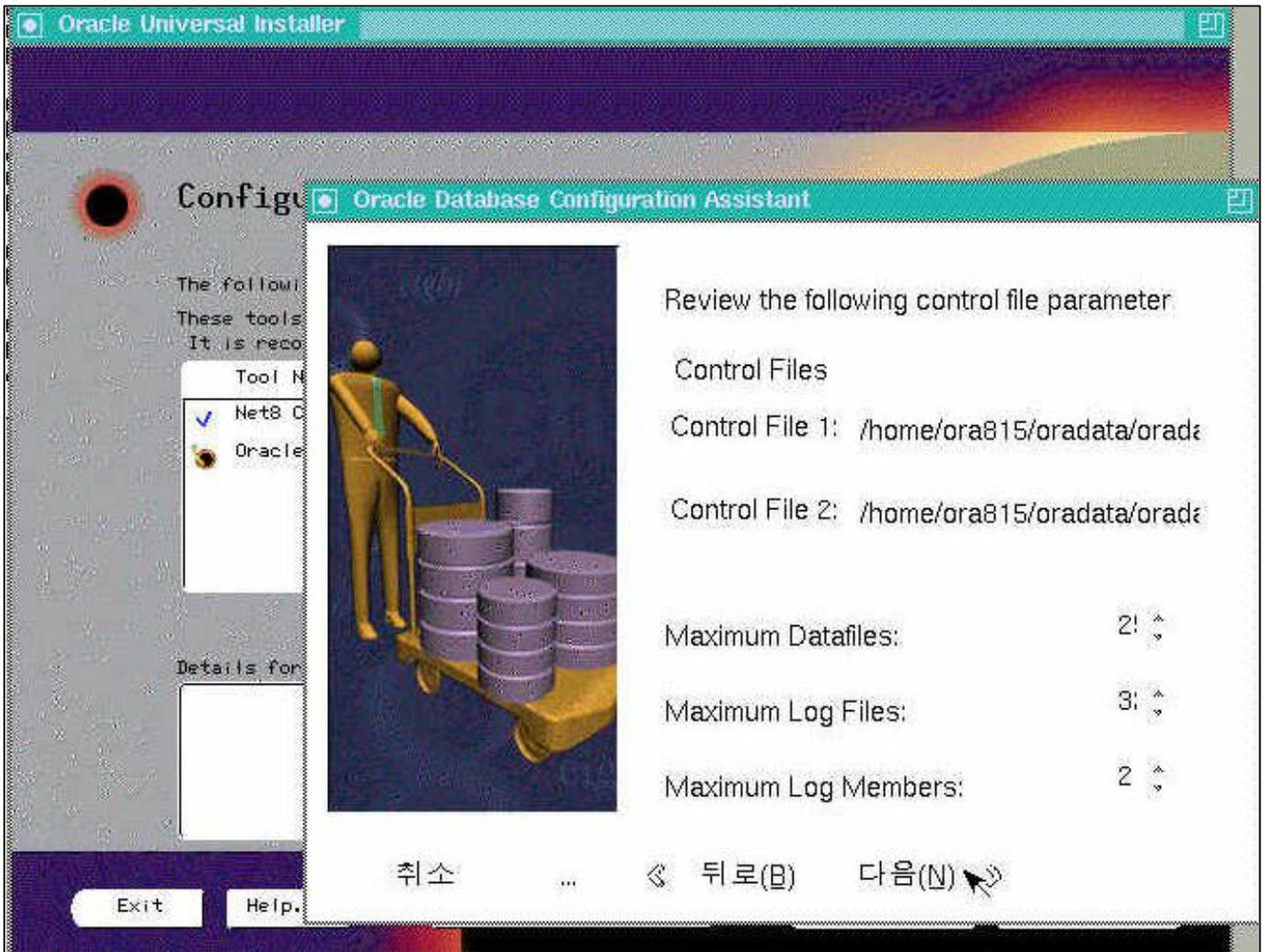
Oracle Database Configuration Assistant(DBCA-Database Information)



[1-29]

National Character Set "KO16KSC5601FIXED" . "Change Character Set"
 NCHAR
 NVARCHAR2 NCLOB data type .

Oracle Database Configuration Assistant(DBCA-Control File Parameter)



[1-30]

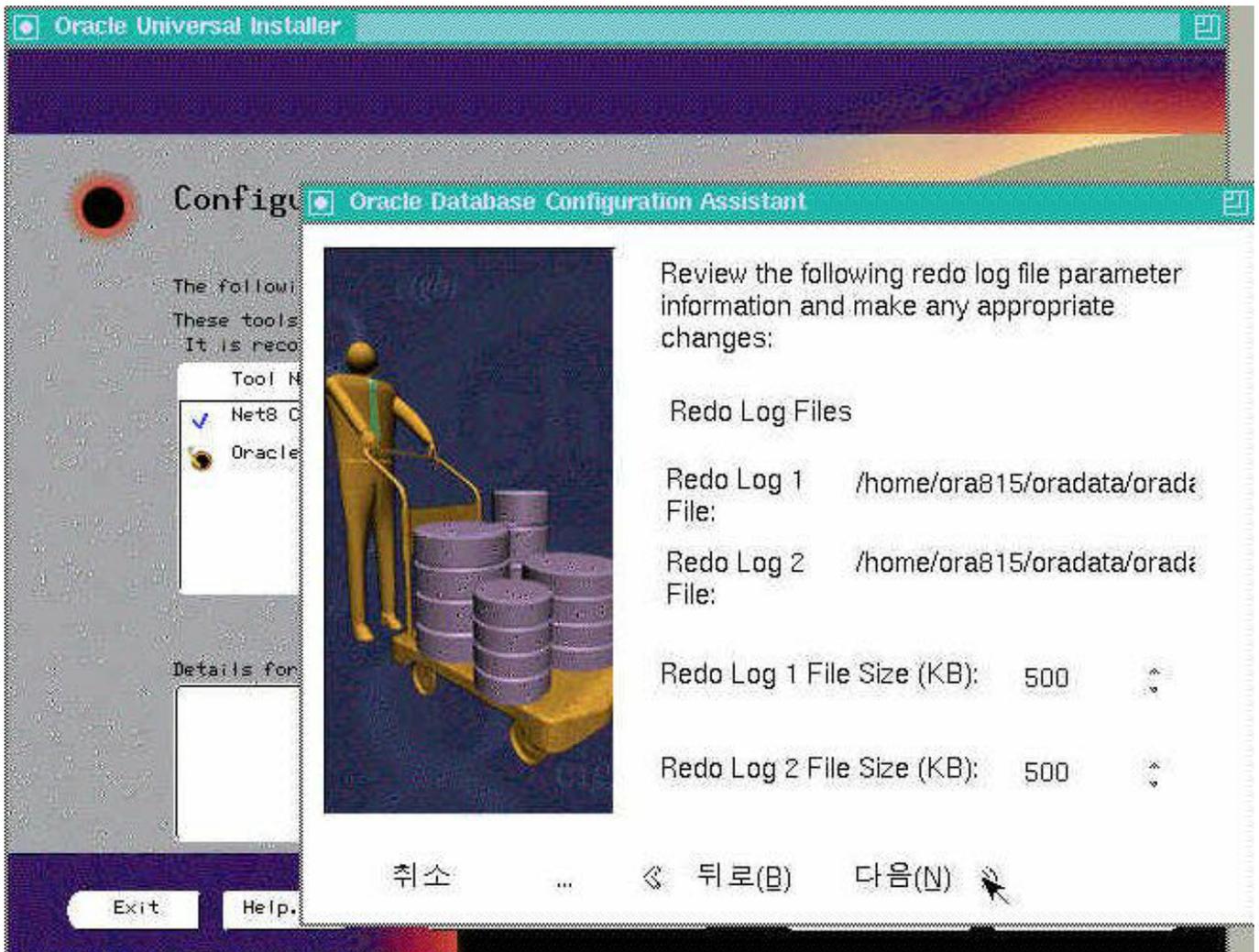
Oracle Database Configuration Assistant(DBCA-Tablespace Information)



[1-31]

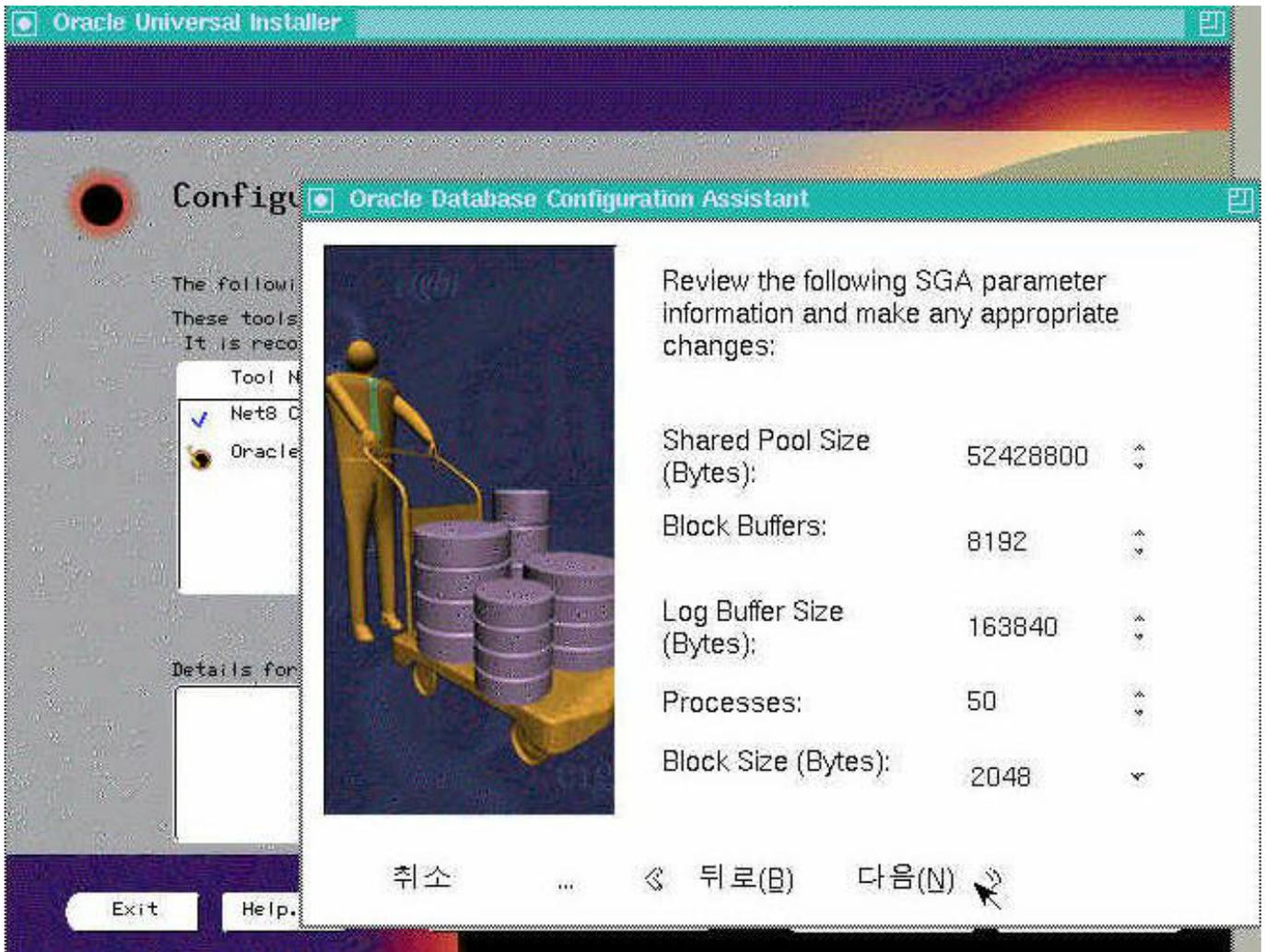
가

Oracle Database Configuration Assistant(DBCA-Redo Log)



[1-32]

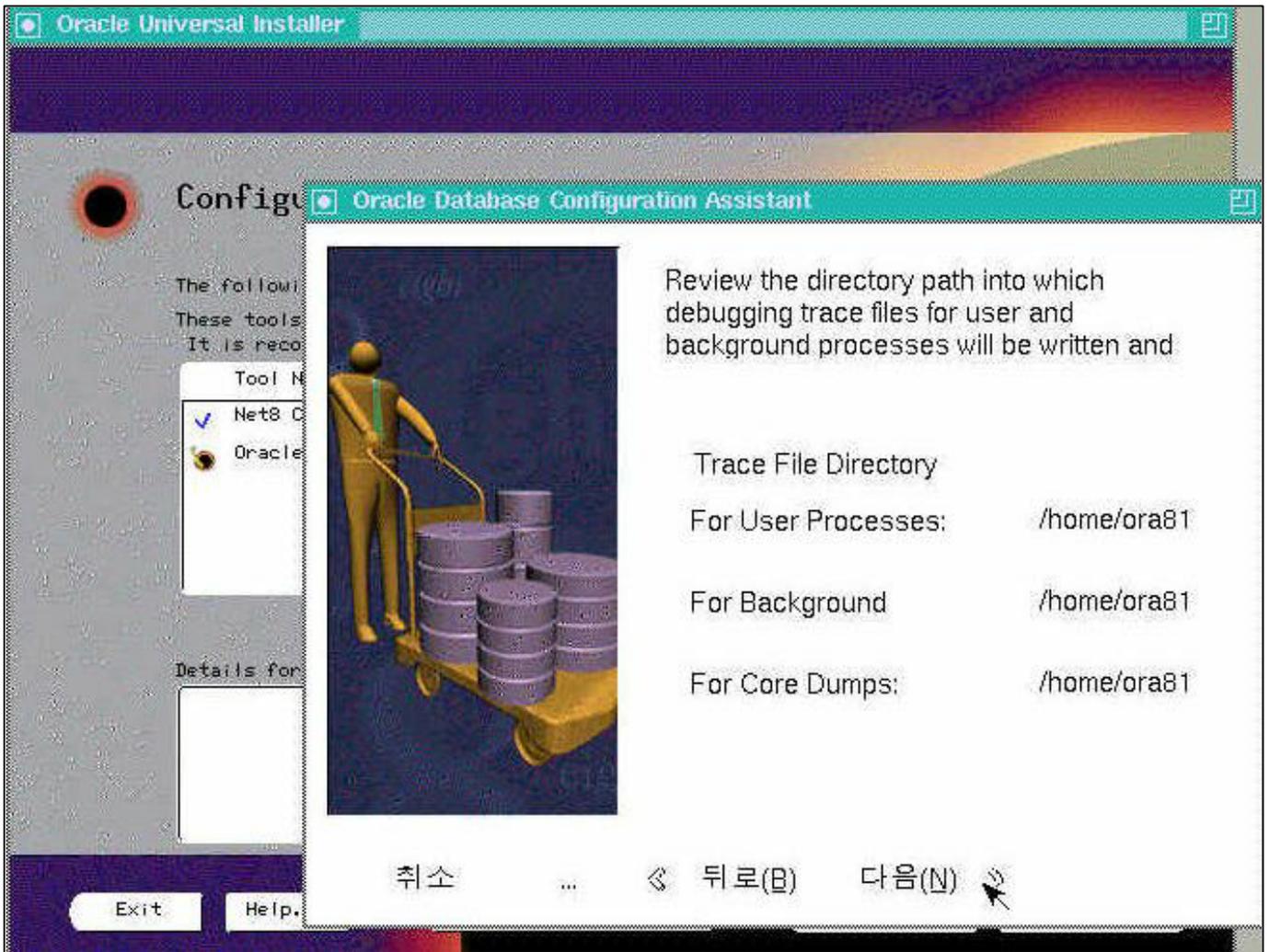
Oracle Database Configuration Assistant(DBCA-SGA Parameter)



[1-33 SGA]

SGA Size, Shared Pool Size, Log Buffer Size, Block Size (2048), OLTP, Hybrid, DSS, 가

Oracle Database Configuration Assistant(DBCA-Trace)



[1-34 Trace]

Trace

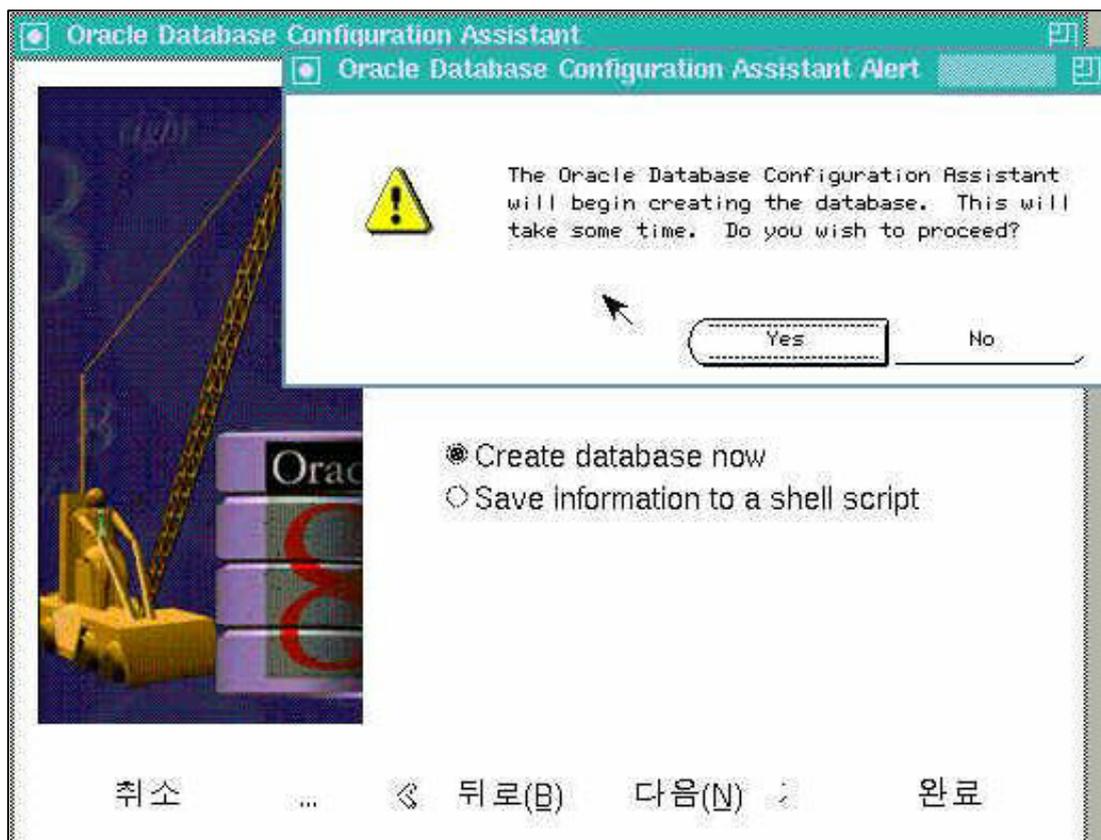
Oracle Database Configuration Assistant(DBCA-Running Method)



[1-35]

Database
가 ,
가 “ ”
가 .
가 .

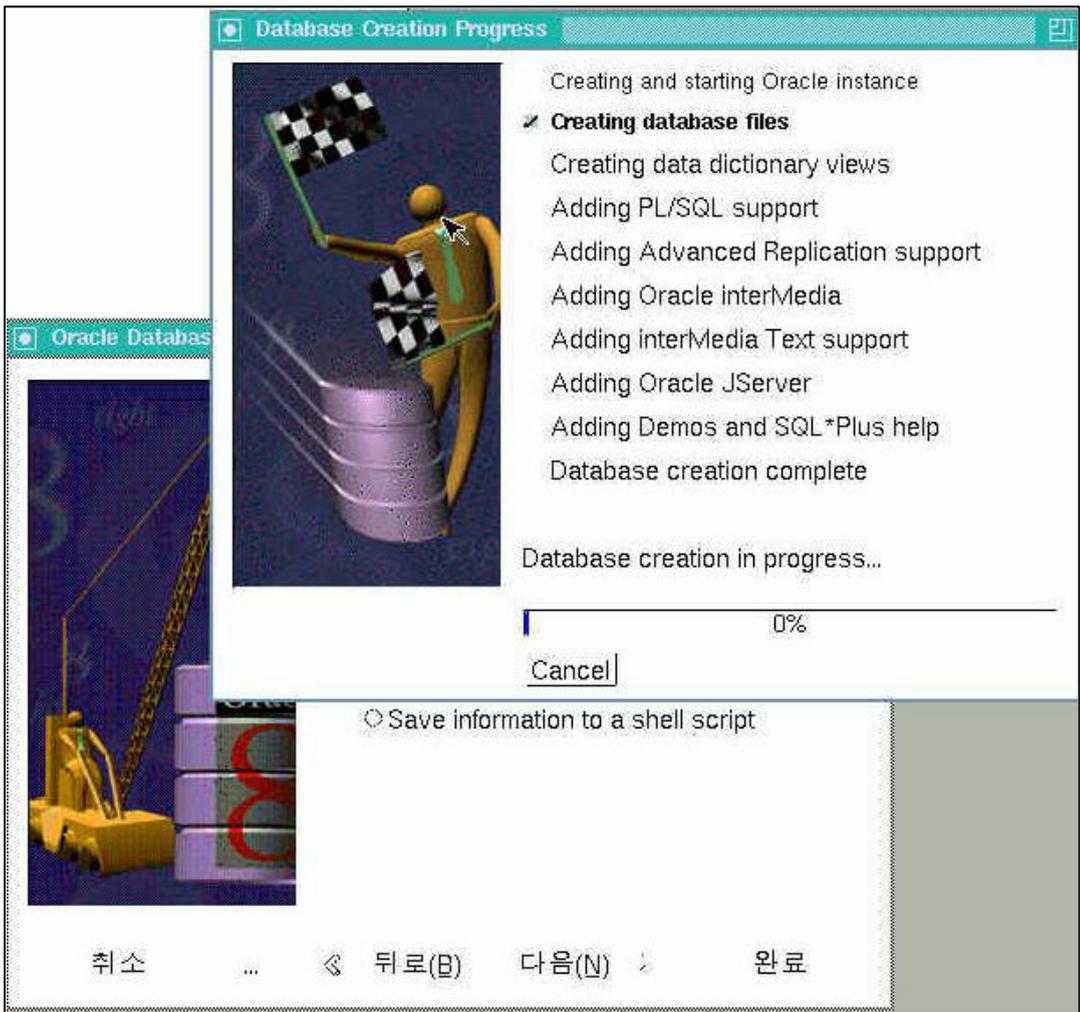
Oracle Database Configuration Assistant(DBCA-Alert)



[1-36]

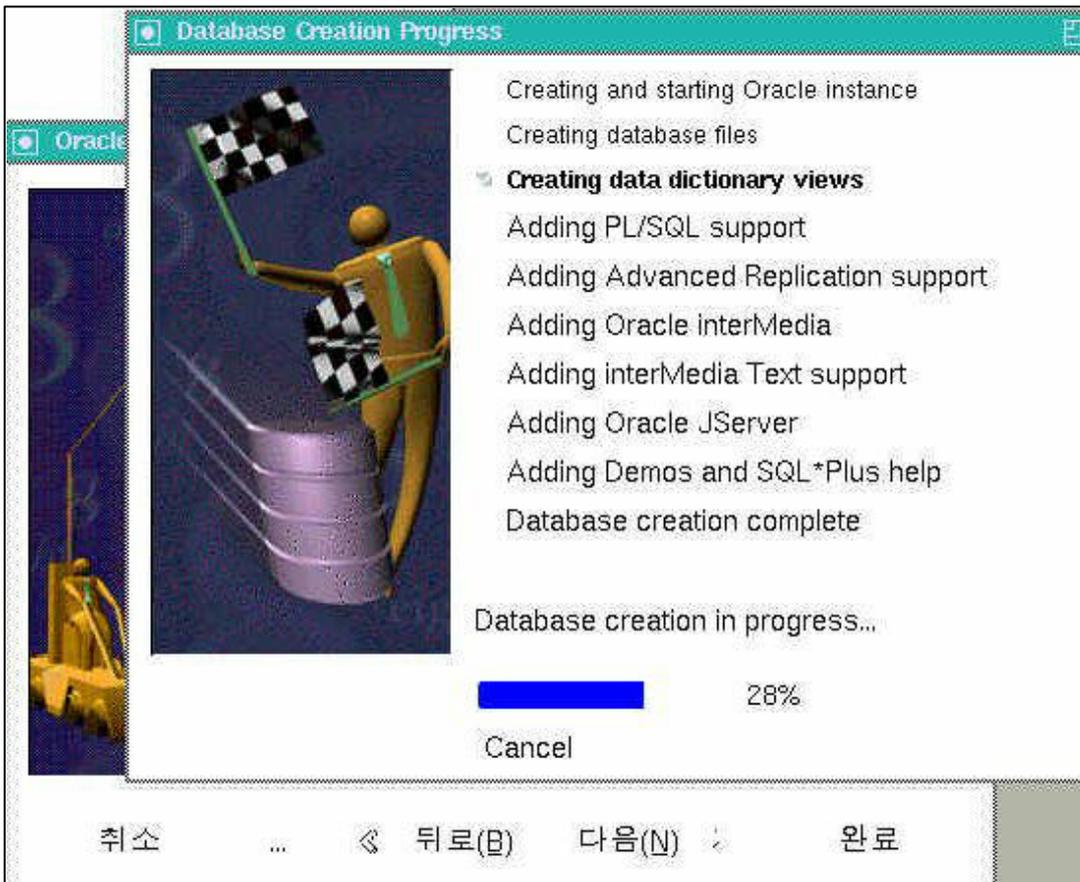
."Yes"

Oracle Database Configuration Assistant(DBCA-Progress)



[1-37]

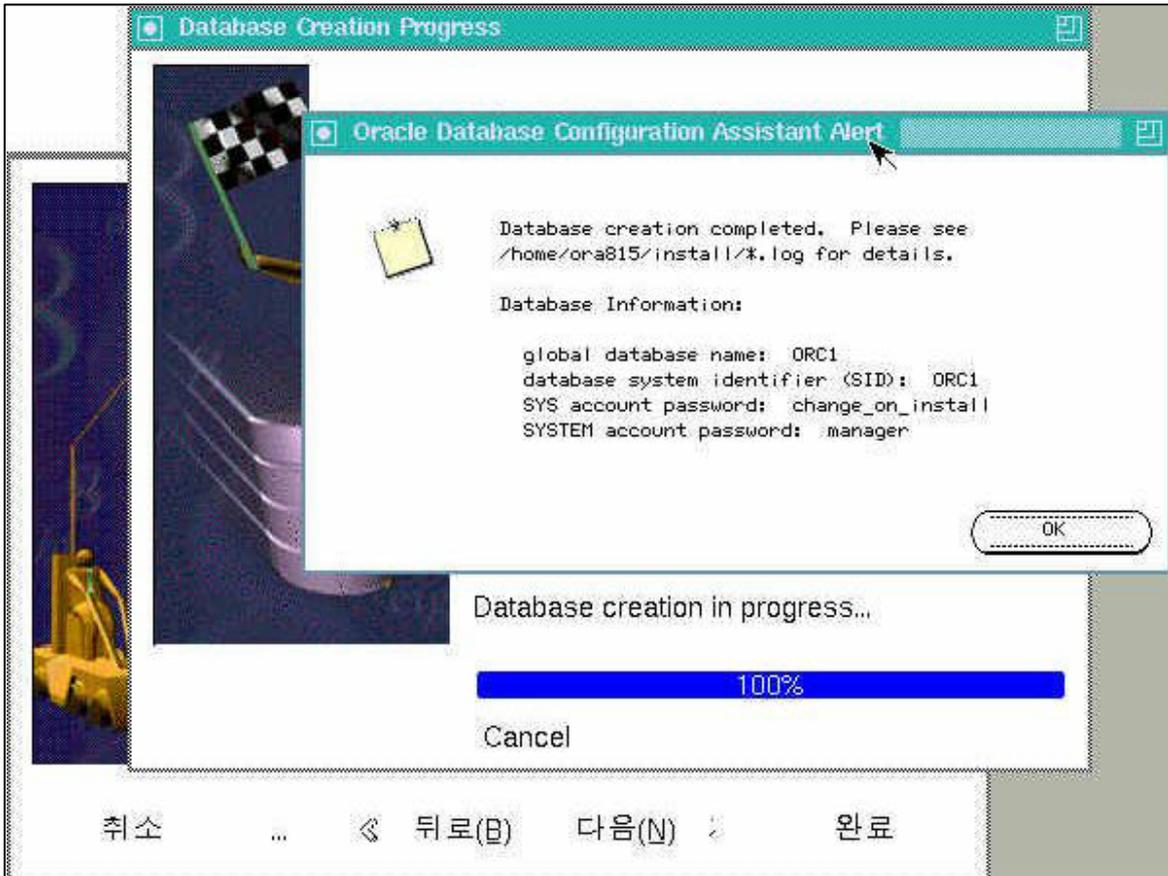
Oracle Database Configuration Assistant(DBCA-Progress)



[1-38]

Jserver

Oracle Database Configuration Assistant(DBCA-Completion Alert)



[1-39]

가 .“OK” 가 .

```
oracle                                svrmgrl
.( $                                     )

$ svrmgrl

Oracle Server Manager Release 3.1.5.0.0 - Production
(c) Copyright 1997, Oracle Corporation. All Rights Reserved.

Oracle8 Release 8.1.5.0.0 - Production
With the Java option
PL/SQL Release 8.1.5.0.0 - Production

SVRMGR> connect internal;
Connected.
SVRMGR> startup;
ORACLE instance started.
Total System Global Area              71998864 bytes
Fixed Size                             64912 bytes
Variable Size                          54974804 bytes
Database Buffers                       16777216 bytes
Redo Buffers                            172032 bytes
Database mounted.
Database opened.
SVRMGR> quit
Server Manager complete.
$
```

```
$ svrmgr1
```

```
Oracle Server Manager Release 3.1.5.0.0 - Production
```

```
(c) Copyright 1997, Oracle Corporation. All Rights Reserved.
```

```
Oracle8 Release 8.1.5.0.0 - Production
```

```
With the Java option
```

```
PL/SQL Release 8.1.5.0.0 - Production
```

```
SVRMGR> connect internal;
```

```
Connected.
```

```
SVRMGR> shutdown;
```

```
Database closed.
```

```
Database dismounted.
```

```
ORACLE instance shut down.
```

```
SVRMGR> quit
```

```
Server Manager complete.
```

```
$
```

svrmgrl

\$ svrmgrl

Oracle Server Manager Release 3.1.5.0.0 - Production

(c) Copyright 1997, Oracle Corporation. All Rights Reserved.

Oracle8 Release 8.1.5.0.0 - Production

With the Java option

PL/SQL Release 8.1.5.0.0 - Production

SVRMGR> **connect internal;**

Connected.

SVRMGR> **create user scott identified by tiger**

default tablespace users

temporary tablespace temp

quota unlimited on users;

Created

SVRMGR> **grant connect to scott;**

Processed

SVRMGR> **exit;**

sqlplus

\$ sqlplus scott/tiger

SQL*Plus: Release 8.1.5.0.0 - Production on Tue Oct 7 15:20:08 1999

(c) Copyright 1999 Oracle Corporation. All rights reserved.

Connected to:

Oracle8 Release 8.1.5.0.0 - Production

With the Java option

PL/SQL Release 8.1.5.0.0 - Production

SQL>@?/sqlplus/demo/demobld

SQL> select table_name from tabs;

TABLE_NAME

BONUS

DEPT

DUMMY

EMP

EXECUTABLES

SALES

SALGRADE

SQL>

SCOTT

7

,desc

SQL> desc dept;

Name	Null?	Type
DEPTNO		NUMBER(2)
DNAME		VARCHAR2(14)
LOC		VARCHAR2(13)

dept

dept . Select

SQL> select * from dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

dept 4 row가

