

**Altibase Administration**

# Installation Guide

**Release 6.1.1**

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Altibase Administration Installation Guide

Release 6.1.1

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# Preface

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## About This Manual

This manual describes how to install and configure ALTIBASE® HDB™ on UNIX and Microsoft Windows platforms.

### Audience

This manual has been prepared for the following ALTIBASE HDB users:

- database managers
- performance managers
- database users
- application developers
- technical support workers

It is recommended that those reading this manual possess the following background knowledge:

- basic knowledge in the use of computers, operating systems, and operating system utilities
- experience in using relational databases and an understanding of database concepts
- computer programming experience
- experience in database server, operating system or network administration

### Software Environment

This manual has been prepared assuming that ALTIBASE HDB 5.5.1 is used as the database server.

### Organization

This manual is organized as follows:

- [Chapter1: About the ALTIBASE HDB Package Installer](#)
- [Chapter2: Installing Products Using the ALTIBASE HDB Package Installer](#)
- [Chapter3: Patching Products Using the ALTIBASE HDB Package Installer](#)

### Documentation Conventions

This section describes the conventions used in this manual. Understanding these conventions will make it easier to find information in this manual and other manuals in the series.

Rules	Meaning
<i>Italic</i>	Indicates book title, emphasis, or placeholder variables for which particular values are supplied by user.
monospace	Indicates commands within a paragraph, code in examples, etc.

## On-line Manuals

Manuals are available at Altibase Technical Center (<http://atc.altibase.com/>).

## Altibase Welcomes Your Comments

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Include the following information :

- The name and version of the manual that you are using
- Any comments that you have about the manual
- Your name, address, and phone number

Write to us at the following electronic mail address: support@altibase.com

When you need an immediate assistance regarding technical issues, please contact Altibase Technical Center.

Thank you. We appreciate your feedback and suggestions.

## About This Manual

# 1 About the ALTIBASE HDB Package Installer

---

The ALTIBASE HDB Package Installer is a Java-based installer that enables users to install Altibase products, such as the database server, client components and tools, more easily. This chapter describes the directories and files that are generated as a result of a successful installation.

## 1.1 Altibase Home

The so-called “Altibase Home” directory is the directory in which the ALTIBASE HDB is installed. This is set in an environment variable.

### 1.1.1 Installing the Altibase Product

When installing an ALTIBASE HDB, the Altibase home directory is created.

To install the product, perform the following steps:

1. Run the ALTIBASE HDB Package Installer.
2. In the Installation Directory page, enter the full path to the Altibase home directory.
3. Continue with the installation.

### 1.1.2 The Default Altibase Home Directory

By default, when the ALTIBASE HDB Package Installer is started, it determines the default Altibase home directory where the Altibase product is to be installed. The following conventions are used for the name of the Altibase home directory:

- ALTIBASE HDB Server Products:

`$HOME/altibase-server-<version>`

- ALTIBASE HDB Client Products:

`$HOME/altibase-client-<version>`

## 1.2 The APatch Directory

Information about all Altibase products installed using the ALTIBASE HDB Package Installer is stored in the APatch directory in the Altibase home directory.

### 1.2.1 Structure and Contents of the APatch Directory

The name of the ALTIBASE HDB Package Installer Directory is APatch, and it is located in the Altibase home directory. It contains files that contain information about the installed product or about versions of patches. It contains the following files and directories:

- patchinfo File
- pkg\_patch\_<version>.txt File
- altibase\_base\_install.log File
- Backup Directory

### 1.2.2 patchinfo File

This file contains:

- information about the base release version and patch version of the currently installed Altibase Product, and
- information about the environment in which the product was compiled, such as the OS, OS patch, C/C++ compiler and Java compiler.

Ex)

```
PRODUCT_SIGNATURE=server-5.5.1-64-release
PATCH_VERSION=0_0_0_0

===== OS INFO =====
Linux qar2 2.6.18-164.el5xen #1 SMP Tue Aug 18 15:59:52 EDT 2009 x86_64
x86_64 x86_64 GNU/Linux

===== PATCH INFO =====
2.6.18-164.el5xen

===== COMPILER INFO =====
gcc version 4.1.2 20080704 (Red Hat 4.1.2-46)
glibc 2.5

===== JAVA INFO =====
java version "1.4.2_19"
Java(TM) 2 Runtime Environment, Standard Edition (build 1.4.2_19-b04)
Java HotSpot(TM) Client VM (build 1.4.2_19-b04, mixed mode)
```

### 1.2.3 pkg\_patch\_x\_x\_x\_x.txt File

This file is automatically generated every time the product is patched, and is named `pkg_patch_<installed version number>.txt`. It contains the revision number of the

## 1.2 The APatch Directory

source code that was modified to create the patch. Additionally, this file, which is generated only after a patch is applied, contains the list of the bugs that were fixed for a patch.

The following example shows the contents of the APatch directory after the base release 0.0.0.0 is installed:

```
% ls  
pkg_patch_5_5_1_0.txt
```

The following example shows the contents of the APatch directory after the patch 0.0.0.10 is applied:

```
%ls  
pkg_patch_5_5_1_0.txt  pkg_patch_5_5_1_10.txt  
  
%cat pkg_patch_5_5_1_10.txt  
Repository: /altidev4/trunk/  
Revision: 42850  
Last Changed Rev: 42850
```

### 1.2.4 altibase\_base\_install.log File

All actions during the most recent installation are recorded in this file.

### 1.2.5 Backup Directory

When a patch is installed, the ALTIBASE HDB Package Installer creates backups of the files to which the patch is applied, and stores these files in a directory located in the \$ALTIBASE\_HOME/APatch/ directory. Inside this directory, separate backup directories are created for each patch.

These backup files will be used if the patch is rolled back later. Additionally, executable files for use in uninstalling ALTIBASE HDB or rolling back patches are installed in the \$ALTIBASE\_HOME/APatch/ directory when a product is installed or a patch is applied.

The following example shows the contents of the APatch directory after the base release 0.0.0.0 is installed:

Ex) after installing the base release 0.0.0.0

**altibase\_base\_install.log** **patchinfo** **pkg\_patch\_0\_0\_0\_0.txt** **uninstall-base**

- **uninstall-base**: the executable file for uninstalling the base release 0.0.0.0

The following example shows the contents of the APatch directory after the patch 0.0.0.10 is applied:

Ex) after applying the patch 0.0.0.10

**altibase\_base\_install.log** **patchinfo** **pkg\_patch\_0\_0\_0\_10.txt** **uninstall-p0\_0\_0\_10**  
**rollback-p0\_0\_0\_10** **uninstall-base**

- **uninstall-base**: the executable file for uninstalling the base release 0.0.0.0
- **rollback-p0\_0\_0\_10**: the directory where the backups of the files to which the patch 0.0.0.10 was applied are located

- `uninstall-p0_0_0_10`: the executable file for uninstalling the patch 0\_0\_0\_10 and rolling back to the previous version, which is stored in the `rollback-p0_0_0_10` directory

## 1.2 The APatch Directory

# **2** Installing Products Using the ALTIBASE HDB Package Installer

---

This chapter includes the following sections:

- [Hardware Requirements](#)
- [Running the ALTIBASE HDB Package Installer](#)
- [Installing Altibase Products for Unix and Linux](#)
- [Installing Altibase Products for Windows](#)
- [Installing Altibase Client Products for Unix and Linux](#)
- [Installing Altibase Client Products for Windows](#)
- [Uninstalling Altibase Products](#)

## 2.1 Hardware Requirements

In order to install and operate ALTIBASE HDB, the following system requirements must be met. The requirements and recommendations made in this chapter are based on a typical scenario in which ALTIBASE HDB is used normally. However, your requirements may vary depending on your database system or intended use. For detailed information about system requirements, please contact the Altibase Customer Support Center ([support@altibase.com](mailto:support@altibase.com)).

### 2.1.1 Memory

32-bit OS : At least 512 MB (1GB recommended; 4GB upper limit)

64-bit OS : At least 512 MB (1GB recommended, no upper limit)

### 2.1.2 CPU

1 CPU or more (2 or more CPUs recommended)

### 2.1.3 Hard Disk

The disk used for ALTIBASE HDB must have sufficient space for tablespaces for saving data, the transaction logs, and the Altibase software. There must be at least 1GB of space for each of the Altibase software and the transaction logs. We recommend that at least 12GB of free space be provided, depending on your data storage requirements. Additionally, we strongly recommend that more than one physical disk be provided, so that data files and log files can be stored on separate physical disks.

### 2.1.4 Network

When using the replication function, it is recommended that a dedicated line be used.

## 2.2 Running the ALTIBASE HDB Package Installer

### 2.2.1 ALTIBASE HDB Package Installer Commands

The names of the ALTIBASE HDB Package Installer commands follow the convention shown in the example below. The command name is the same as the package name. The ALTIBASE HDB server package and client package are distributed as separate packages. Please note, however, that the ALTIBASE HDB server package includes the client package.

Ex) ALTIBASE HDB Package Installer for a base release

```
altibase-server-5.5.1.0-AIX-POWERPC-64bit-release.bin  
altibase-server-5.5.1.0-WINDOWS-X86-64bit-release.exe
```

Ex) ALTIBASE HDB Client Package Installer for a patch

```
altibase-client-5.5.1.0-AIX-POWERPC-64bit-patch_0_0_0_1.bin  
altibase-client-5.5.1.0-WINDOWS-X86-64bit-release.exe
```

### 2.2.2 Modes of Installation

The ALTIBASE HDB Package Installer can be run in either of the following two modes to install Altibase products:

- Interactive Command-line Mode: This mode is used when the DISPLAY environment variable has not been set.
- GUI (Graphical User Interface) Mode: This mode is used when the DISPLAY environment variable has been set.

### 2.2.3 Special Instructions for UNIX users

In order to run the ALTIBASE HDB Package Installer in GUI mode, the DISPLAY environment variable must be set on the host computer on which the ALTIBASE HDB Package Installer is being run, as follows:

```
%setenv DISPLAY <machine name>:0.0
```

<machine name> can be either the IP address or the name of the computer that will display the ALTIBASE HDB Package Installer. On the computer that will display the ALTIBASE HDB Package Installer, enter the following command. This command allows other computers to display GUIs on that computer's monitor:

```
%xhost +
```

Re-run the ALTIBASE HDB Package Installer.

### 2.2.4 Running the Installer

After downloading the correct package for the server on which ALTIBASE HDB is to be installed, run the package. There are no options for executing the ALTIBASE HDB Package Installer.

## 2.3 Installing Altibase Products for Unix and Linux

The following sections describe how to install Altibase products.

- [Checking the Environment Before Installation](#)
- [Starting the ALTIBASE HDB Package Installer](#)
- [Checking System Parameters](#)
- [Entering the Installation Directory](#)
- [Setting ALTIBASE HDB Properties](#)
- [Confirming the ALTIBASE HDB Properties](#)
- [Installing ALTIBASE HDB](#)
- [Providing ALTIBASE HDB License Information](#)
- [The Quick Settings Guide of ALTIBASE HDB](#)
- [Finishing Installation](#)
- [Post-installation Tasks](#)

### 2.3.1 Checking the Environment Before Installation

Before installation, the ALTIBASE HDB Package Installer checks the local environment to see whether it meets the requirements for a successful installation. This procedure is performed without displaying the ALTIBASE HDB Package Installer graphical user interface.

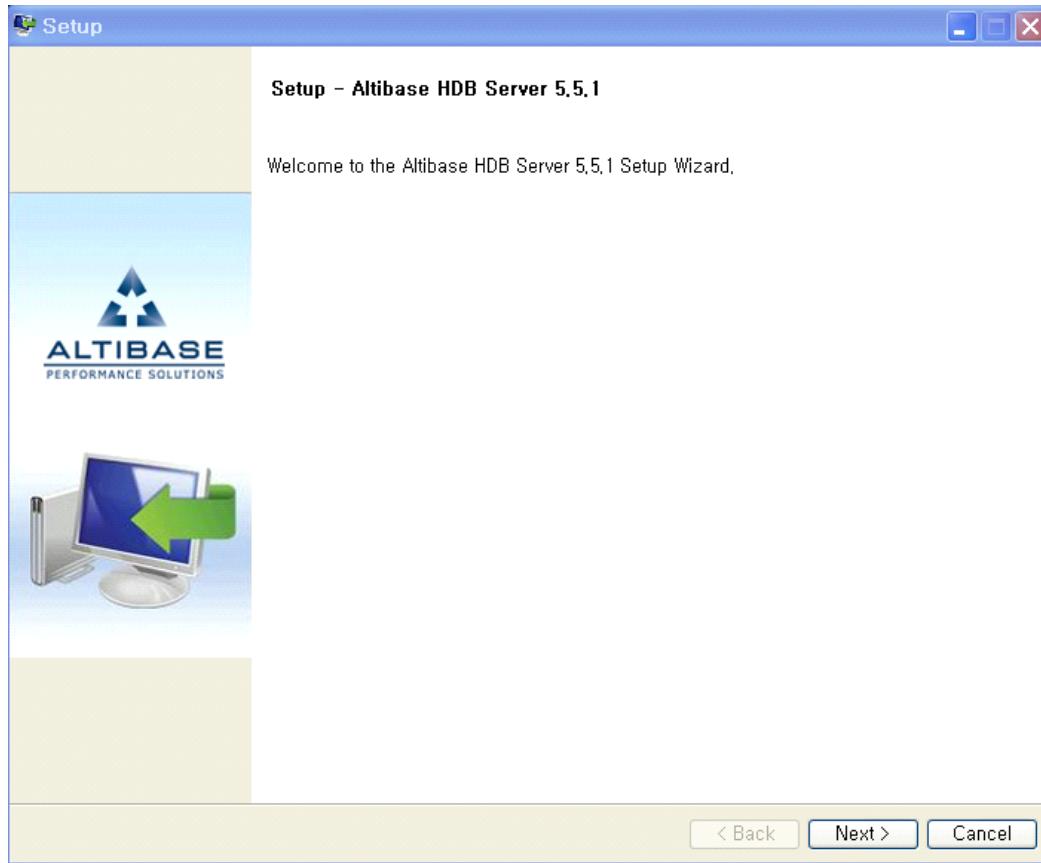
During this procedure, the ALTIBASE HDB Package Installer checks the following information about the server on which ALTIBASE HDB is to be installed:

- the operating system name and version
- the operating system mode (64-bit or 32-bit)

If the ALTIBASE HDB package does not match the above information, an error message is returned and the installation is aborted. Detecting problems with the system configuration at this early stage reduces the likelihood that problems will be encountered during installation.

### 2.3.2 Starting the ALTIBASE HDB Package Installer

After the system has been checked and deemed acceptable, the start panel appears as follows:



### 2.3.3 Checking System Parameters

The next panel shows the system kernel parameters that must be set and how to set them. Setting system kernel parameters has to be performed using the root account. Additionally, some systems may need rebooting after the kernel parameters have been set.

It is recommended that kernel parameters be set manually before proceeding to the next installation step. Alternatively, if setting them after installation is complete, please refer to the `$ALTIBASE_HOME/install/pre_install.sh` file.

## 2.3 Installing Altibase Products for Unix and Linux



It is first, necessary to set your system environment to ensure that ALTIBASE HDB will run properly.

Before installing ALTIBASE HDB, the kernel parameter values must be set using the root user account. The kernel parameter values may be modified after installation; however, they must be set prior to operating the ALTIBASE HDB. What follows is examples of system kernel parameter values on each system.

Ex) HPUX

[ Recommended Kernel Parameter Values ]

```
shmmmax = 2147483648
shmmni = 500
shmseg = 200
semmap = 1001
semnni = 1000
semnms = 4096
semnnu = 1000
semume = 1000
max_thread_proc = 600
maxusers = 64
dbc_min_pct = 5
dbc_max_pct = 5
maxdsiz = 1073741824
maxdsiz_64bit = 4294967296 # applies only to 32-bit applications

# maxdsiz_64bit
The ALTIBASE HDB server needs sufficient memory space to function properly.
Please set the value to 70% of system memory or greater.
```

```

# dbc_min_pct and dbc_max_pct
dbc_min_pct and dbc_max_pct were renamed filecache_min and filecache_max,
respectively, in HP version 11.31 and subsequent releases.

[ How to modify kernel parameter values ]

/usr/sbin/kmtune -s shmmmax=2147483648
/usr/sbin/kmtune -s shmmni=500
/usr/sbin/kmtune -s shmseg=200
/usr/sbin/kmtune -s semmap=1001
/usr/sbin/kmtune -s semmni=1000
/usr/sbin/kmtune -s semmns=4096
/usr/sbin/kmtune -s semmnu=1000
/usr/sbin/kmtune -s semume=1000
/usr/sbin/kmtune -s max_thread_proc=600
/usr/sbin/kmtune -s maxusers=64
/usr/sbin/kmtune -s dbc_min_pct=5
/usr/sbin/kmtune -s dbc_max_pct=5
/usr/sbin/kmtune -s maxdsiz=1073741824 # applies only to 32-bit applications
/usr/sbin/kmtune -s maxdsiz_64bit=4294967296

# maxdsiz_64bit
The Altibase HDB server needs sufficient memory space in order to function
properly.
Please set the value to 70% of system memory or greater.

# dbc_min_pct and dbc_max_pct
dbc_min_pct and dbc_max_pct were renamed filecache_min and filecache_max,
respectively, in HP version 11.31 and subsequent releases.

Ex) LINUX

[ How to modify kernel parameter values ]

echo 512 32000 512 512 > /proc/sys/kernel/sem
echo 872415232 > /proc/sys/kernel/shmall

# shmall
If it is desired to use the Altibase HDB in shared memory mode, the value of
'shmall' must be set. This value determines the maximum size of an Altibase
database.

Ex) AIX

[ Recommended Kernel Parameter Values ]

fsize = -1
data = -1
rss = -1

Maximum number of PROCESSES allowed per user
= greater than the value set using the Altibase property MAX_CLIENT

Size of the File System BufferCache
= less than 20% of total memory.

AIO = Available

AMO = AIX version 5.2 ML04 and above
      lru_file_repage=0
      strict_maxclient%=0
      = Versions prior to AIX version 5.2 ML04
      lru_file_repage=0

[ How to modify kernel parameter values ]

```

## 2.3 Installing Altibase Products for Unix and Linux

```
Edit /etc/security/limits file
Set fsize, data and rss variables.

Run 'smit'
 1) System Environments
    System Environments -> Change / Show Characteristics Of Operating System

    Change :
      Maximum number of PROCESSES allowed per user
      = bigger than the value set using the Altibase property
    MAX_CLIENT
      Size of the File System BufferCache
      = less than 20% of total memory.
  2) AIO
    Device -> Asynchronous I/O -> Posix Asynchronous I/O
    -> Configure Defined Asynchronous I/O
    Change : posix_aio0=Available

  3) AMO
    Performance & Resource Scheduling -> Tuning Kernel & Network Parameters

    -> Tuning Virtual Memory Manager, File System and Logical Volume
    Manager Params ->
      + List All Characteristics of Current Parameters --- Check
      + Change / Show Current Parameters --- Current Change
      + Change / Show Parameters for Next Boot --- Change upon Reboot

    The case of AIX version 5.2 ML04 and above :
      Change : lru_file_repage=0
      strict_maxclient%=0
    The case of Versions prior to AIX version 5.2 ML04 :
      Change : lru_file_repage=0
```

Ex) SunOS

[ Recommend Kernel Parameter Values ]

When the Altibase HDB uses the filesystem cache rather than direct I/O, the priority\_paging parameter (related to the Sun system's filesystem cache) must be set in order to prevent issues related to excessive memory use.  
(Applies only to SunOS version 5.7 and above.)

```
shminfo_shmmax = 2147483648
shminfo_shmmin = 1
shminfo_shmmni = 500
shminfo_shmseg = 200
seminfo_semmns = 8192
seminfo_semmnri = 5029
seminfo_semmssl = 2000
seminfo_semmmap = 5024
seminfo_semmnmu = 1024
seminfo_semopm = 512
seminfo_semume = 512
rlim_fd_max = 4096
rlim_fd_cur = 2048

[ How to modify kernel parameter values ]

= Solaris 10 =
cf) projadd -U [user name] -K "project.max-sem-ids=(priv,5029,deny)"
user.[user name]
cf) projmod -a -K "project.max-shm-memory=(priv, real memory max value,deny)"
user.[user name]
```

```

# Default Values for sem- and shm-related Parameters
projadd -U altibase -K "project.max-sem-ids=(priv,5029,deny)" user.altibase
projmod -a -K "project.max-shm-memory=(priv, real memory max value,deny)" user.altibase
projmod -a -K "process.max-sem-nsems=(priv,2000,deny)" user.altibase
projmod -a -K "process.max-sem-ops=(priv,512,deny)" user.altibase
projmod -a -K "project.max-shm-ids=(priv,1024,deny)" user.altibase

# Message Queue-related Parameters
projmod -a -K "project.max-msg-messages=(priv,100,deny)" user.altibase
projmod -a -K "project.max-msg-ids=(priv,100,deny)" user.altibase
projmod -a -K "process.max-msg-qbytes=(priv,1048576,deny)" user.altibase

= is not Solaris 10 =
Edit /etc/system file.

# Default Values for sem- and shm-related Parameters
set shmsys:shminfo_shmmax = 2147483648
set shmsys:shminfo_shmmin = 1
set shmsys:shminfo_shmmni = 500
set shmsys:shminfo_shmseg = 200
set semsys:seminfo_semmns = 8192
set semsys:seminfo_semmni = 5029
set semsys:seminfo_semmsl = 2000
set semsys:seminfo_semmmap = 5024
set semsys:seminfo_semmnu = 1024
set semsys:seminfo_semopm = 512
set semsys:seminfo_semume = 512
set rlim_fd_max = 4096
set rlim_fd_cur = 2048

# Message Queue-related Parameters
projmod -a -K "project.max-msg-messages=(priv,100,deny)" user.altibase
projmod -a -K "project.max-msg-ids=(priv,100,deny)" user.altibase
projmod -a -K "process.max-msg-qbytes=(priv,1048576,deny)" user.altibase

```

These values must be set in order for the Altibase HDB to operate properly. They must be set such that they are suitable for the system configuration.

### 2.3.4 Entering the Installation Directory

In the following Installation Directory panel, enter the ALTIBASE HDB home directory, that is, the directory in which ALTIBASE HDB is to be installed.

## 2.3 Installing Altibase Products for Unix and Linux



If an ALTIBASE HDB has already been installed in the directory specified by the user, a dialog box appears with a warning message. In this case, it is necessary to either choose another directory or first uninstall the product inside the specified directory.



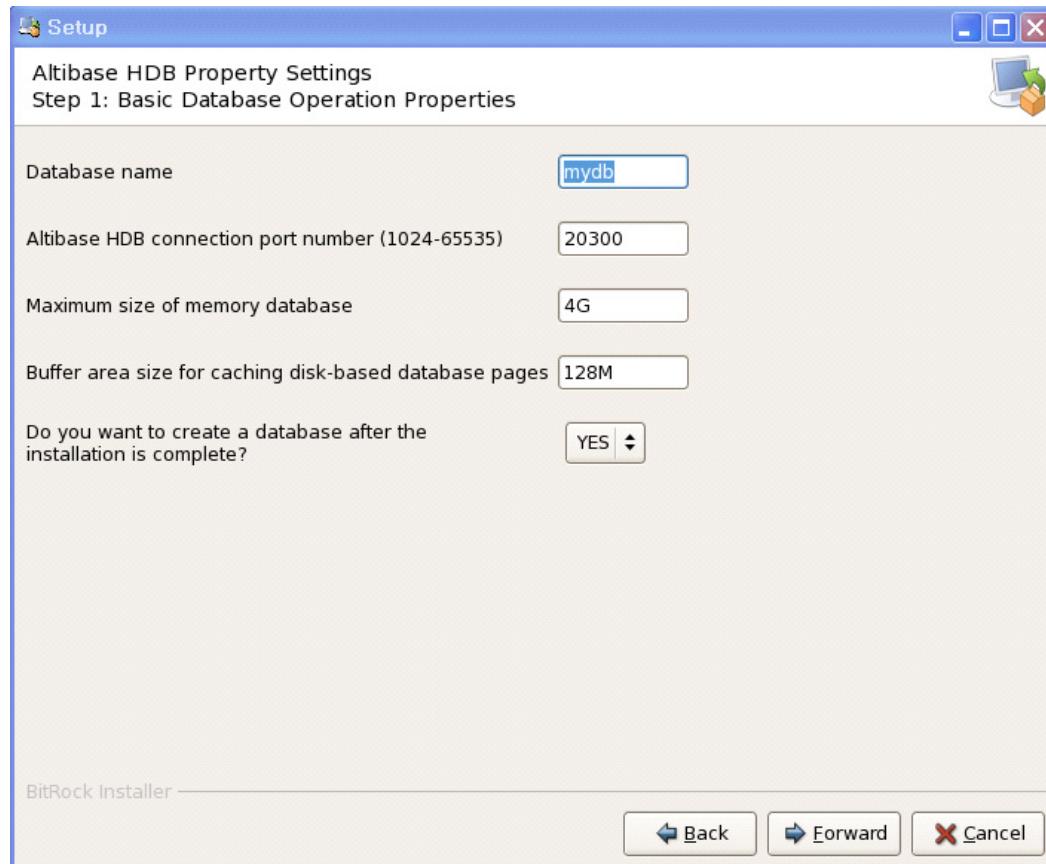
### 2.3.5 Setting ALTIBASE HDB Properties

The ALTIBASE HDB properties are set in the following three steps.

1. Step 1
  - Database Name

- Connection Port Number
- Maximum size of Memory Database
- Buffer Area Size
- Specify whether or not to generate an SQL script for creating a new database (that is, whether or not to perform step 2)

If YES is selected, step 2 is performed. Otherwise, step 2 is skipped. Regardless of whether an SQL script is generated using this procedure, a new database can be created using the following command: `server create [DB Character-set] [National Character-set]`



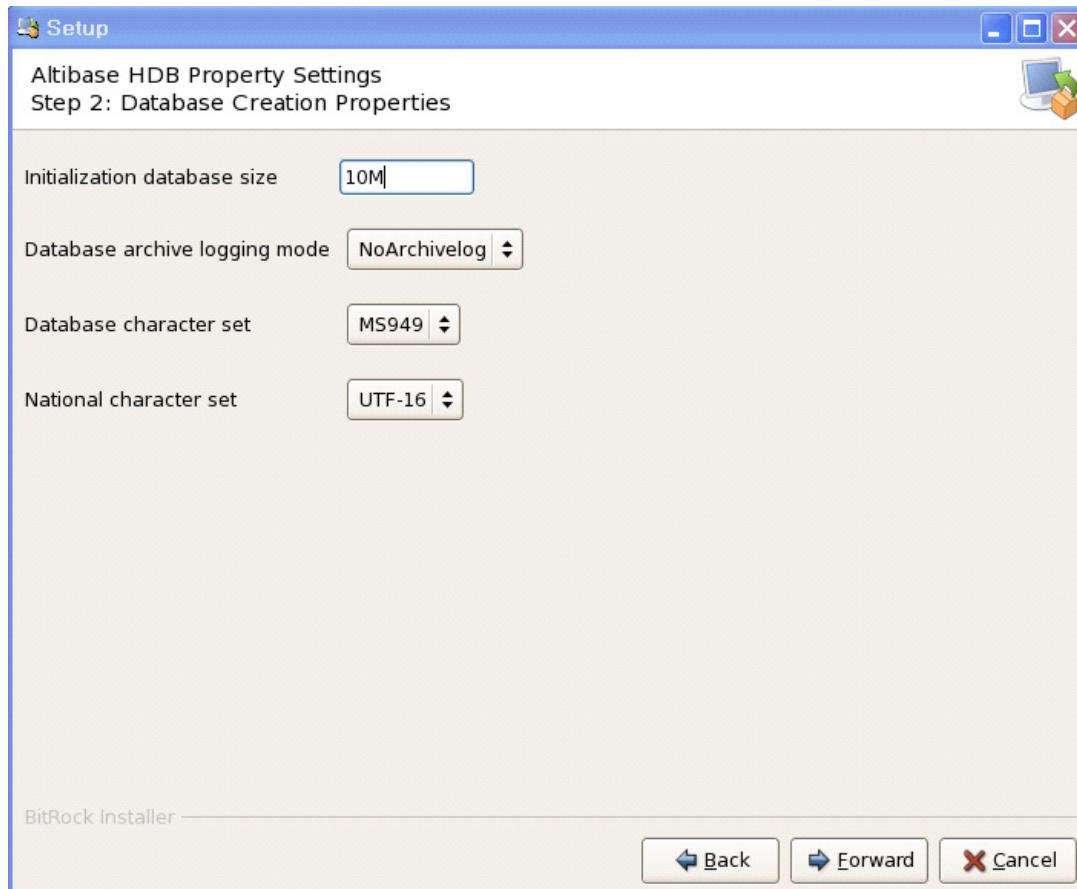
## 2. Step 2

The SQL script generated in step 2 will be included in the `$ALTIBASE_HOME/install/post_install.sh` file.

- Initial Database Size
- Database Archive Logging Mode
  - Noarchivelog
  - Archivelog
- Database Character Set
  - MS949
  - US7ASCII
  - KO16KSC5601

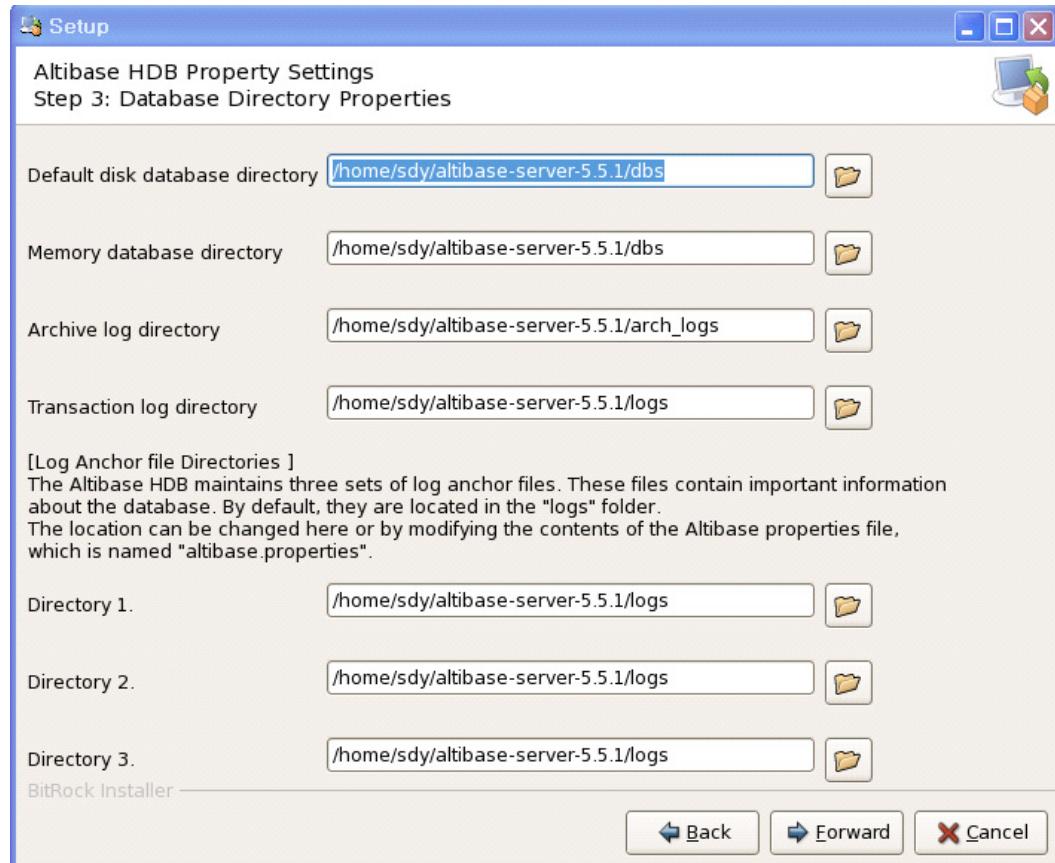
## 2.3 Installing Altibase Products for Unix and Linux

- BIG5
- GB231280
- UTF-8
- SHIFT-JIS
- EUC-JP
- National Character Set
  - UTF-16
  - UTF-8



### 3. Step 3

- Default Disk Database Directory
- Memory Database Directory
- Archive Log Directory
- Transaction Log Directory

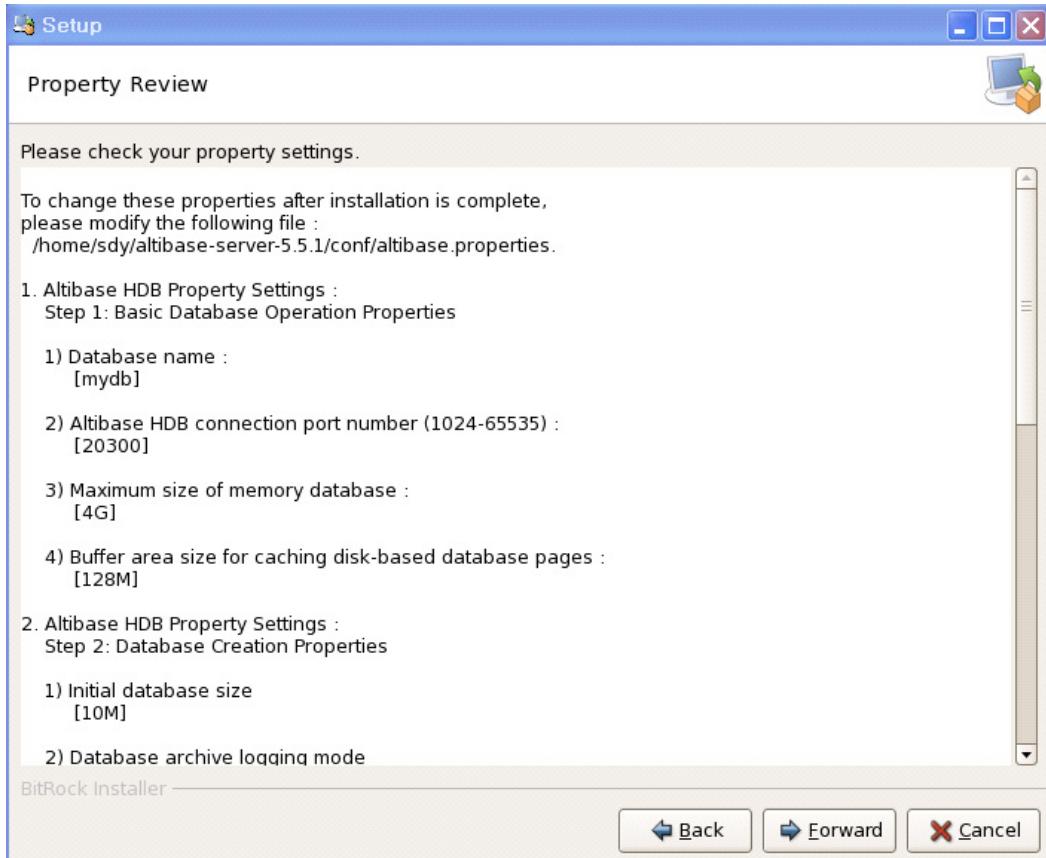


To set the values of properties that are not included in these steps, or to later change the values of the properties that have already been set in step 1 or step 3, edit the \$ALTIBASE\_HOME/conf/altibase.properties file manually.

### 2.3.6 Confirming the ALTIBASE HDB Properties

The next panel shows the values of the properties that have been set in the previous procedure.

## 2.3 Installing Altibase Products for Unix and Linux



Ex)

To change these properties after installation is complete, please modify the following file: `/home1/sdy/altibase-server-5.5.1/conf/altibase.properties`.

1. ALTIBASE HDB Property Settings:  
Step 1: Basic database operation properties
  - 1) Database name:  
[mydb]
  - 2) ALTIBASE HDB connection port number (1024-65535) :  
[20300]
  - 3) Maximum size of memory database:  
[2G]
  - 4) Buffer area size for caching disk-based database pages:  
[128M]
2. ALTIBASE HDB Property Settings:  
Step 2: Database creation properties
  - 1) Initial database size  
[10M]
  - 2) Database archive logging mode  
[noarchivelog]
  - 3) Database character set

[MS949]

4) National character set  
[UTF16]

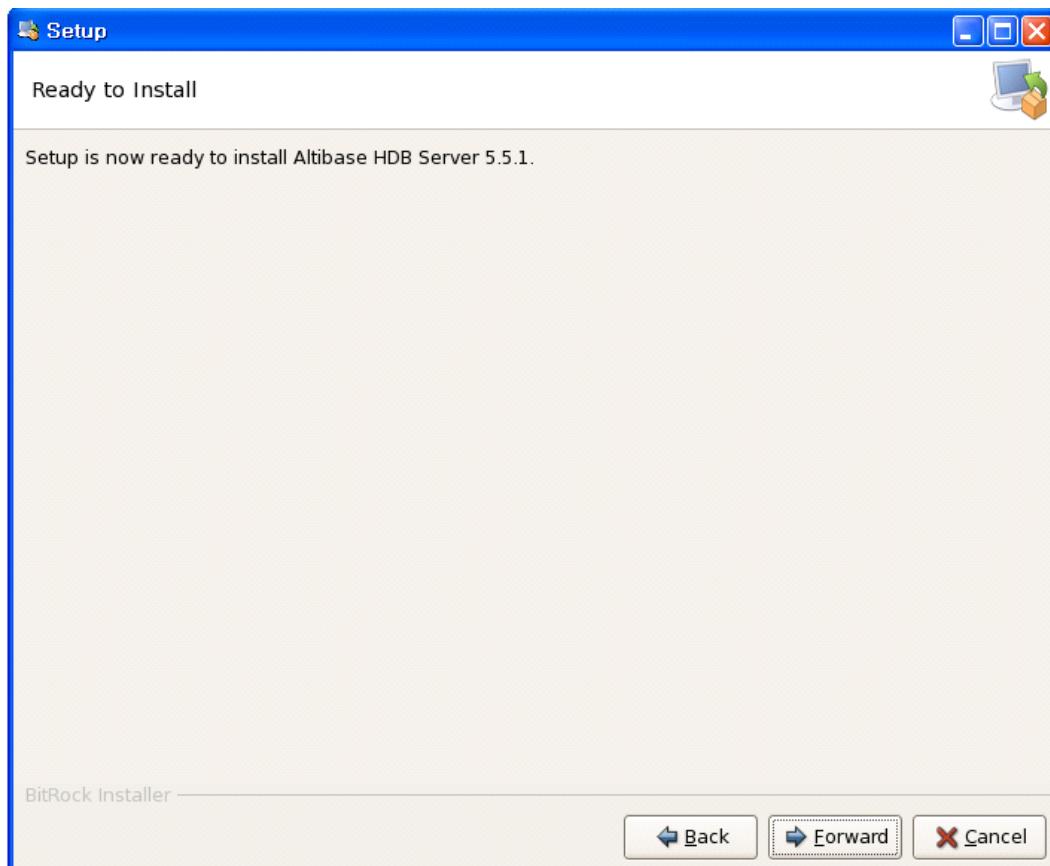
3. ALTIBASE HDB Property Settings:  
Step 3: Database Directory properties

The database will not operate properly if one or more of these drectories are removed

- 1) Disk Database Directory:  
[/home1/sdy/altibase-server-5.5.1/dbs]
- 2) Memory Database Directory:  
[/home1/sdy/altibase-server-5.5.1/dbs]
- 3) Archive Log Directory:  
[/home1/sdy/altibase-server-5.5.1/arch\_logs]
- 4) Transaction Log Directory:  
[/home1/sdy/altibase-server-5.5.1/logs]
- 5) Log Anchor file Directories:  
Directory 1 :  
[/home1/sdy/altibase-server-5.5.1/logs]  
  
Directory 2 :  
[/home1/sdy/altibase-server-5.5.1/logs]  
  
Directory 3 :  
[/home1/sdy/altibase-server-5.5.1/logs]

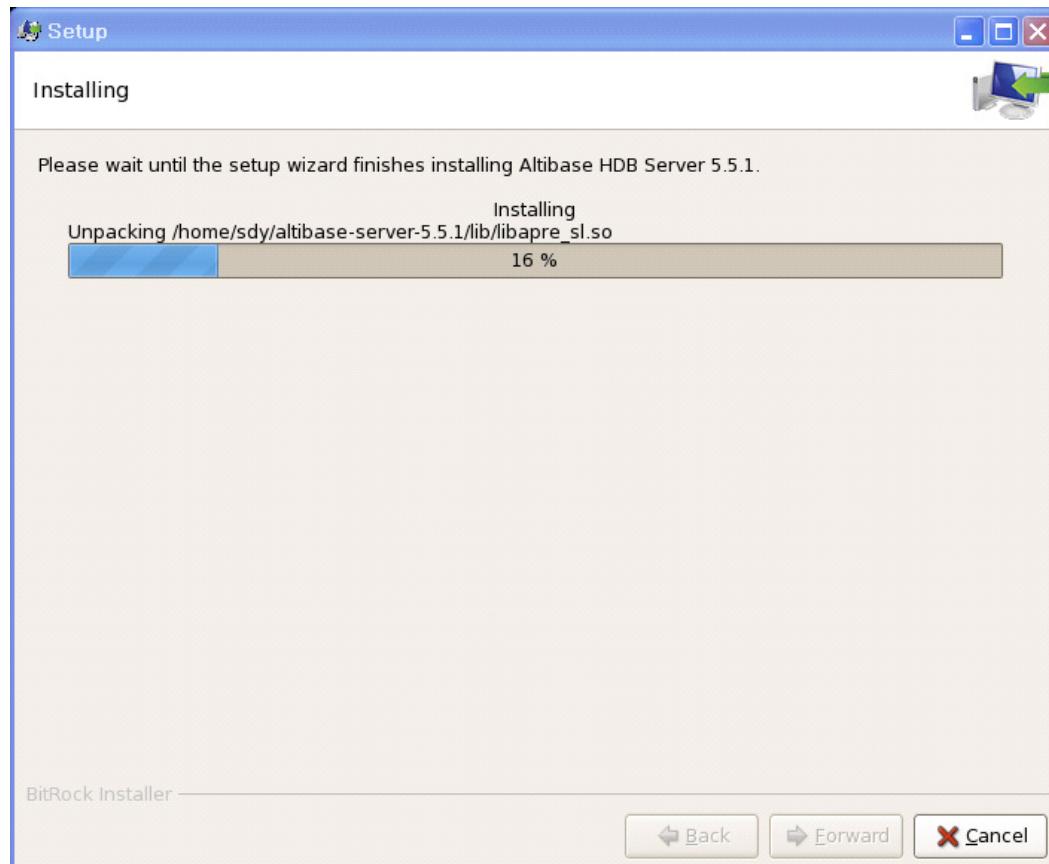
After checking these values, clicking "Forward" displays the "Ready to Install" panel shown below:

## 2.3 Installing Altibase Products for Unix and Linux



Click "Forward" to perform the installation.

### 2.3.7 Installing ALTIBASE HDB



After installation is complete, the properties are written to the `altibase.properties` file, and an SQL script for creating a new database is included in the `post_instal.sh` file. These tasks are performed without displaying a GUI.

### 2.3.8 Providing ALTIBASE HDB License Information

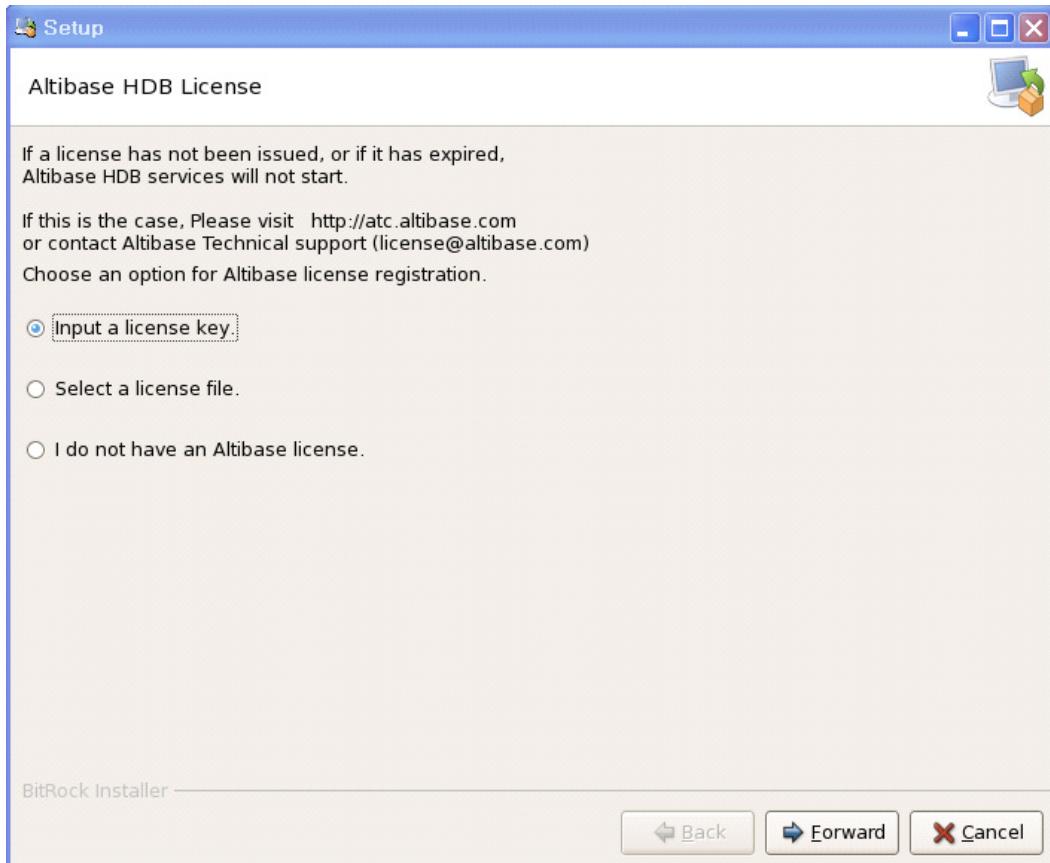
In this procedure, the license key is registered. If no license file exists, ALTIBASE HDB cannot be started.

The ALTIBASE HDB Package Installer supports the following two ways of providing a license key:

- entering a license key directly
- selecting a file containing license key information

If no license key has been obtained yet, select “No license file exists”, and later obtain a license key from the Altibase Technical Center (<http://atc.altibase.com>) or Altibase Technical Support ([license@altibase.com](mailto:license@altibase.com)). When you are issued a new license key, copy the new license file to your `$ALTIBASE_HOME/conf` directory.

```
%cp license $ALTIBASE_HOME/conf/
```



### 2.3.9 The Quick Settings Guide of ALTIBASE HDB

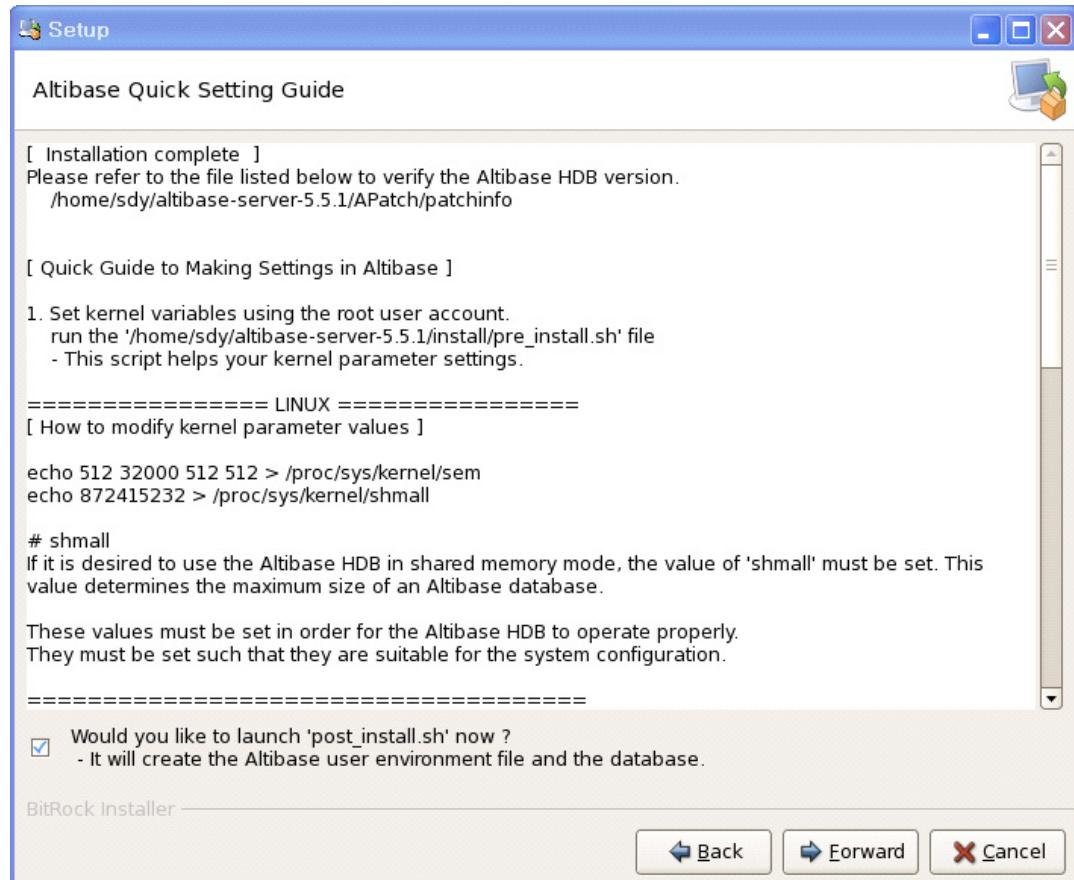
The Quick Settings Guide panel of ALTIBASE HDB shows how to start up ALTIBASE HDB after it has been installed successfully. The ALTIBASE HDB Package Installer provides the following two shell scripts to enable users to easily set system kernel parameters and environment variables.

- `$ALTIBASE_HOME/install/pre_install.sh`

This script covers the minimum set of essential system kernel parameters, suggests values for them, and explains how to set them.

- `$ALTIBASE_HOME/install/post_install.sh`

This script includes shell scripts for setting environment variables and a SQL script for creating a new database (if step 2 was performed in the [Setting ALTIBASE HDB Properties](#) procedure). If the check box is checked in the next panel, the ALTIBASE HDB Package Installer will run this shell script automatically. Otherwise, this shell script can be run manually by the user after installation is complete. If the check box is checked, a database will be created, which will take additional time.



## 2.3 Installing Altibase Products for Unix and Linux

```
[ Installation complete ]
Please refer to the file listed below to verify the Altibase HDB version.
/home/sdy/altibase-server-5.5.1/APatch/patchinfo
[ Quick Guide to Making Settings in Altibase ]

1. Set kernel variables using the root user account.
   run the '/home/sdy/altibase-server-5.5.1/install/pre_install.sh' file
   - This script helps your kernel parameter settings.

=====
[ How to modify kernel parameter values ]

echo 512 32000 512 512 > /proc/sys/kernel/sem
echo 872415232 > /proc/sys/kernel/shmall

# shmall
If it is desired to use the Altibase HDB in shared memory mode, the value
of 'shmall' must be set. This value determines the maximum size of an Altibase
database.

These values must be set in order for the Altibase HDB to operate properly.
They must be set such that they are suitable for the system configuration.

=====
2. Provide a license.
   Please rename and locate the license file as shown below.
   /home/sdy/altibase-server-5.5.1/conf/license

   If no license file has been issued, or if the license file has expired,
Altibase HDB services will not start.
   In this case, please visit http://atc.altibase.com or contact Altibase
Technical Support (license@altibase.com)

3. Configure user environment variables (using the user account with which
Altibase was installed).
   Run the '/home/sdy/altibase-server-5.5.1/install/post_install.sh' file
under the account with which Altibase was installed.

   This script performs necessary post-installation configuration.

   1) Create the Altibase user environment file and apply to the user profile.
      (/home/sdy/altibase-server-5.5.1/conf/altibase_user.env)
   2) Create a database.

   If you selected 'YES' in response to the question about whether to
create a database after installation, at "Altibase Property setting step
1".

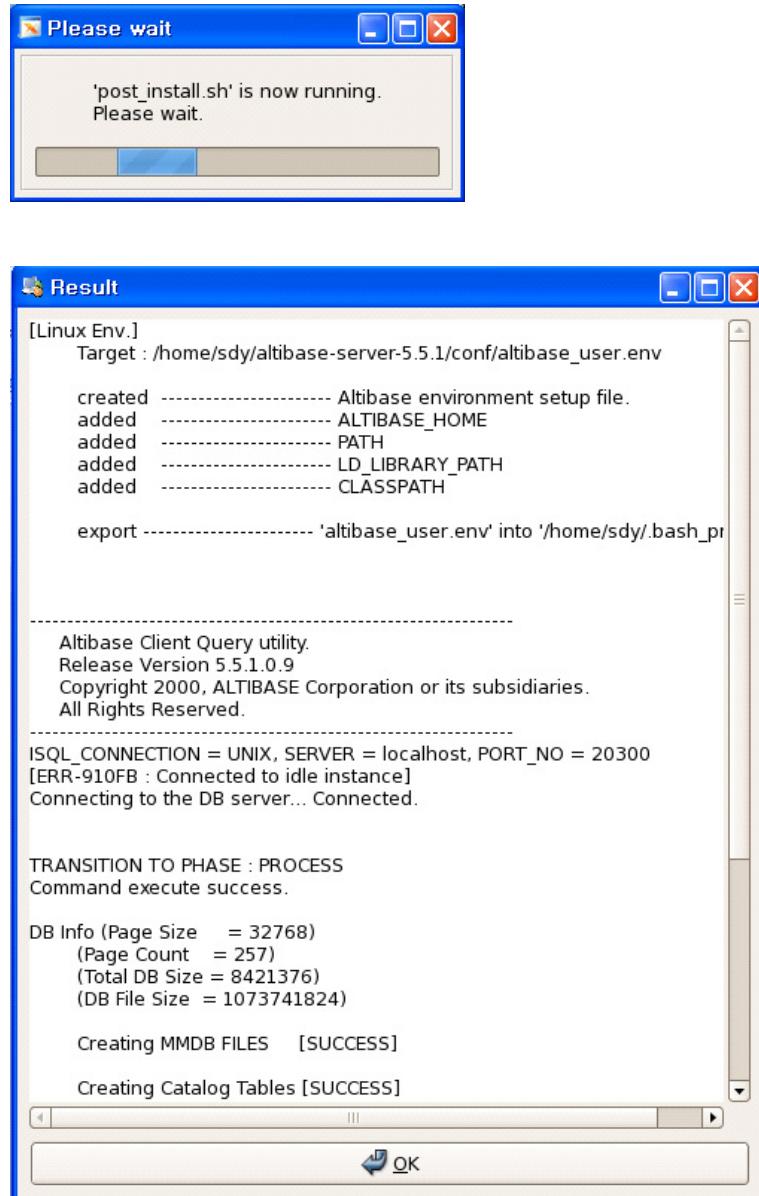
   If you selected 'NO' in response to this question,
you need to create a database manually.

   shell> server create [DB Character Set] [National Character Set]

4. Start up and Shut down the server
   shell> server start
   shell> server stop

5. Connect to the database using iSQL
   shell> isql -s 127.0.0.1 -u SYS -p MANAGER
```

The following dialog box shows the result of running the post\_install.sh shell script.



In the above procedure, user-specific environment variables are stored in the \$ALTIBASE\_HOME/conf/altibase\_user.env file, and the command for loading altibase\_user.env is stored in the default script, such as .bash\_profile, which is used as a login shell.

In order to invoke the login shell, perform one of the following actions:

- log out and then log in again
- . ~/.bash\_profile
- source ~/.bash\_profile

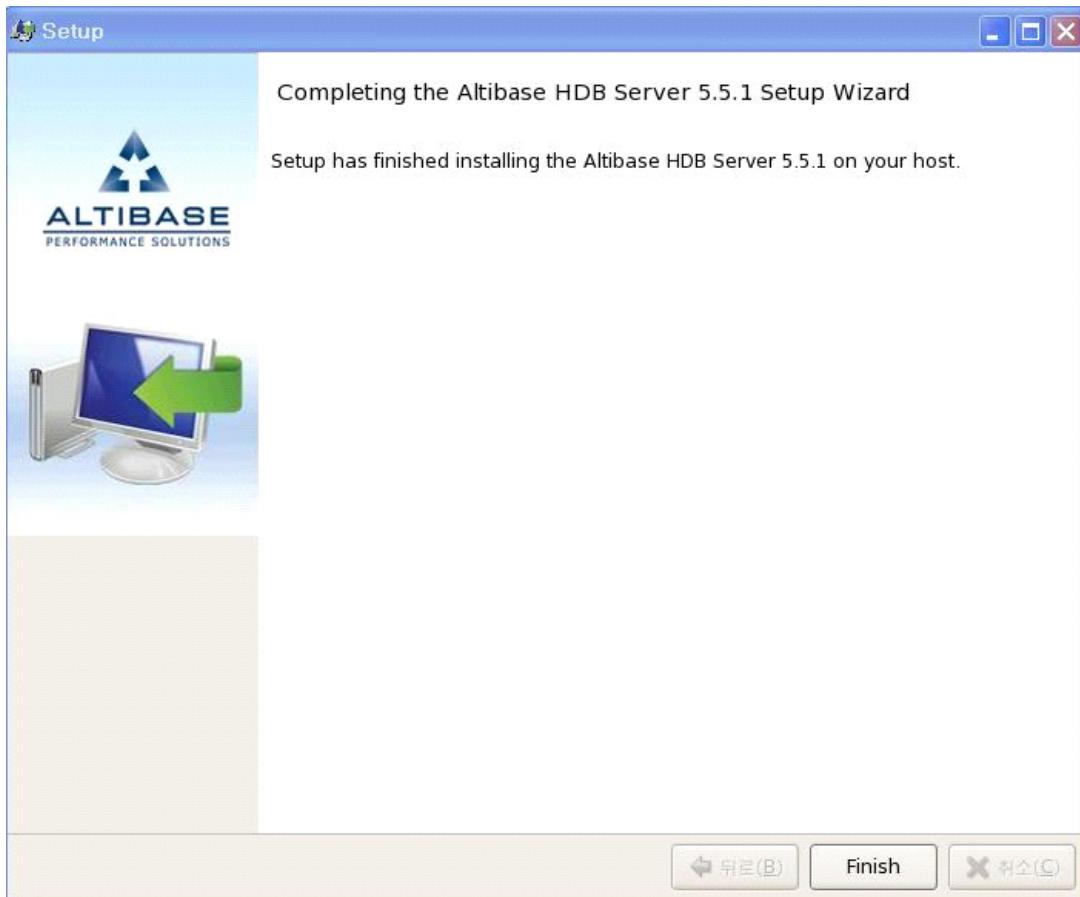
Ex) altibase\_user\_env File

## 2.3 Installing Altibase Products for Unix and Linux

```
ALTIBASE_HOME=/home/sdy/altibase-server-5.5.1;export ALTIBASE_HOME  
PATH=${ALTIBASE_HOME}/bin:${PATH};export PATH  
LD_LIBRARY_PATH=${ALTIBASE_HOME}/lib:${LD_LIBRARY_PATH};export  
LD_LIBRARY_PATH  
CLASSPATH=${ALTIBASE_HOME}/lib/Altibase.jar:${CLASSPATH};export CLASSPATH  
  
Ex) .bash_profile  
# ALTIBASE_ENV  
. /home/sdy/altibase-server-5.5.1/conf/altibase_user.env
```

### 2.3.10 Finishing Installation

After successful installation, the following panel appears.



### 2.3.11 Post-installation Tasks

After successful installation, the following tasks may be required.

1. If system kernel parameters were not set during installation, set the parameters manually. Please refer to the \$ALTIBASE\_HOME/install/pre\_install.sh file.
2. If there is no license key, obtain a license key. Please refer to [2.3.8 Providing ALTIBASE HDB License Information](#).

3. Run the `$ALTIBASE_HOME/install/post_install.sh` script.
4. In order to invoke a login shell, perform the one of the following actions:
  - log out and then log in again
  - `. ~/bash_profile`
  - `source ~/bash_profile`

## 2.4 Installing Altibase Products for Windows

The following sections describe how to install Altibase products.

- [Checking the Environment Before Installation](#)
- [Starting the ALTIBASE HDB Package Installer](#)
- [Verifying the System Environment](#)
- [Entering the Installation Directory](#)
- [Setting ALTIBASE HDB Properties](#)
- [Confirming the ALTIBASE HDB Properties](#)
- [Installing the ODBC Driver of ALTIBASE HDB](#)
- [Installing Altibase Products](#)
- [Providing ALTIBASE HDB License Information](#)
- [The Quick Settings Guide of ALTIBASE HDB](#)
- [Registering ALTIBASE HDB as a Windows Service](#)
- [Finishing Installation](#)
- [Post-installation Tasks](#)

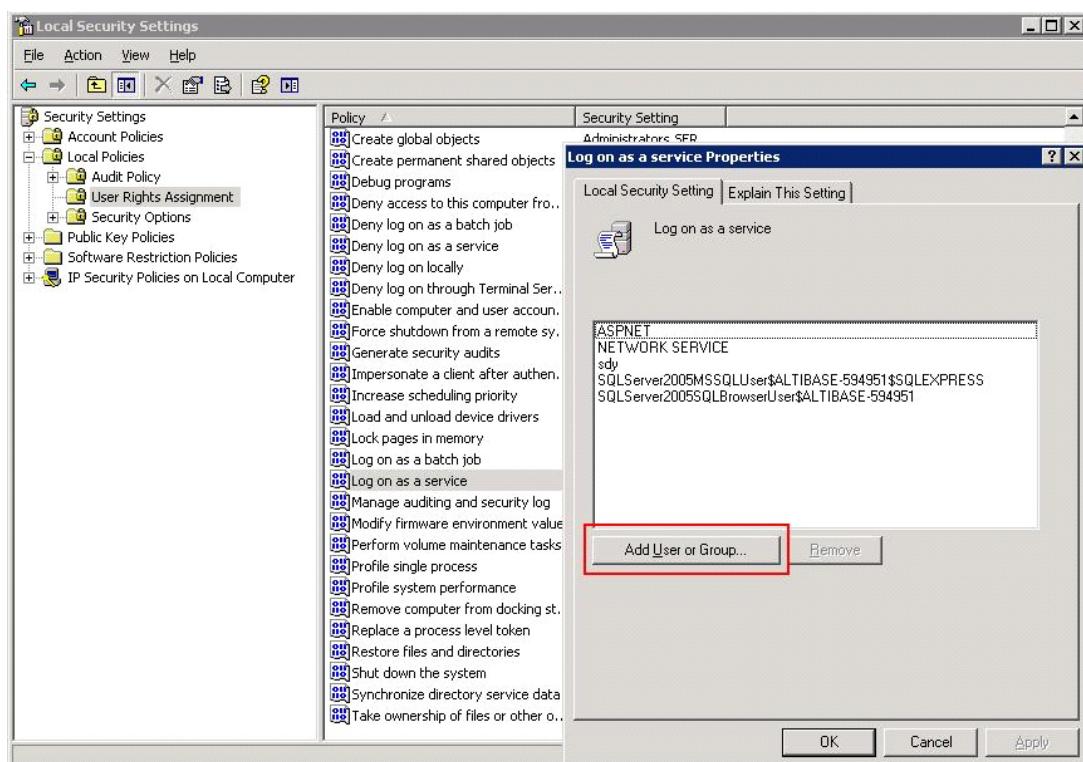
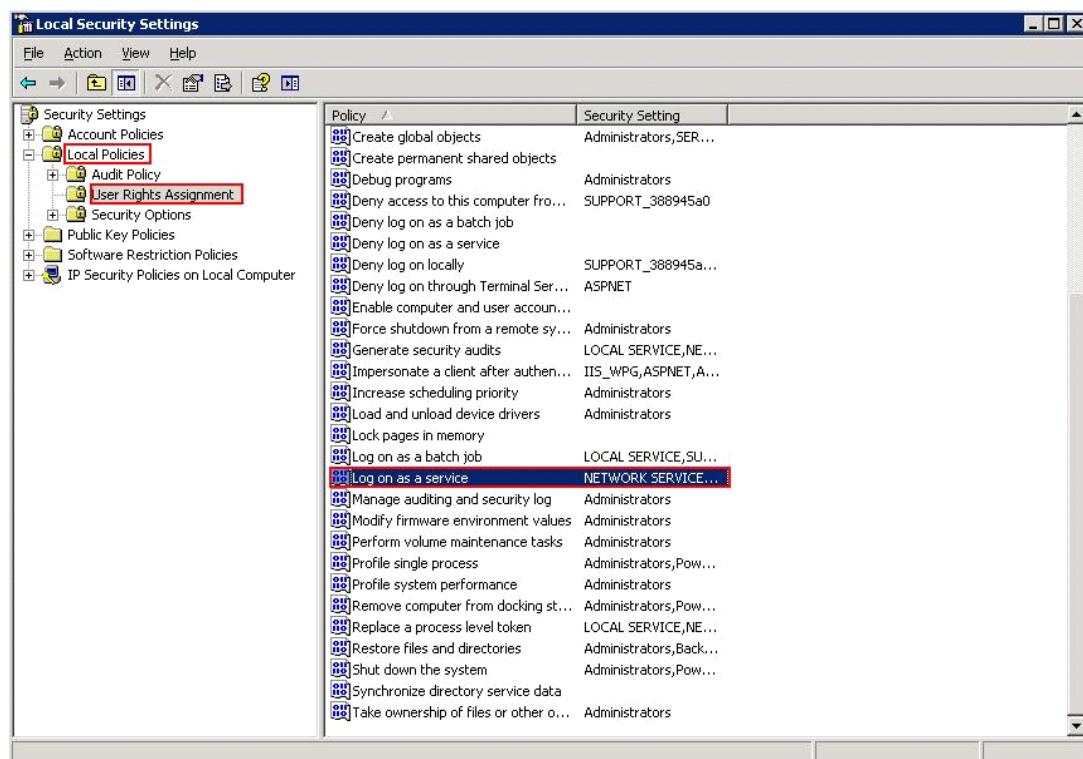
### 2.4.1 Checking the Environment Before Installation

When installing Altibase products for Windows using the ALTIBASE HDB Package Installer, it is necessary to be logged on to Windows as an administrator. The ALTIBASE HDB Package Installer registers the ODBC driver of ALTIBASE HDB and registers the ALTIBASE HDB server as a Windows service and starts the service while installing the ALTIBASE HDB. Only administrators can register the ODBC driver, register the process as a Windows service, and start the service.

If the attempt to start the service fails and the “The service did not start due to a logon failure.” error message is shown, check whether the user account has the right to log on a service as follows:

1. Launch the Group Policy Editor (“Start --> Run --> type ‘gpedit.msc’ ”)
2. In the left pane, expand “Computer Configuration --> Windows Settings --> Security Settings --> Local Policies”, and then click “User Rights Assignment”.
3. In the right pane, double-click “Log on as a service”.
4. Confirm that the user account you are using is on the list. If this account is not listed here, add the user to the policy, and then click “OK”.
5. Close the “Local Security Settings” dialog.

## 2.4 Installing Altibase Products for Windows

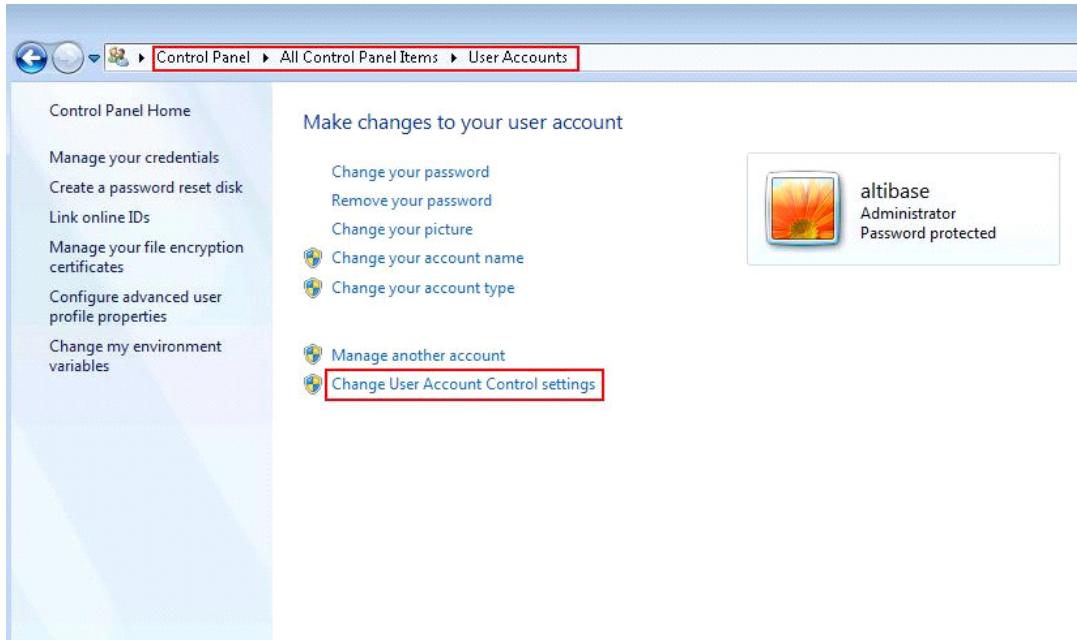


On Windows Vista and Windows 7, it is somewhat difficult to create a database and register ALTI-BASE HDB as a service due to the enhanced security features. In order to avoid these problems, it is

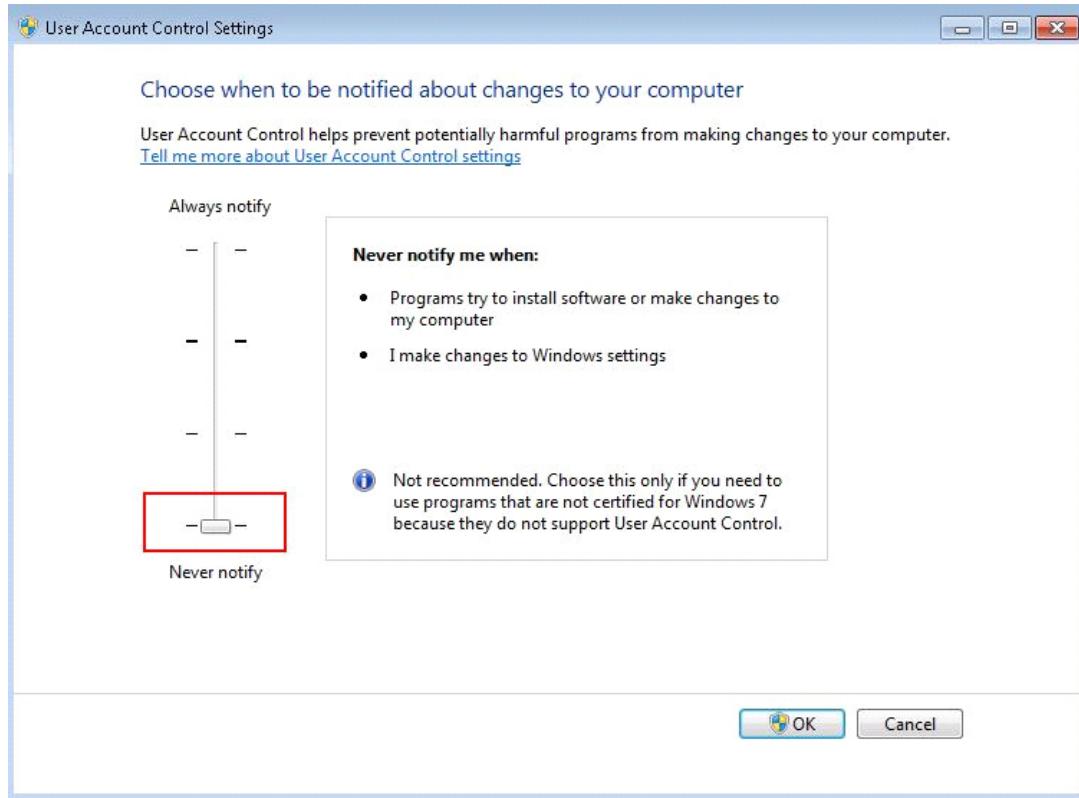
## 2.4 Installing Altibase Products for Windows

recommended that the User Account Control (UAC) settings be changed before installation as follows: (For detailed information about UAC, please refer to <http://support.microsoft.com/kb/922708/en-us>.)

1. Open “Control Panel\User Accounts\Change User Account Control settings”.



2. Disable notification by dragging the slider all the way down to the bottom ("Never notify").



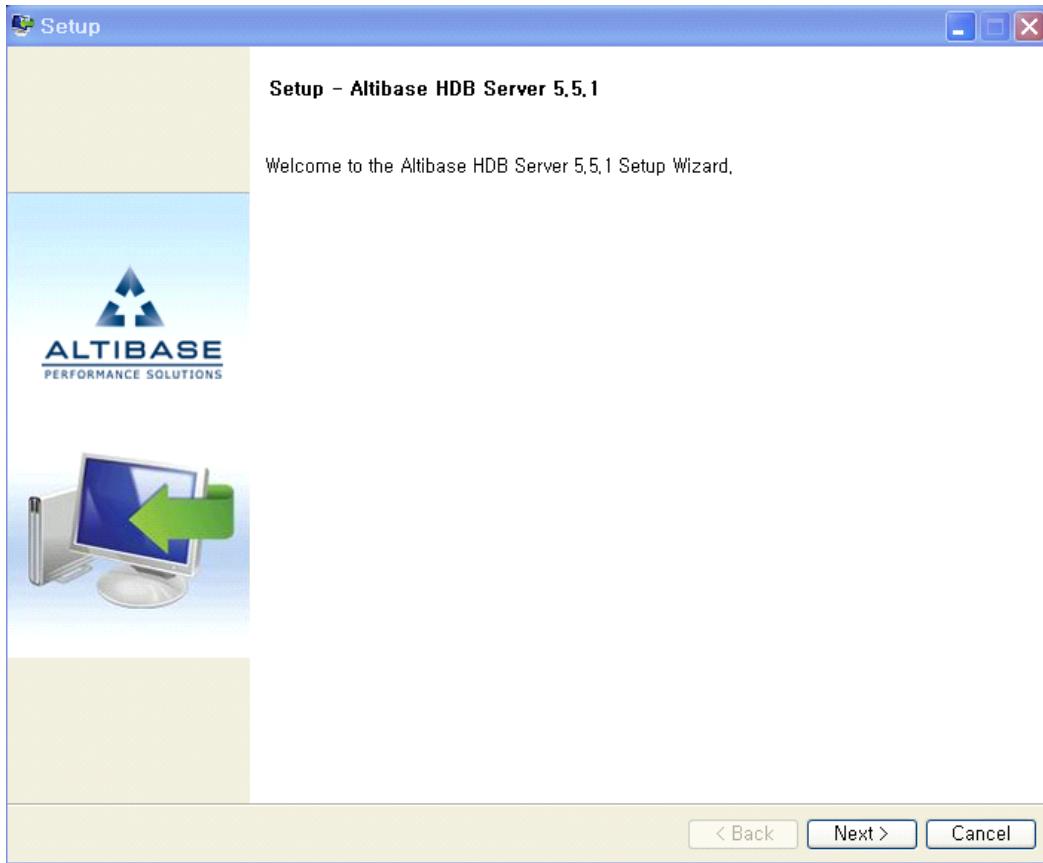
3. Restart Windows (Vista or 7).
4. Run the ALTIBASE HDB Package Installer.

If you did not create a database or register ALTIBASE HDB as a service during installation, a UAC prompt may appear when performing these tasks after installation. To prevent this prompt from appearing during such tasks, follow these steps:

1. Right-click the "Database Creation" and "Service Registration" executable files (or icons), and then click "Run as administrator".  
*Note: If using the command prompt to execute the files, the command prompt window must be run with the "Run as administrator" option.*
2. When you are prompted for an administrator password or for confirmation, type the administrator password or click Continue.

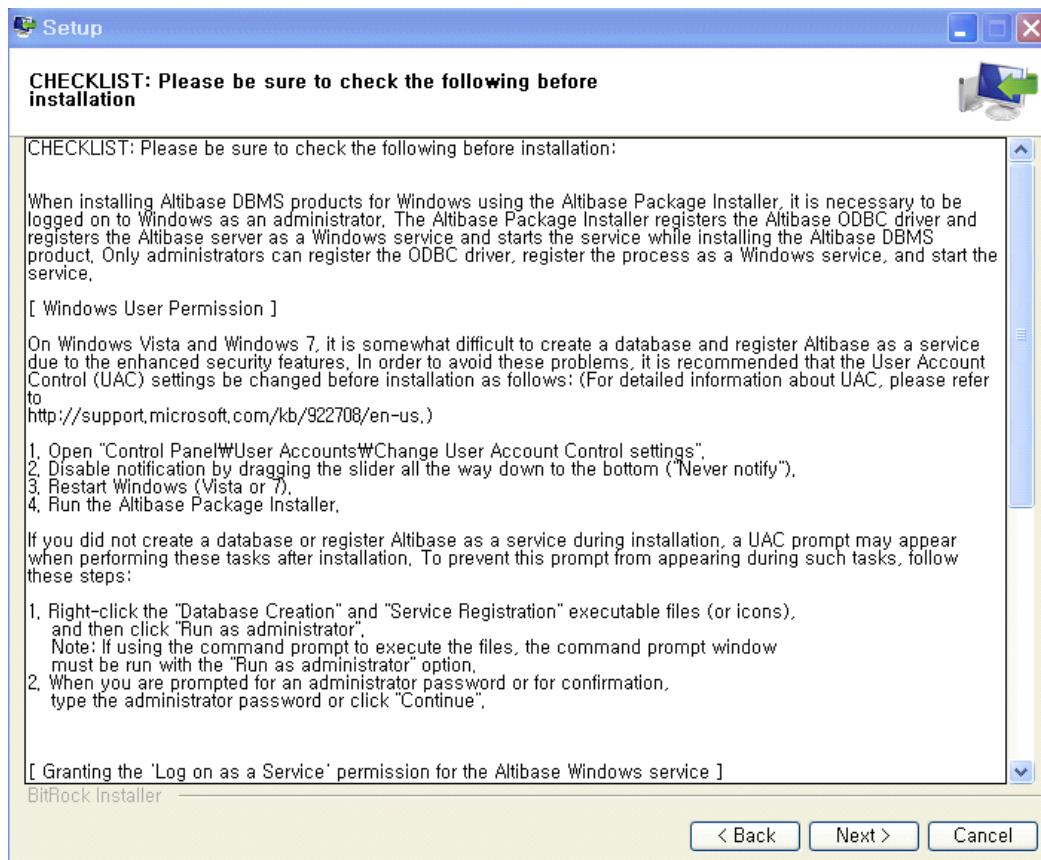
## 2.4.2 Starting the ALTIBASE HDB Package Installer

After the system has been checked and deemed acceptable, the start panel appears as follows:



### 2.4.3 Verifying the System Environment

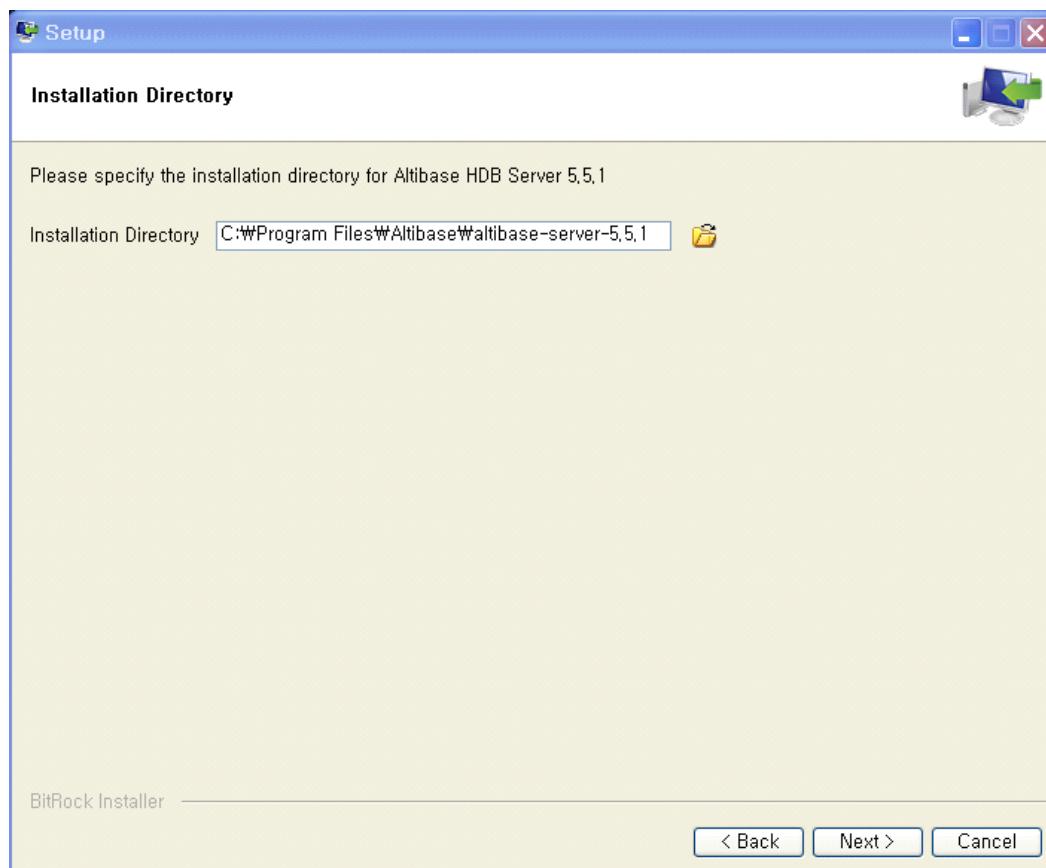
The next panel shows the “Before Installation” guide, which was explained above.



#### 2.4.4 Entering the Installation Directory

In the following Installation Directory panel, enter the ALTIBASE HDB home directory, in which ALTIBASE HDB is to be installed.

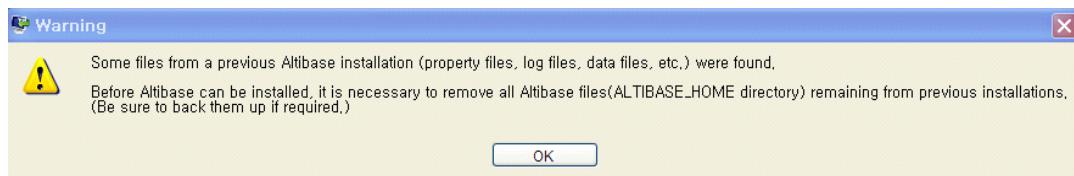
## 2.4 Installing Altibase Products for Windows



If an ALTIBASE HDB has already been installed in the directory specified by the user, a dialog box appears with a warning message. In this case, it is necessary to either choose another directory or first uninstall the product inside the specified directory.



If an ALTIBASE HDB was previously installed in the directory specified by the user, and was then subsequently uninstalled, the following warning message dialog box appears. This warning occurs due to the presence of files that were not removed during uninstallation. These files may be located in the dbs or logs directories. If you ignore this warning and install the new product, the installation will proceed without error, but an attempt to create a new database will fail. It will be possible to start ALTIBASE HDB with the previous db files in place only if the new version of ALTIBASE HDB is compatible with these files. In order to create a new database, it will first be necessary to delete all files remaining in the dbs and logs directories.



## 2.4.5 Setting ALTIBASE HDB Properties

The ALTIBASE HDB properties are set in the following three steps.

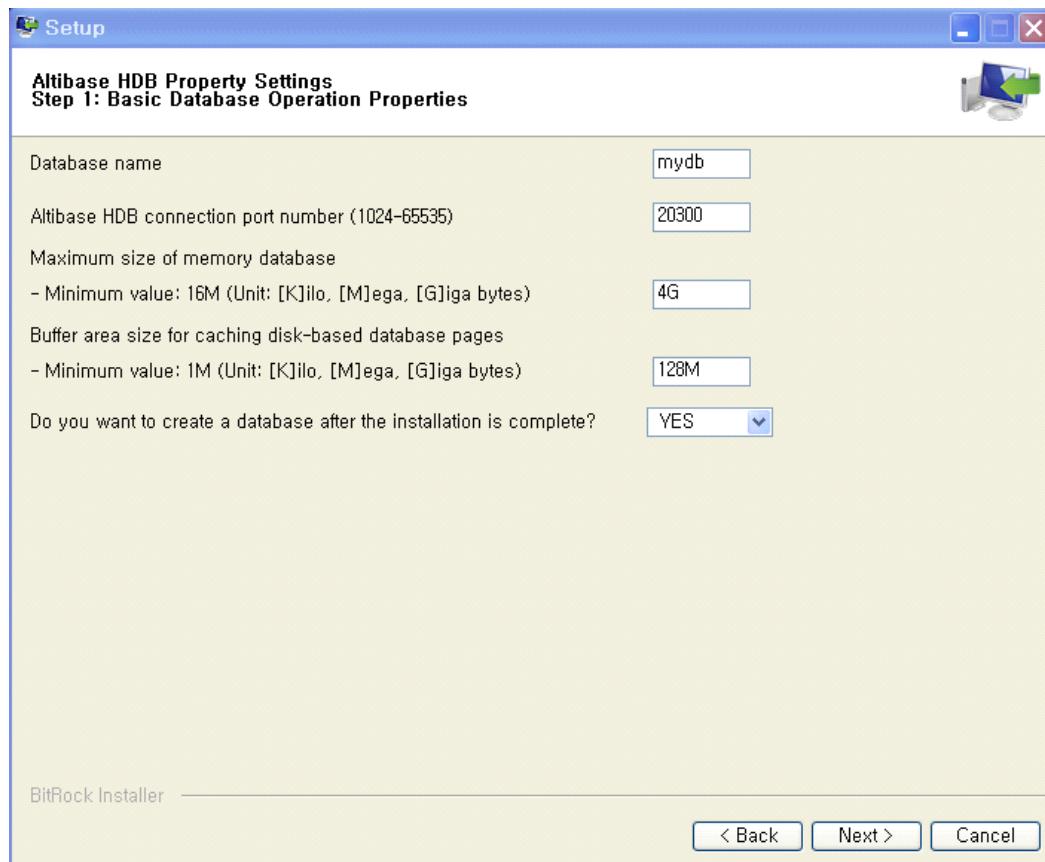
### 1. Step 1

- Database Name
- Connection Port Number
- Maximum size of memory database
- Buffer area size
- Specify whether or not to generate an SQL script for creating a new database (whether or not to perform step 2)

If YES is selected, step 2 is performed. Otherwise, step 2 is skipped. Regardless of whether an SQL script is generated using this procedure, a new database can be created using the following command:

```
server create [DB Character-set] [National Character-set]
```

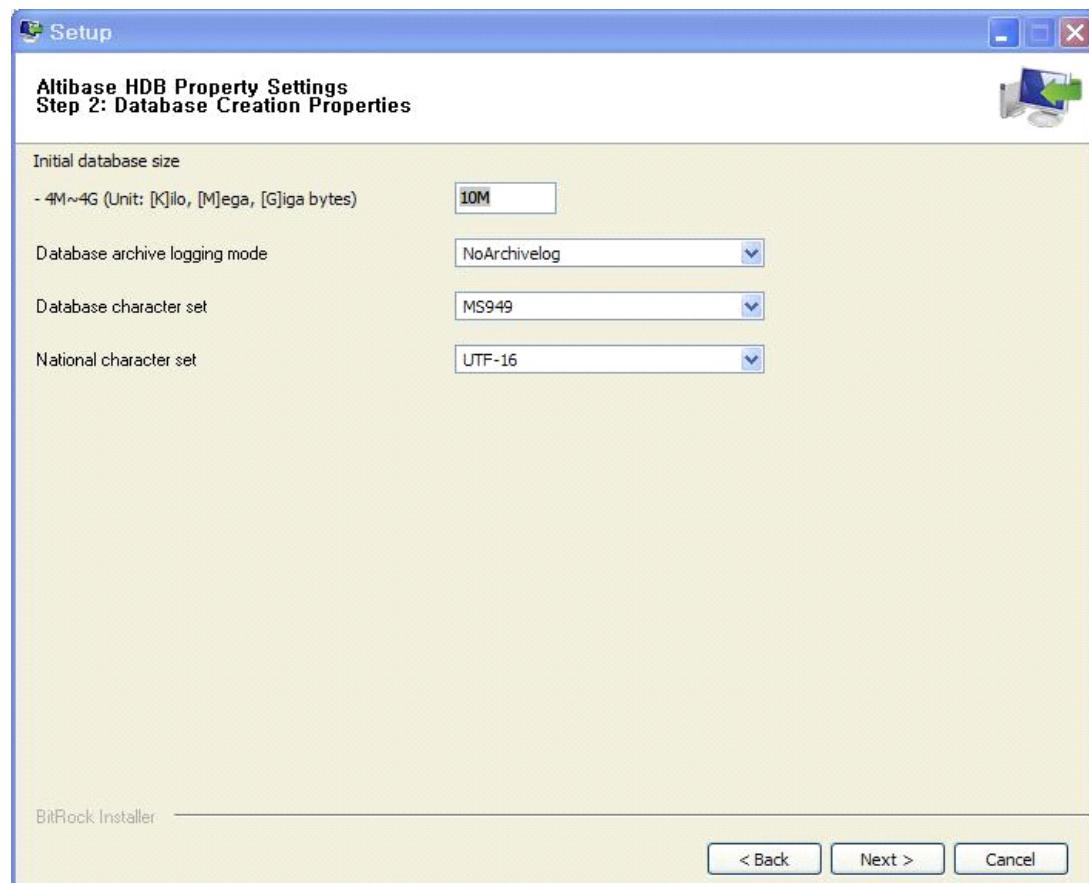
## 2.4 Installing Altibase Products for Windows



### 2. Step 2

The SQL script generated in step 2 will be included in the \$ALTIBASE\_HOME/install/post\_install.sh file.

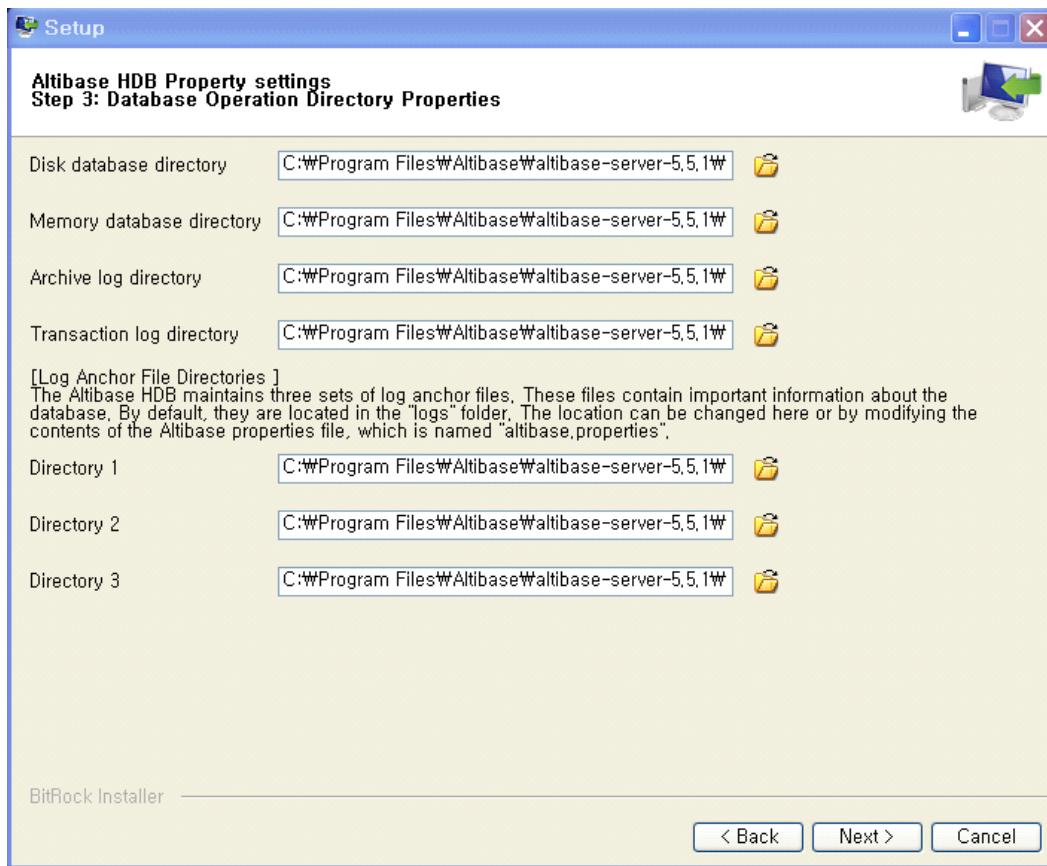
- Initial Database Size
- Database archive logging mode
  - NoArchivelog
  - Archivelog
- Database Character Set
  - MS949
  - US7ASCII
  - KO16KSC5601
  - BIG5
  - GB231280
  - UTF-8
  - SHIFT-JIS
  - EUC-JP
- National Character Set
  - UTF-16
  - UTF-8



### 3. Step 3

- Default Disk Database Directory
- Memory Database Directory
- Archive Log Directory
- Transaction Log directory

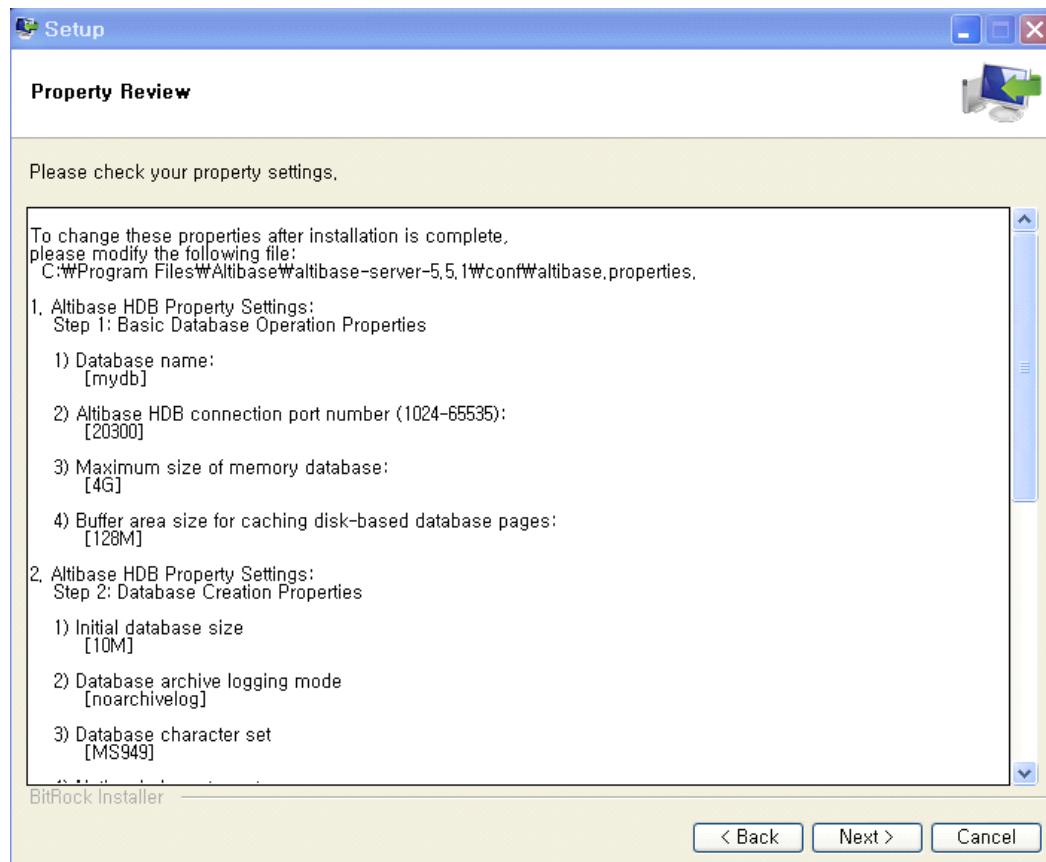
## 2.4 Installing Altibase Products for Windows



To set the values of properties that are not included in these steps, or to later change the values of the properties that have already been set in step 1 or step 3, edit the \$ALTIBASE\_HOME/conf/altibase.properties file manually.

### 2.4.6 Confirming the ALTIBASE HDB Properties

The next panel shows the values of the properties that were set in the previous procedure.



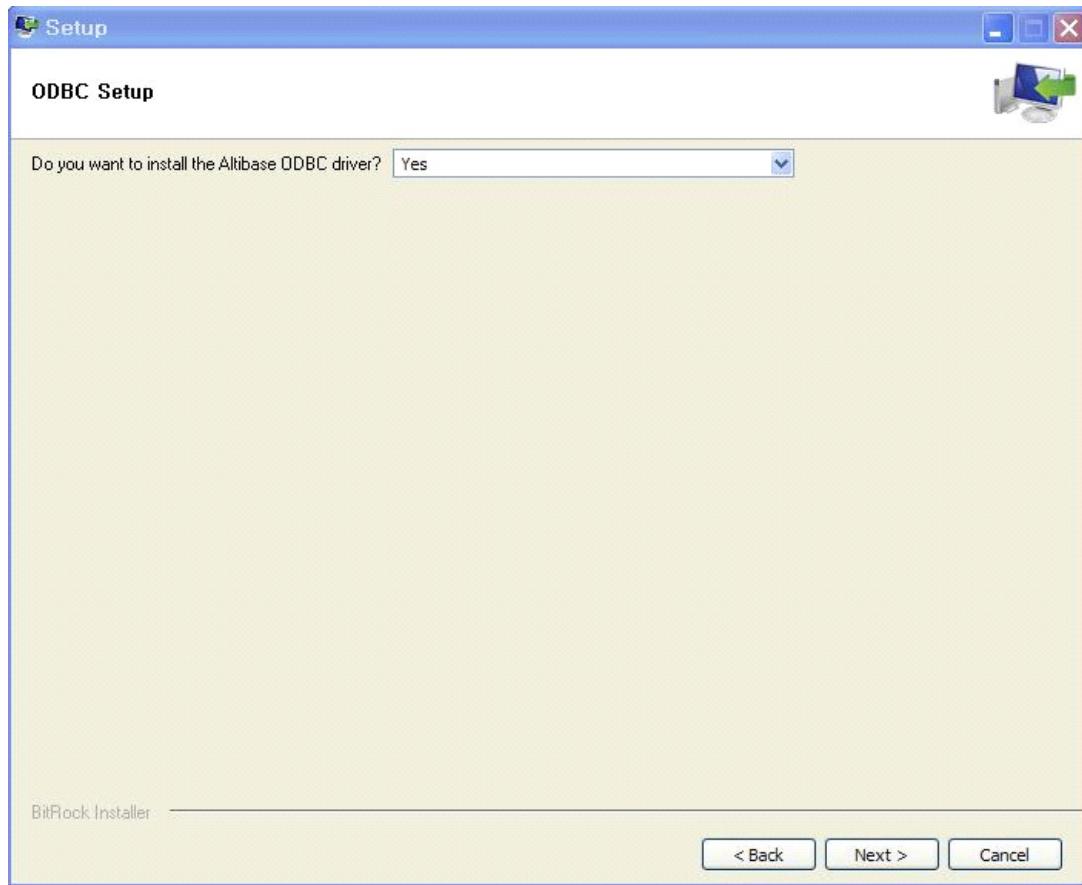
## 2.4.7 Installing the ODBC Driver of ALTIBASE HDB

In this procedure, you determine whether the ALTIBASE HDB ODBC driver (altiodbc.dll) will be installed. If you choose "Yes", the ALTIBASE HDB Package Installer adds information about the ALTIBASE HDB ODBC driver, such as the driver name (ALTIBASE\_HDB\_ODBC\_32/64bit), to the registry and copies the ALTIBASE HDB ODBC driver file (altiodbc.dll) to the following directory:

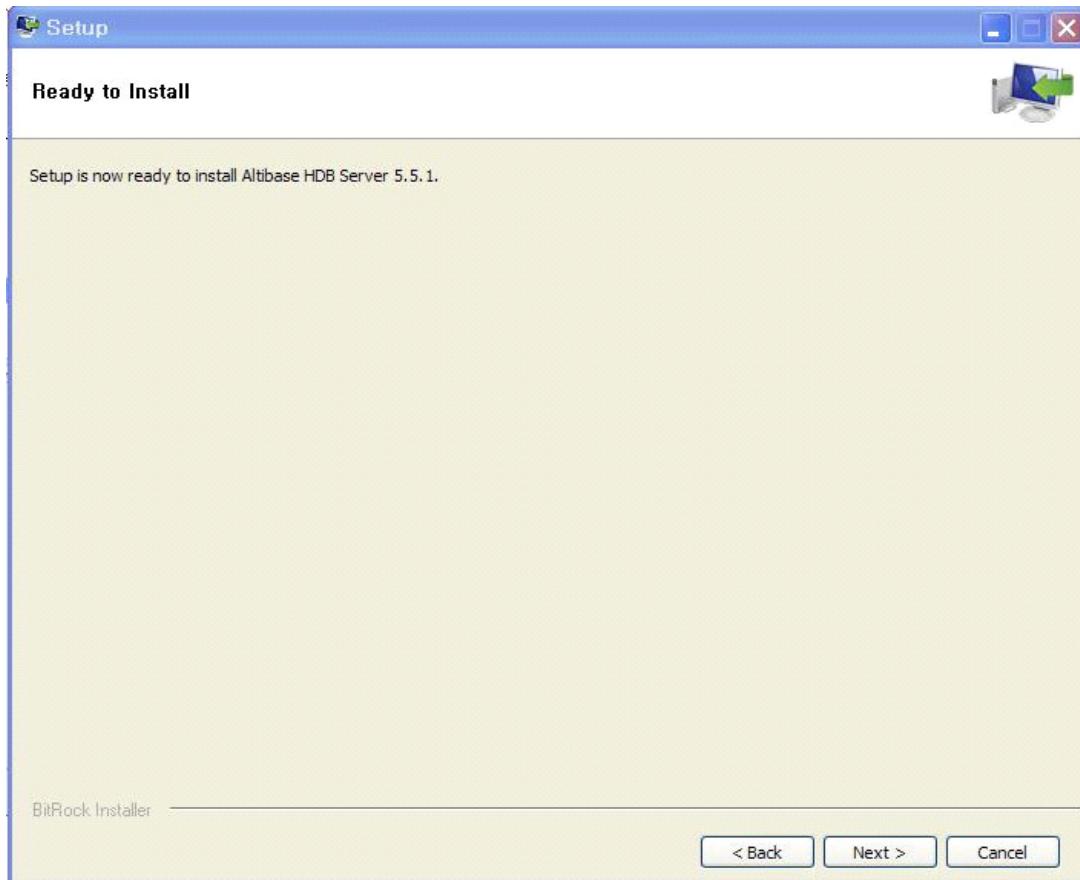
- When installing a 64-bit package on 64-bit operating systems: C:\WINDOWS\system32
- When installing a 32-bit package on 64-bit operating systems: C:\WINDOWS\SysWOW64
- When installing a 32-bit package on 32-bit operating systems: C:\WINDOWS\system32

*Note: The 64-bit package cannot be installed on 32-bit operating systems.*

## 2.4 Installing Altibase Products for Windows

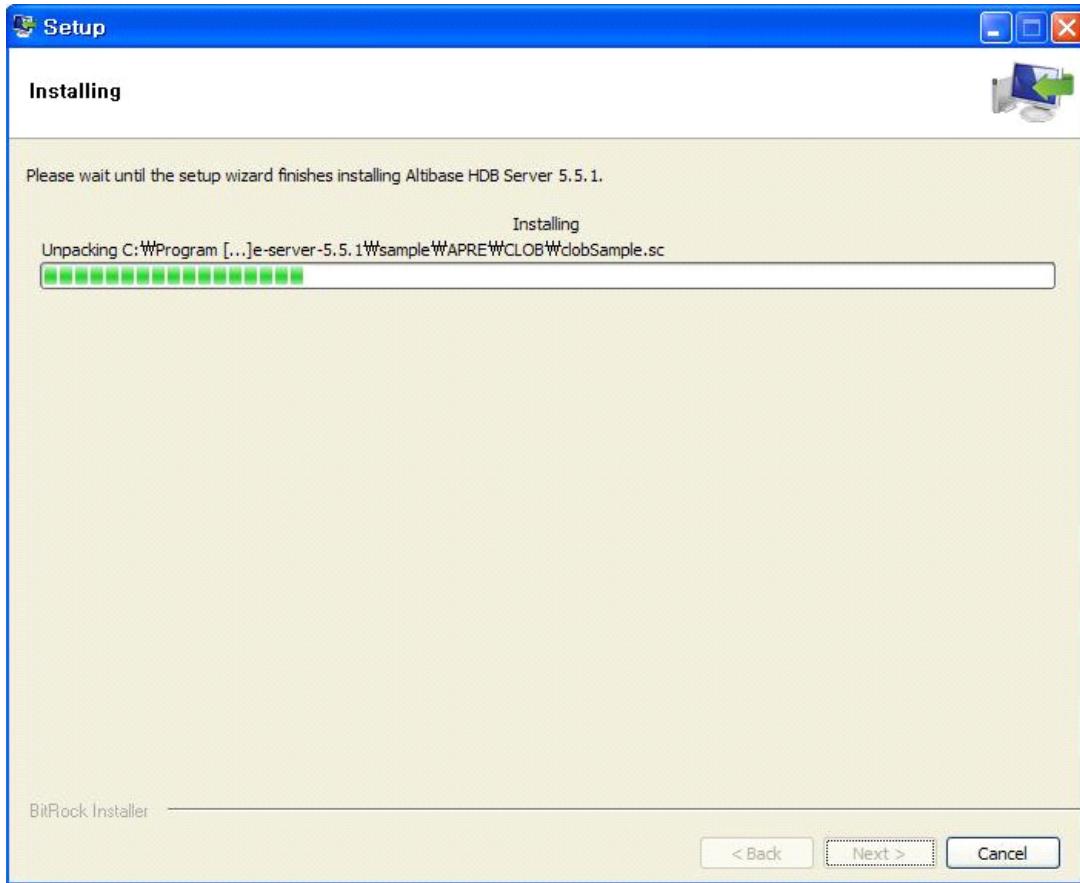


After installing the ODBC driver, the “Ready to Install” panel appears as follows:



Click "Next" to perform the installation.

## 2.4.8 Installing Altibase Products



After installation is complete, the properties are written to the `altibase.properties` file, and an SQL script for creating a new database is included in the `post_instal_win.bat` file. These tasks are performed without displaying a GUI.

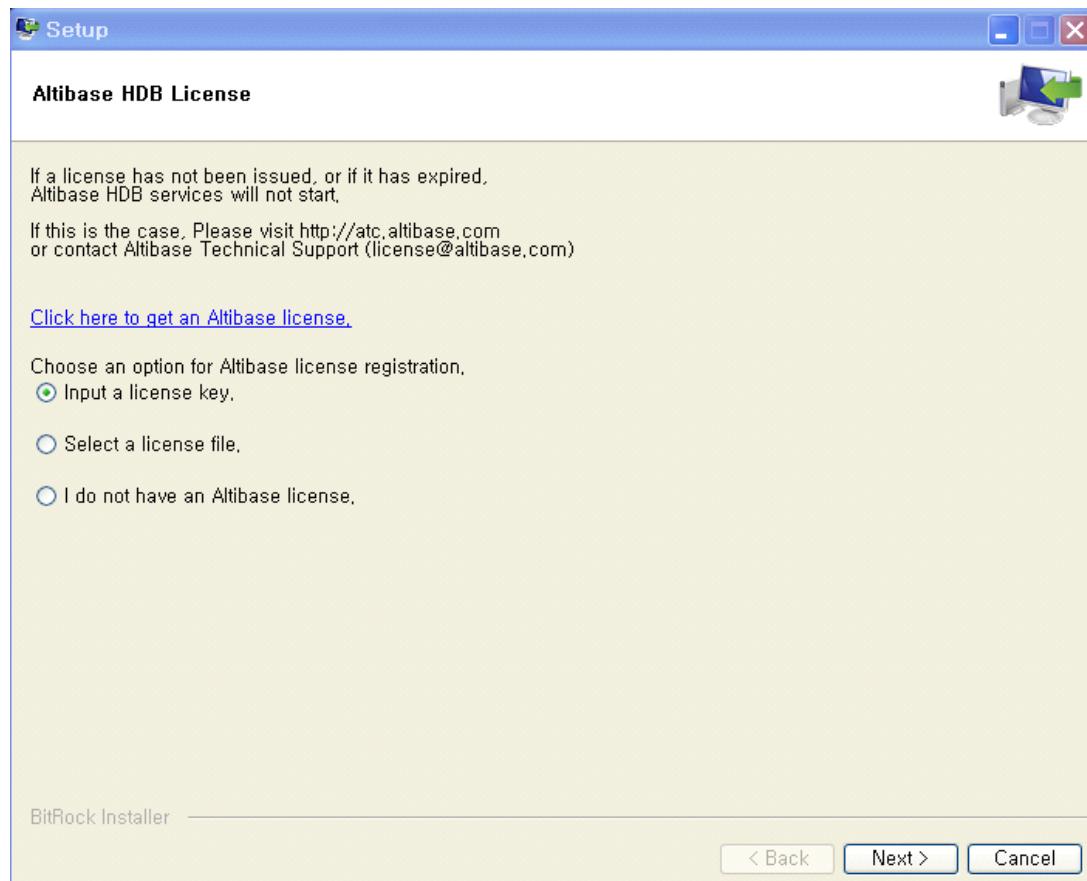
## 2.4.9 Providing ALTIBASE HDB License Information

In this procedure, the license key is provided. If no license file exists, ALTIBASE HDB cannot be started.

The ALTIBASE HDB Package Installer supports the following two ways of providing a license key:

- entering a license key directly
- selecting a file containing license key information

If no license key has been obtained yet, select "No license file exists", and later obtain a license key from the Altibase Technical Center (<http://atc.altibase.com>) or Altibase Technical Support ([license@altibase.com](mailto:license@altibase.com)). When you are issued a new license key, copy the new license file to your `%ALTIBASE_HOME%\conf` directory.



### 2.4.10 The Quick Settings Guide of ALTIBASE HDB

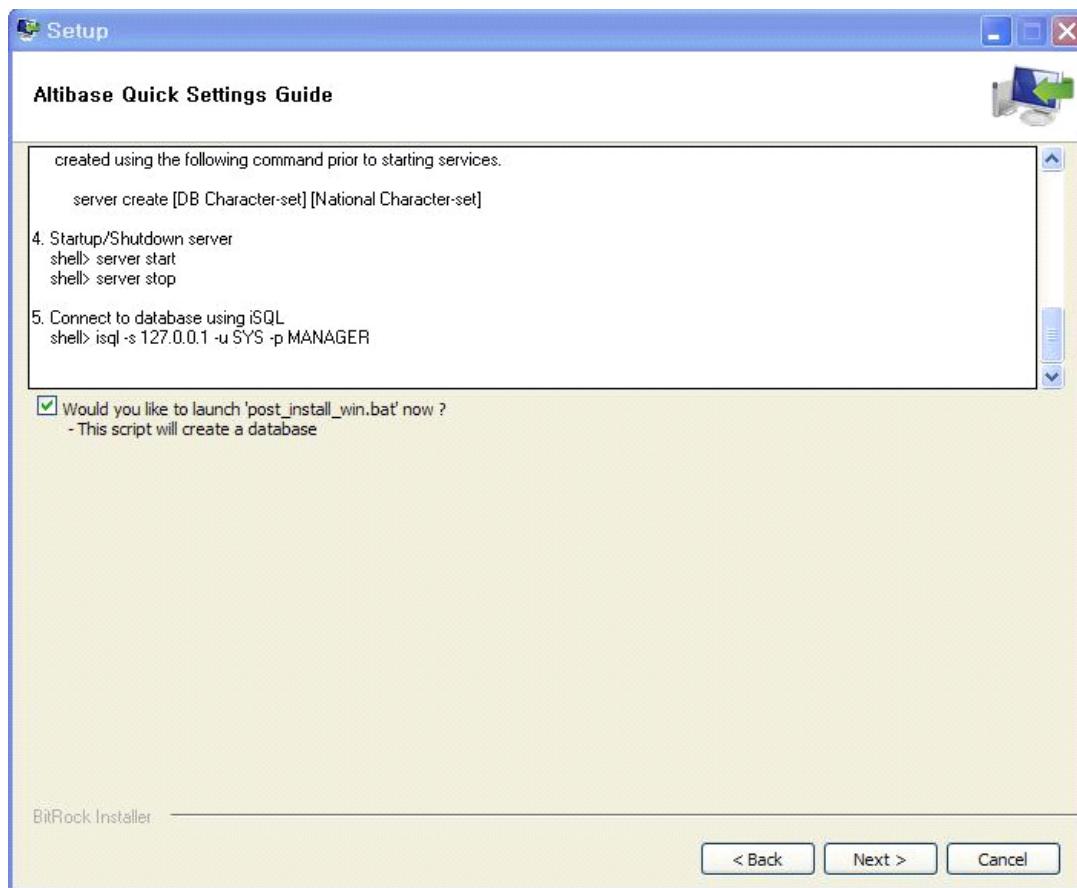
The Quick Settings Guide panel of ALTIBASE HDB shows how to start up ALTIBASE HDB after it has been installed successfully. The ALTIBASE HDB Package Installer provides the following batch file to enable users to easily make ALTIBASE HDB settings and create a database.

- %ALTIBASE\_HOME%\install\post\_install\_win.bat

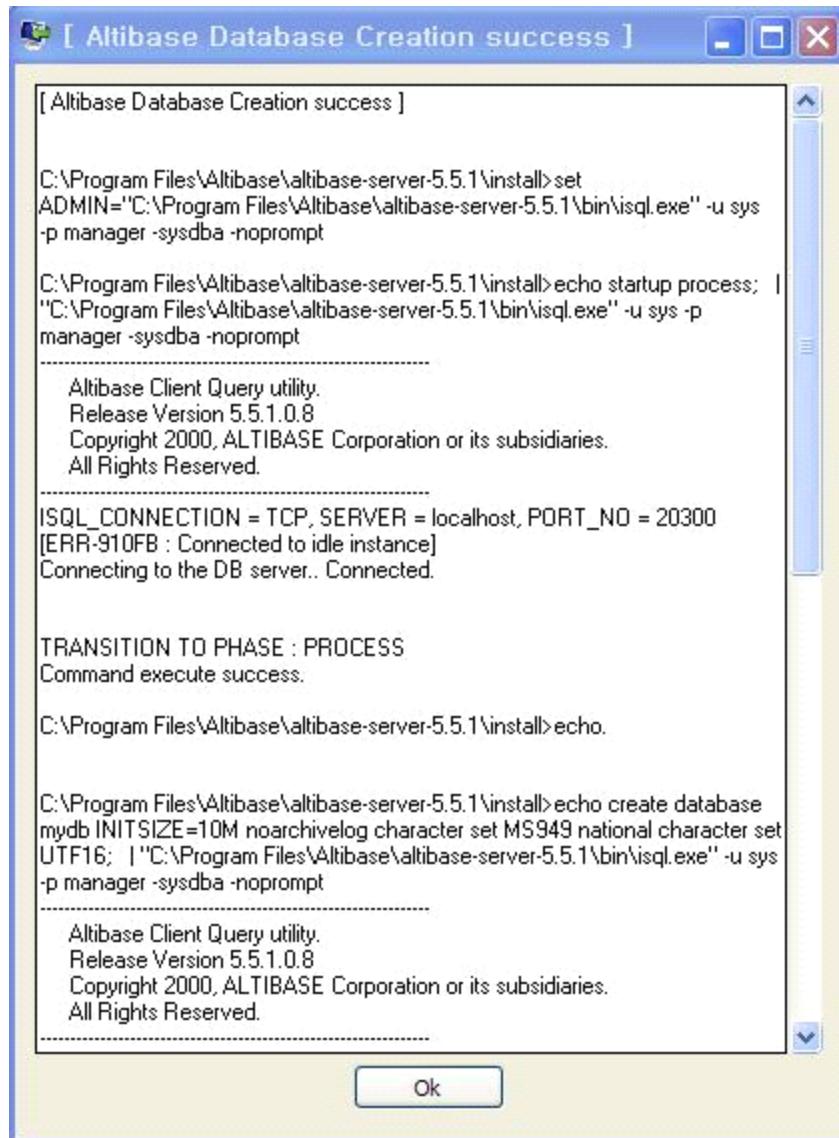
This batch file includes an SQL script for creating a new database (if step 2 was performed in the [2.4.5 Setting ALTIBASE HDB Properties](#) procedure).

If the check box is checked in the next panel, the ALTIBASE HDB Package Installer will run this batch file automatically. Otherwise, this batch file can be run manually by the user after installation is complete. If the check box is checked, a database will be created, which will take additional time.

## 2.4 Installing Altibase Products for Windows



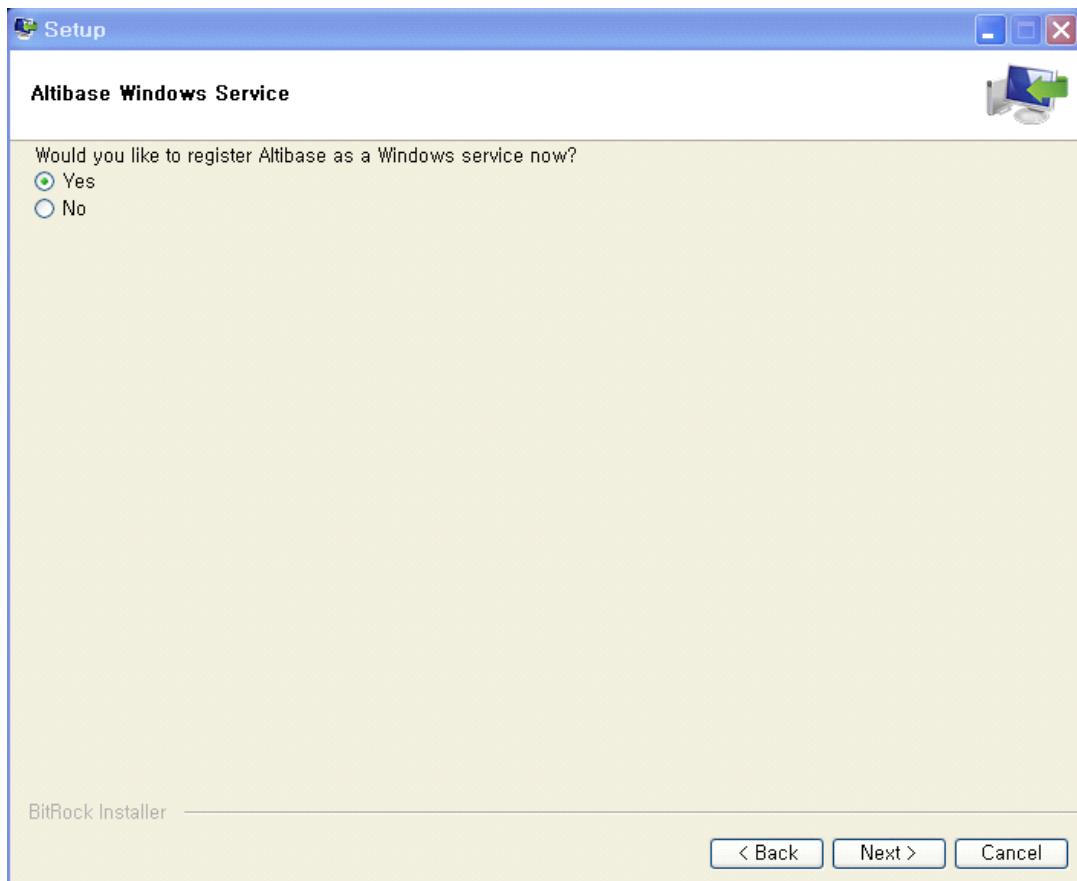
The following dialog box shows the result of running the post\_install\_win.bat batch file.



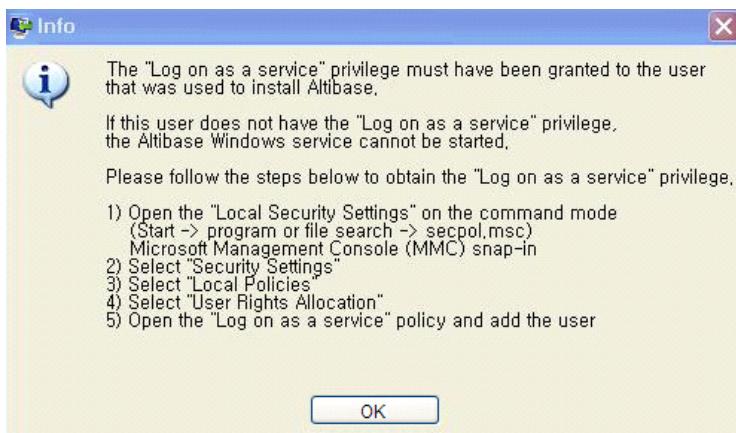
#### 2.4.11 Registering ALTIBASE HDB as a Windows Service

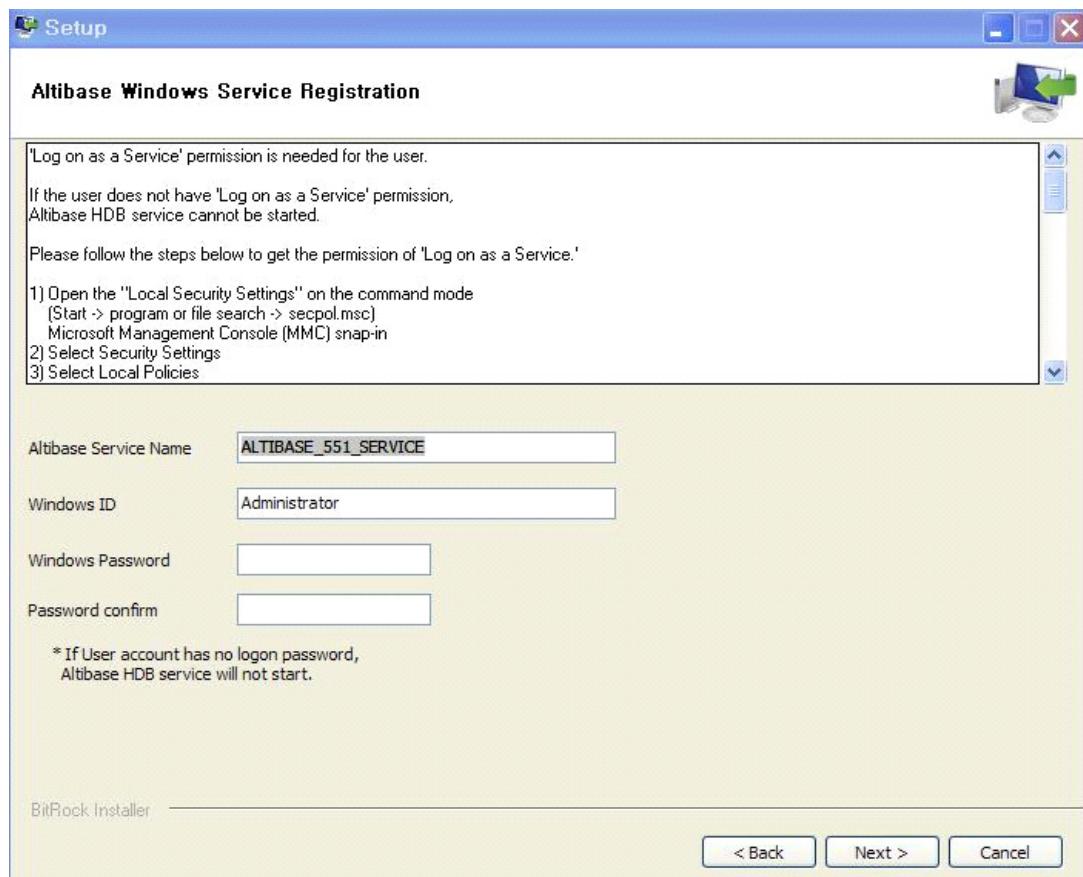
In this procedure, indicate whether ALTIBASE HDB is to be registered as a Windows service. If you select "No" in this procedure, you cannot register ALTIBASE HDB as a Windows service later.

## 2.4 Installing Altibase Products for Windows



If you select "Yes", the following dialog appears with information about how to add the "Log on as a service" privilege in order to start ALTIBASE HDB as a Windows service, and then a page for ALTIBASE HDB Windows service registration appears.

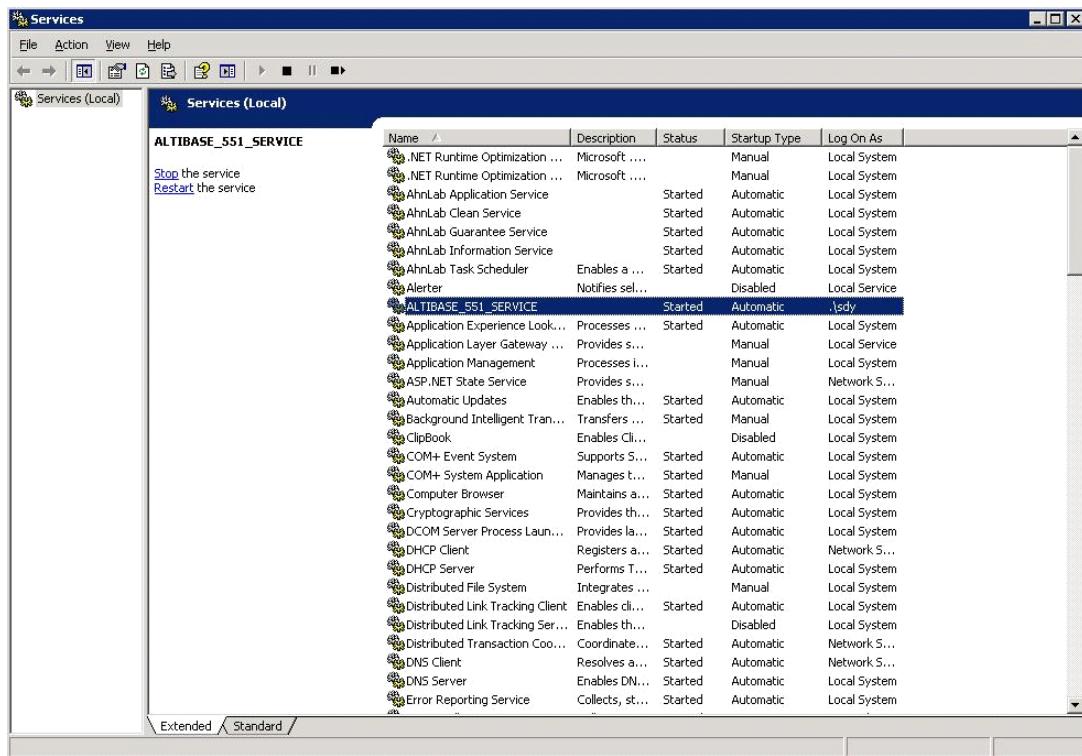




The default value for the Service Name of ALTIBASE HDB is "ALTIBASE\_551\_SERVICE". This name can be changed as desired. The default value for the Windows ID is the same as the user name of the account with which this package was installed. In order to start a Windows service, this user account must have a password. If the account has no password, you must create a password for the account.

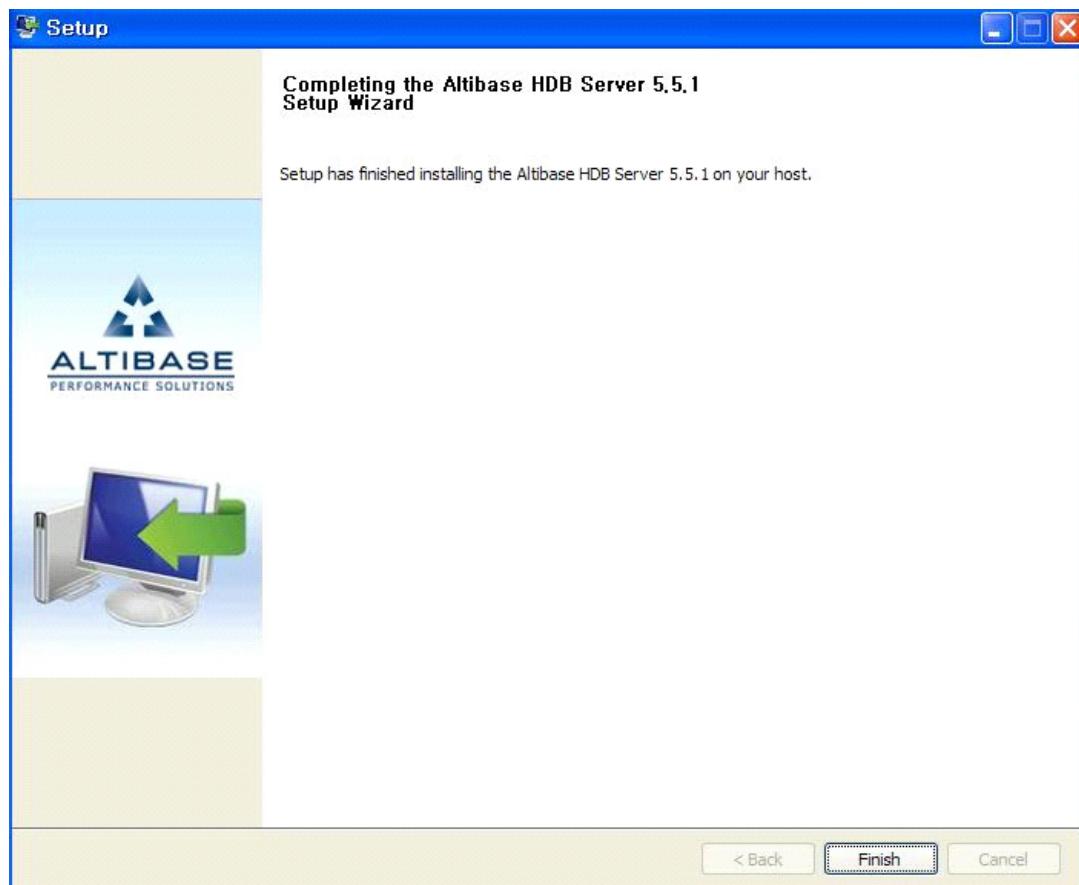
After registering ALTIBASE HDB as a service, the ALTIBASE HDB Package Installer starts the service.

## 2.4 Installing Altibase Products for Windows



### 2.4.12 Finishing Installation

After successful installation, the following panel appears.



### 2.4.13 Post-installation Tasks

After successful installation, the following tasks may be required.

1. Creating a database:

If a database was not created during installation, a new database can be created in either of the following ways:

- If an SQL script for creating a new database was generated:  
Run the %ALTIBASE\_HOME%\install\post\_install\_win.bat file.
- If an SQL script for creating a new database was not generated:  
Use the “server” command in the %ALTIBASE\_HOME%\bin directory.  
`C:\> server create db_charset national_charset`

2. Starting the ALTIBASE HDB server:

If the license key was registered, a database was created and ALTIBASE HDB was registered as a Windows service, the ALTIBASE HDB Package Installer starts up the ALTIBASE HDB server automatically. In order to start up the ALTIBASE HDB server manually, execute the following command in a command prompt window:

## 2.4 Installing Altibase Products for Windows

```
C:\> server start
```

3. If you do not have a license key, obtain a license key. Please refer to [2.4.9 Providing ALTIBASE HDB License Information](#).

*Note: In Windows Vista and Windows 7, if you did not set the User Account Control (UAC) properly, you must run the post\_install\_win.bat file at a windows command prompt that was opened as an administrator (i.e. the command prompt window must be opened using the "Run as administrator" context menu item).*

## 2.5 Installing Altibase Client Products for Unix and Linux

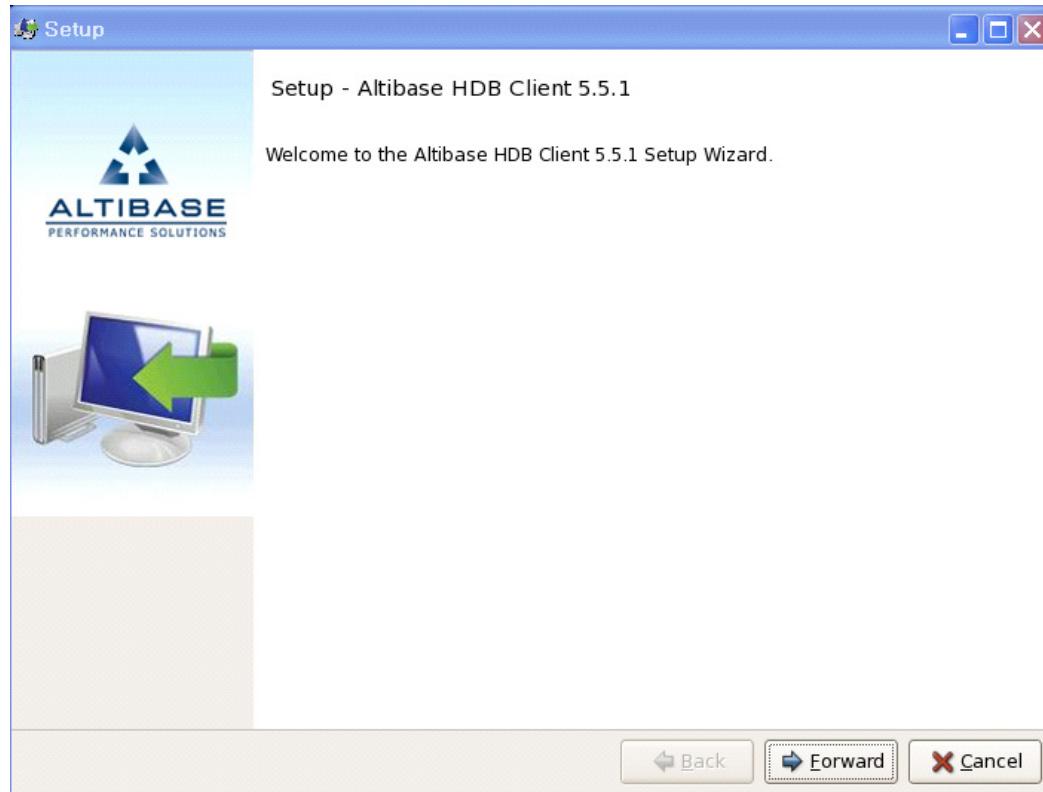
The following sections describe how to install the Altibase Client Products:

- [Checking the Environment Before Installation](#)
- [Starting the ALTIBASE HDB Package Installer](#)
- [Entering the Installation Directory](#)
- [Installing Altibase Client Products](#)
- [Finishing Installation](#)
- [Post-installation Tasks](#)

### 2.5.1 Checking the Environment Before Installation

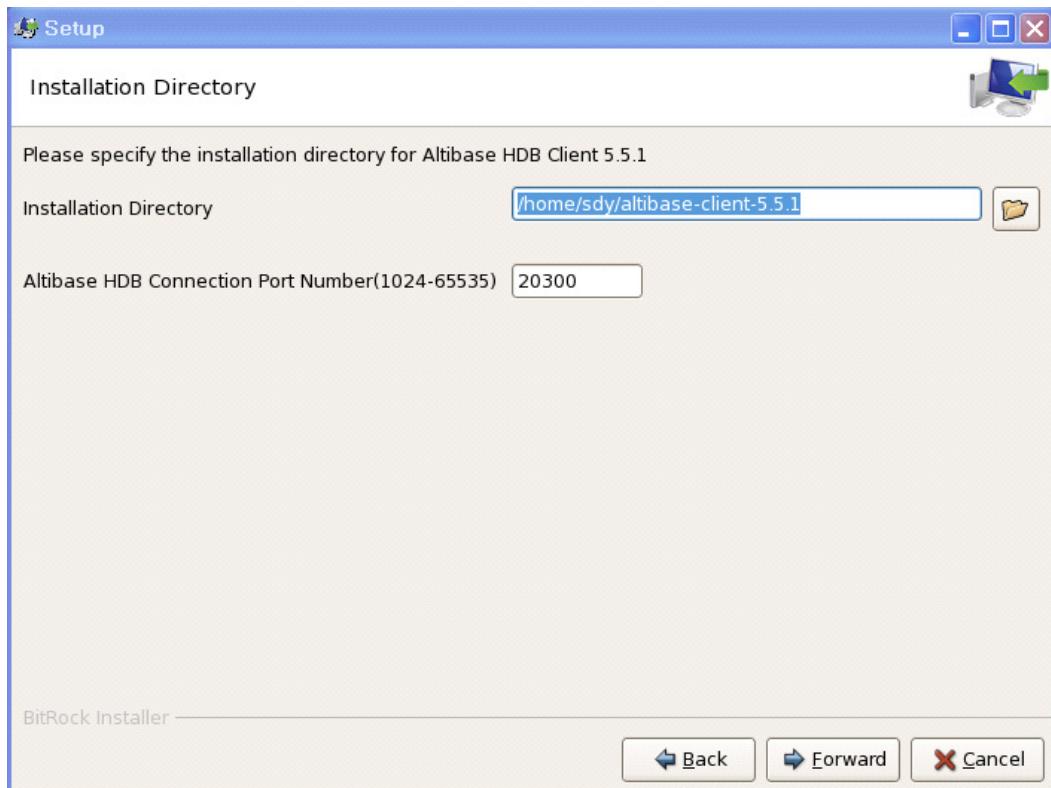
Please refer to [2.3.1 Checking the Environment Before Installation](#) in [Installing Altibase Products](#).

### 2.5.2 Starting the ALTIBASE HDB Package Installer

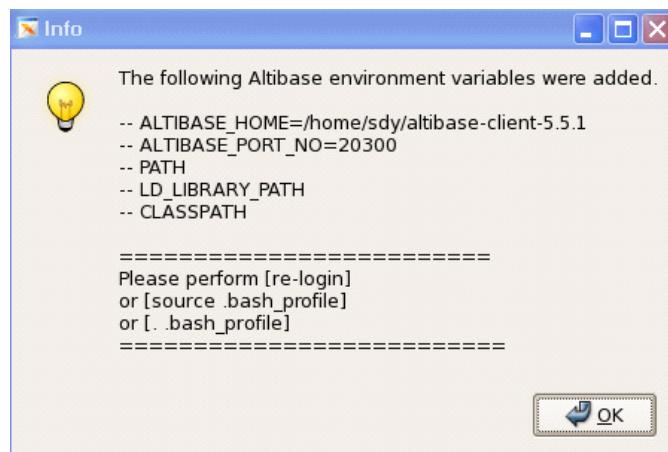
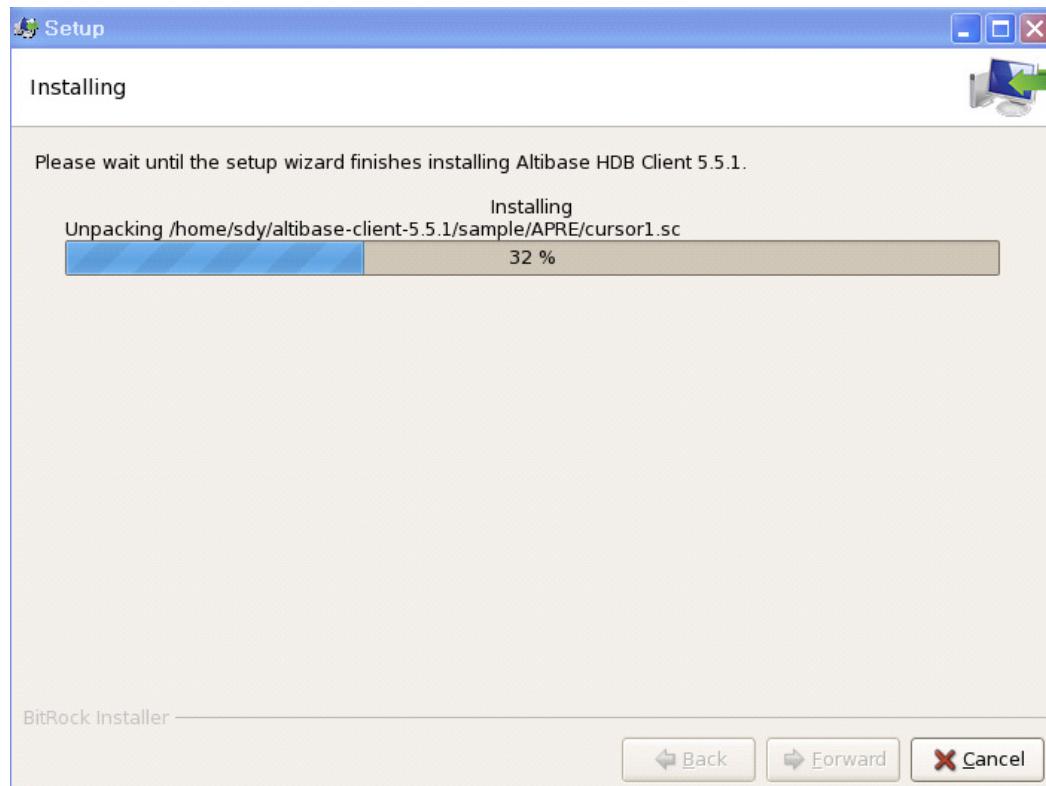


### 2.5.3 Entering the Installation Directory

In the following Installation Directory panel, enter the ALTIBASE HDB home directory, which is where the Altibase client products will be installed, and the communication port number to be used by ALTIBASE HDB clients when connecting via TCP/IP. The port number is saved in the altibase\_user.env file.



## 2.5.4 Installing Altibase Client Products



During this procedure, the environment variables shown in the above dialog box, which pertain to Altibase client products, are added to the environment file for your login shell (eg. default environment file for the standard Bourne shell (sh) is .profile). Note that the altibase\_user.env file, which is generated when Altibase server products are installed, is not generated. In order to apply new environment variables to your shell, perform one of the following actions:

- log out and then log in again

## 2.5 Installing Altibase Client Products for Unix and Linux

- . ~/profile
- source ~/profile

Ex) .profile

```
# ALTIBASE_ENV
export ALTIBASE_HOME=/home1/sdy2/altibase-client-5.5.1
export ALTIBASE_PORT_NO=20300
export PATH=$ALTIBASE_HOME/bin:$PATH
export LD_LIBRARY_PATH=${ALTIBASE_HOME}/lib:${LD_LIBRARY_PATH}
export CLASSPATH=${ALTIBASE_HOME}/lib/Altibase.jar:${CLASSPATH}
```

### 2.5.5 Finishing Installation



### 2.5.6 Post-installation Tasks

If you did not apply new environment variables to your shell during the above procedure, do it now. For more information, please refer to [2.5.4 Installing Altibase Client Products](#).

## 2.6 Installing Altibase Client Products for Windows

The following sections describe how to install the Altibase Client Products in Windows:

- [Checking the Environment Before Installation](#)
- [Starting the ALTIBASE HDB Package Installer](#)
- [Entering the Installation Directory](#)
- [Selecting ODBC driver option of ALTIBASE HDB](#)
- [Installing Altibase Products](#)
- [Finishing Installation](#)

### 2.6.1 Checking the Environment Before Installation

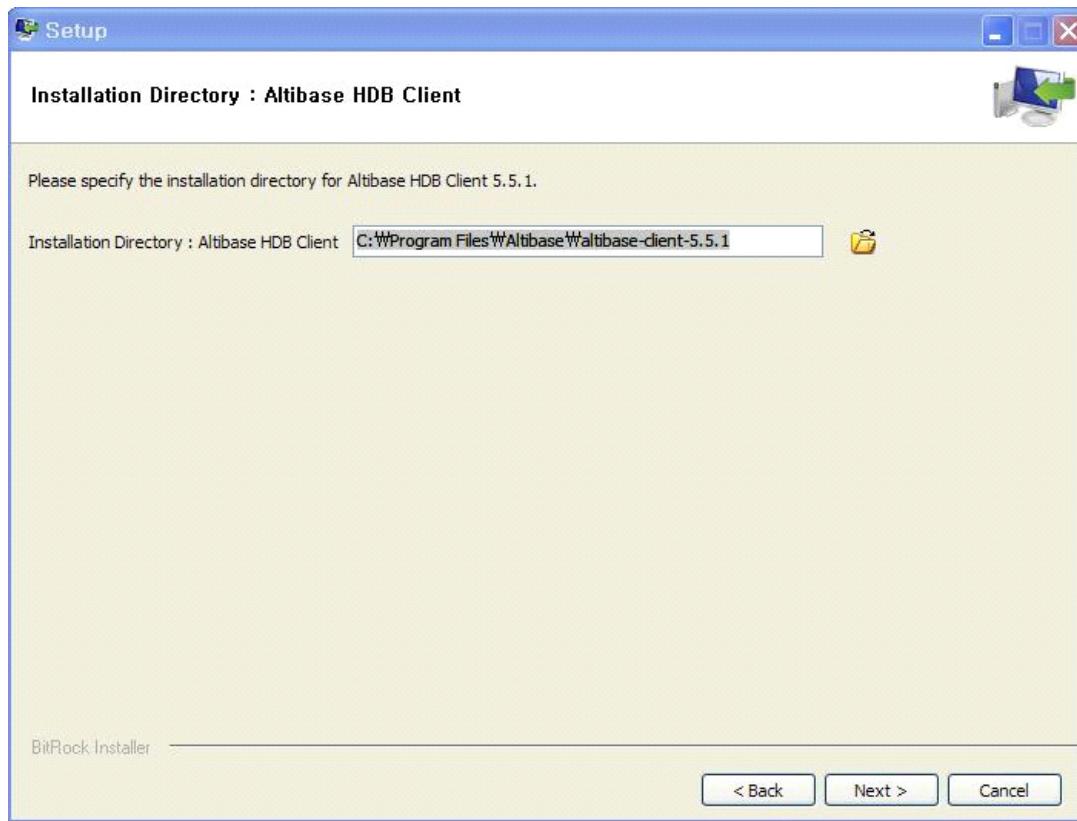
Please refer to [2.4.1 Checking the Environment Before Installation](#) in Installing Altibase products for Windows.

### 2.6.2 Starting the ALTIBASE HDB Package Installer



### 2.6.3 Entering the Installation Directory

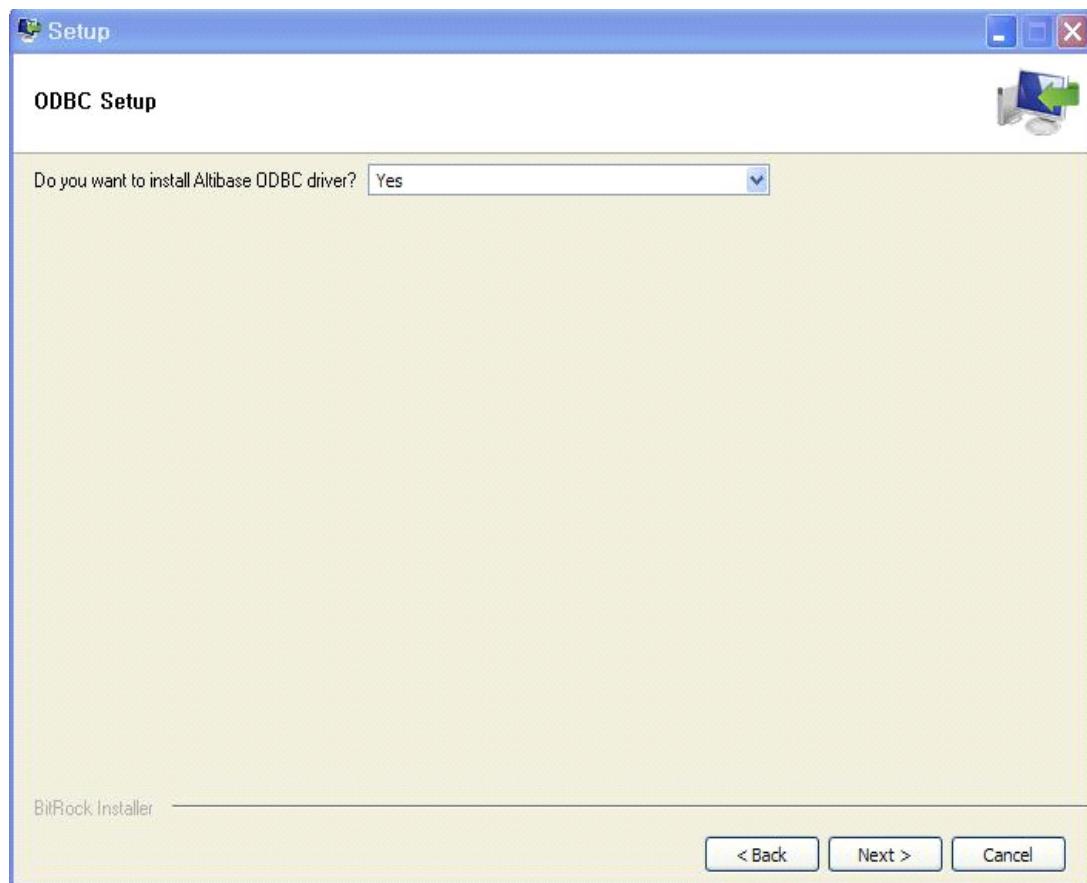
In the following Installation Directory panel, enter the ALTIBASE HDB home directory, which is where the Altibase client products will be installed.



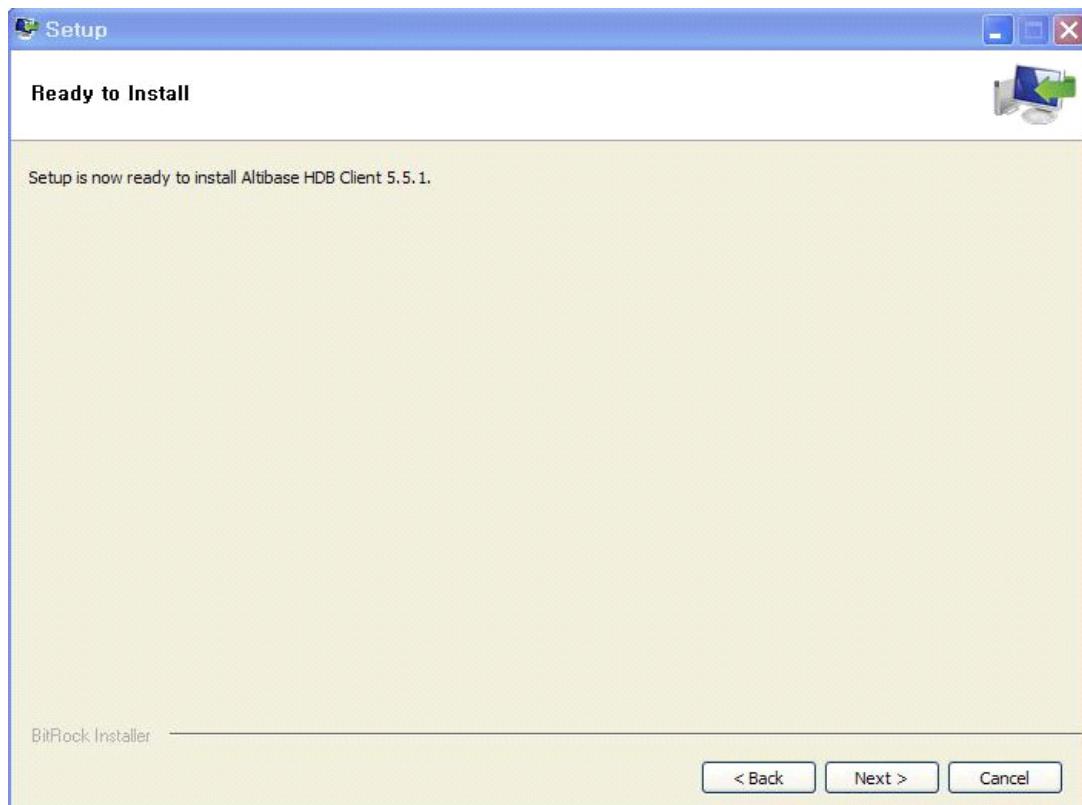
### 2.6.4 Selecting ODBC driver option of ALTIBASE HDB

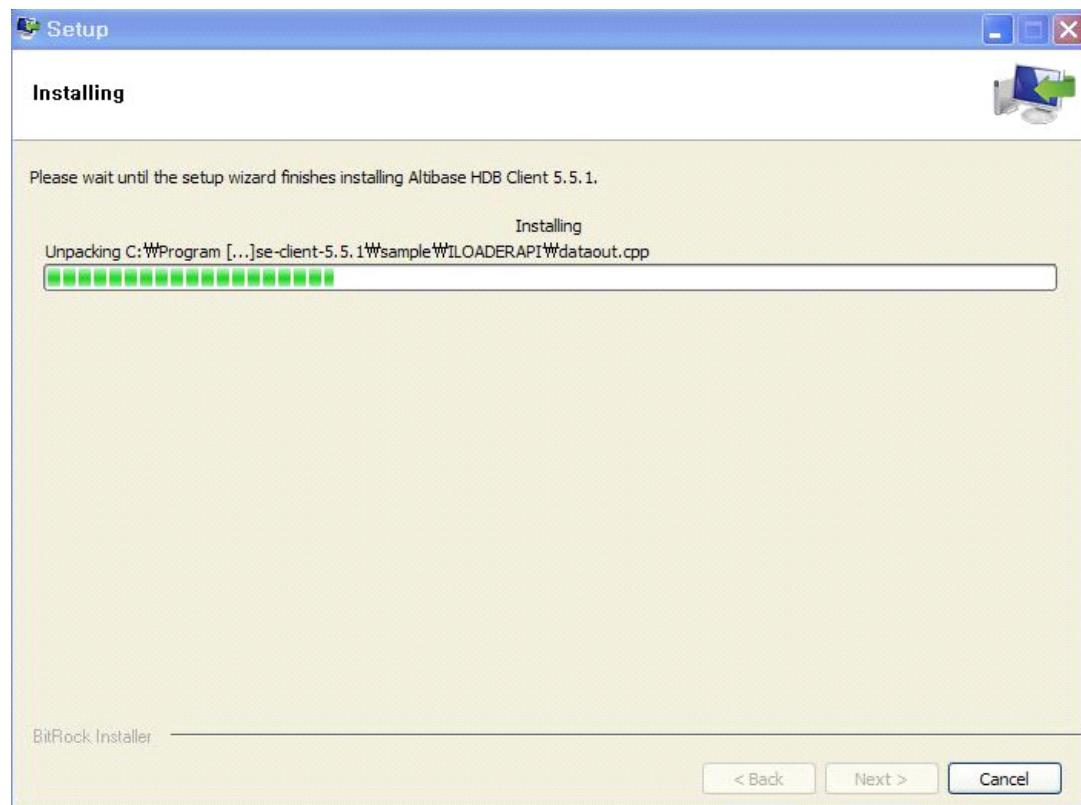
In this procedure, indicate whether the ALTIBASE HDB ODBC driver (altiodbc.dll) is to be installed.

Please refer to [2.4.7 Installing the ODBC Driver of ALTIBASE HDB](#).



## 2.6.5 Installing Altibase Products





## 2.6.6 Finishing Installation



## 2.7 Uninstalling Altibase Products

Altibase products can be uninstalled or rolled back using the uninstaller that was installed along with the product. The uninstaller associated with a base release (a full package used for an initial installation) uninstalls the entire product. The uninstallers that are installed when patches are applied can be used either to uninstall the entire product or to roll back corresponding patches.

*Note: On the HP-UX platform, the uninstaller provided with the ALTIBASE HDB Package Installer cannot roll back patches, but can only uninstall the entire product. Therefore, it is recommended that the previously installed product be backed up manually before applying a patch.*

The following sections describe how to remove products or patches installed using the ALTIBASE HDB Package Installer:

- [Uninstalling Altibase Products](#)
- [Uninstalling Patches](#)

### 2.7.1 Uninstalling Altibase Products

Altibase products or patches installed using the ALTIBASE HDB Package Installer can be uninstalled by running the uninstaller associated with the product that is to be removed. However, only the most recently installed product can be removed.

To remove an Altibase HDB, perform the following steps:

1. Select the uninstaller, such as `uninstall-base`, in the `$ALTIBASE_HOME/APatch` directory, that is associated with the product to be removed.
2. Run the uninstaller.

### 2.7.2 Uninstalling Patches

Patches installed using the ALTIBASE HDB Package Installer can be rolled back by running the uninstaller named according to the convention `uninstall-p<patch_version>`. However, only the most recently installed patch can be rolled back. During the uninstallation task, a patch is removed and the previous version is restored from the backup.

To roll back a patch, perform the following steps:

1. Select the uninstaller, such as `uninstall-p0_0_0_1` in the `$ALTIBASE_HOME/APatch` directory, that is associated with the patch to be removed.
2. Run the uninstaller.

## 2.7 Uninstalling Altibase Products

# **3 Patching Products Using the ALTIBASE HDB Package Installer**

---

This chapter describes how to apply patches. It includes the following sections:

- [About Patches](#)
- [Patching Altibase Server Products](#)
- [Patching Altibase Client Products](#)

## 3.1 About Patches

A patch is a small collection of files that is used to overwrite an existing installation. Patches are associated with particular versions of Altibase Products. Patches are bug fixes that are made available to customers in response to specific bugs. They require a particular base release or patchset to be installed before they can be applied.

### 3.1.1 Install Type for the ALTIBASE HDB

**Table 3-1 Full Package vs. Patch Package**

step	Full Package	Patch Package
Checking the Environment Before Installation	O	O
Starting the ALTIBASE HDB Package Installer	O	O
Checking System Parameters	O	
Entering the Installation Directory	O	O
Checking the Patch Version		O
Setting ALTIBASE HDB Properties	O	
Confirming the ALTIBASE HDB Properties	O	
Installing the ODBC Driver of ALTIBASE HDB	O (Windows Only)	
Installing Altibase Products	O	O
Providing ALTIBASE HDB License Information	O	
Previewing the Quick Setting Guide of ALTIBASE HDB	O	
Registering ALTIBASE HDB as a Windows Service	O (Windows Only)	
Finishing Installation	O	O

### 3.1.2 Install Type for the Altibase Client Product

**Table 3-2 Full Package vs. Patch Package**

step	Full Package	Patch Package
Checking the Environment Before Installation	O	O
Starting the ALTIBASE HDB Package Installer	O	O
Entering the Installation Directory	O	O
Installing the ODBC Driver of ALTIBASE HDB	O (Windows Only)	
Checking the Patch Version		O

step	Full Package	Patch Package
Setting ALTIBASE HDB Properties	O	
Installing Altibase Products	O	O
Finishing Installation	O	O

## 3.2 Patching Altibase Server Products

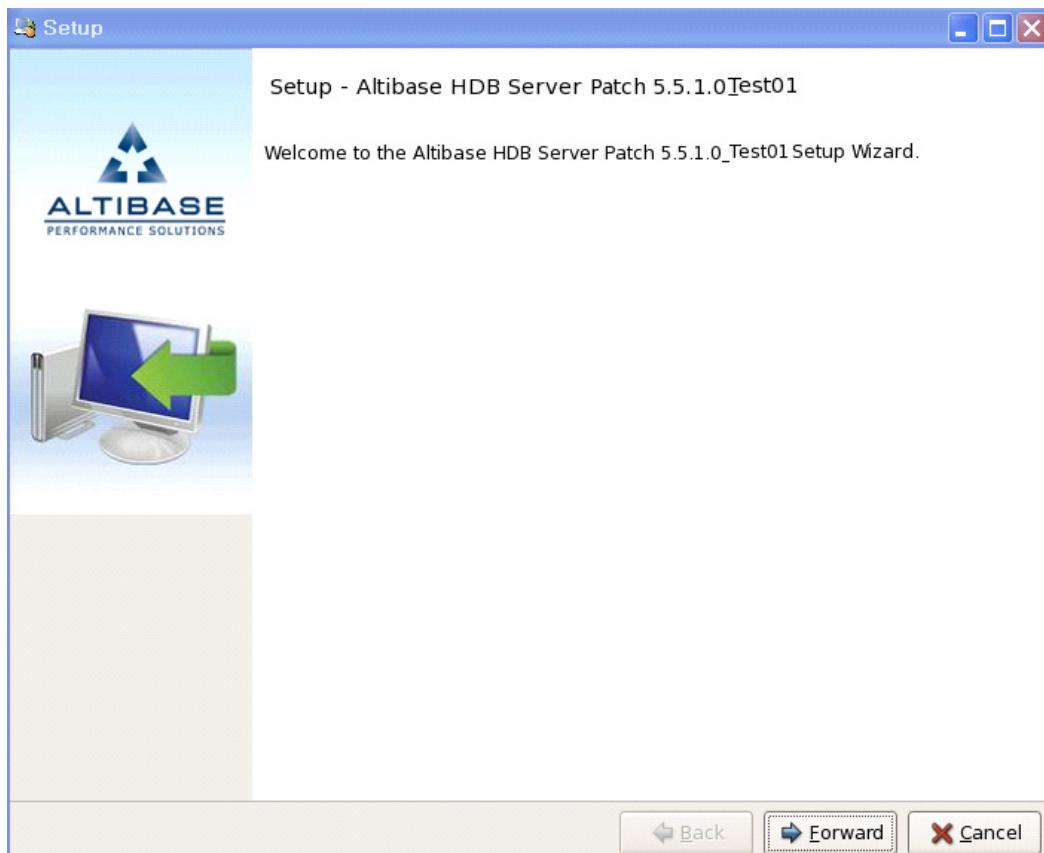
The following sections describe how to apply server patches of ALTIBASE HDB:

- [Checking the Environment Before Installation](#)
- [Starting the ALTIBASE HDB Package Installer](#)
- [Entering the Installation Directory](#)
- [Checking the Patch Version](#)
- [Installing Altibase Products](#)
- [Finishing Installation](#)

### 3.2.1 Checking the Environment Before Installation

Please refer to [2.3.1 Checking the Environment Before Installation \(Unix\)](#) or [2.4.1 Checking the Environment Before Installation \(Windows\)](#) in [Installing Altibase products](#).

### 3.2.2 Starting the ALTIBASE HDB Package Installer

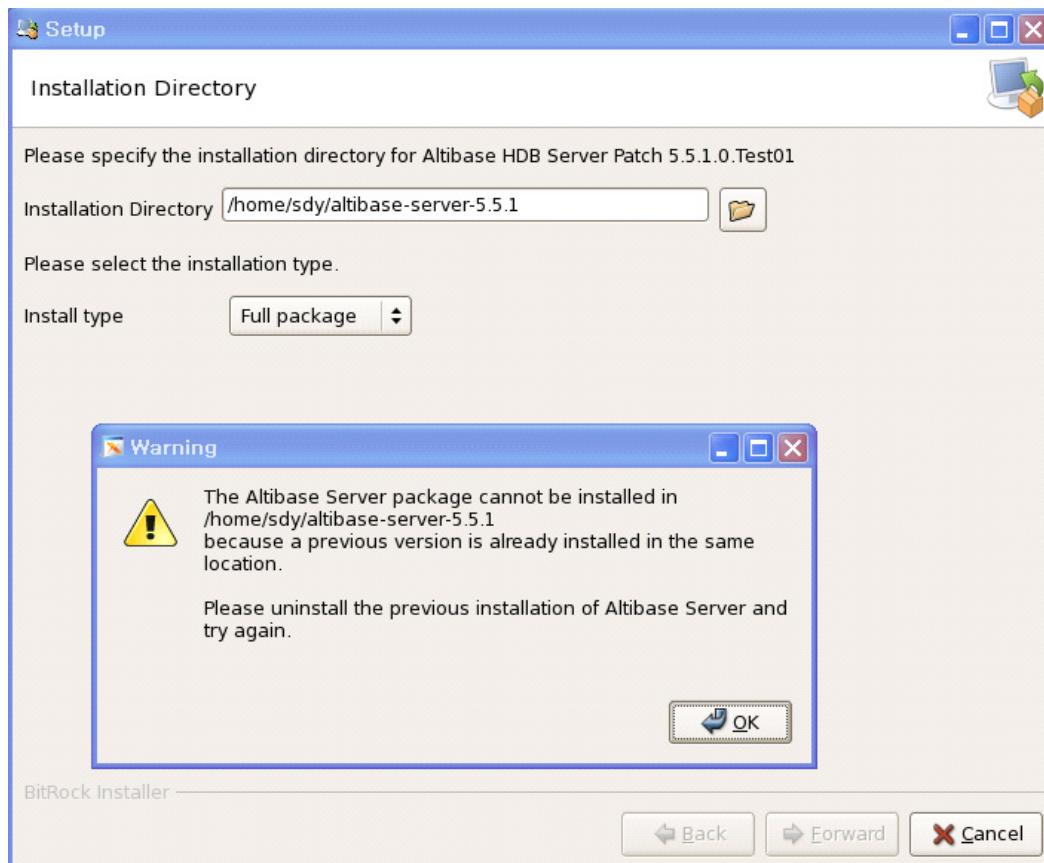


### 3.2.3 Entering the Installation Directory

In the following Installation Directory panel, enter the ALTIBASE HDB home directory containing the product to be patched. Patches require a base release to be installed before they are applied. If no ALTIBASE HDB has been installed in the directory specified by the user, a dialog box appears with a warning message. The dialog box is shown below.

However, if “Full package” is selected for “Install type”, the installation steps are the same as when installing Altibase server products. Please refer to [2.3 Installing Altibase Products for Unix and Linux](#) or [2.4 Installing Altibase Products for Windows](#).

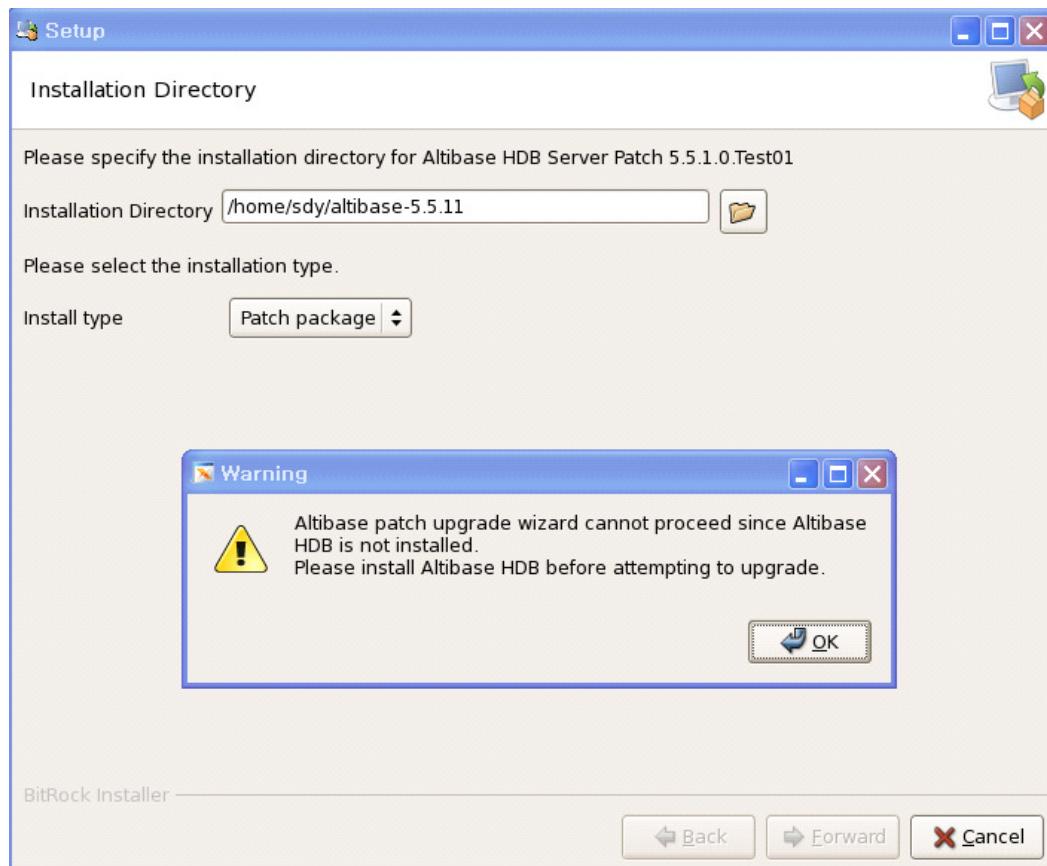
Ex) Selecting “Full package”



### 3.2 Patching Altibase Server Products

Ex) Selecting "Patch package"

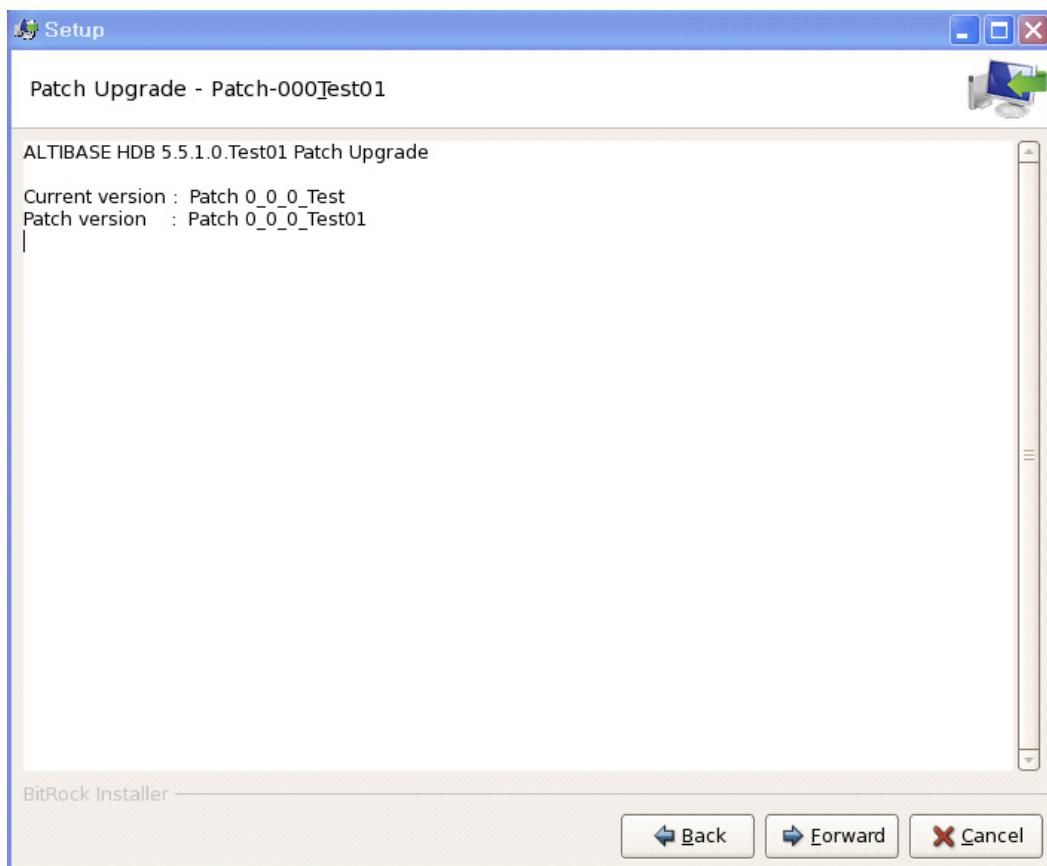




### 3.2.4 Checking the Patch Version

This panel shows the patch version of the ALTIBASE HDB that is currently installed in the selected directory and the version of the patch that will be applied.

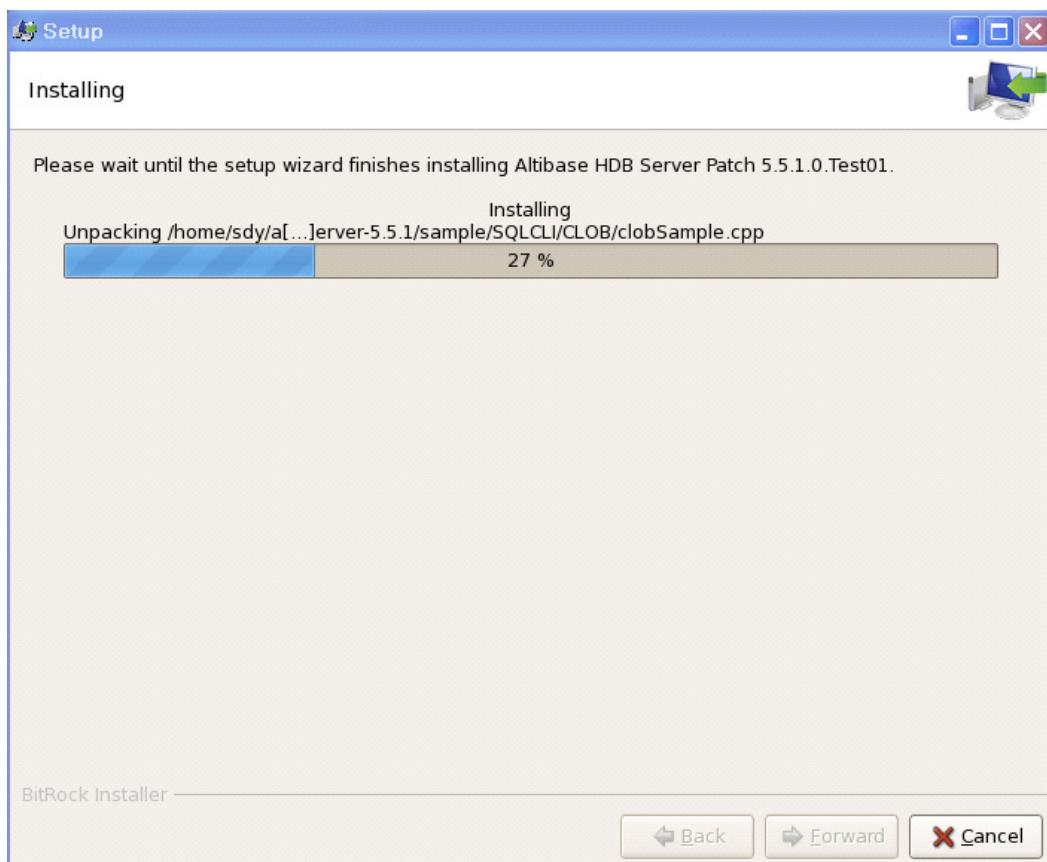
### 3.2 Patching Altibase Server Products



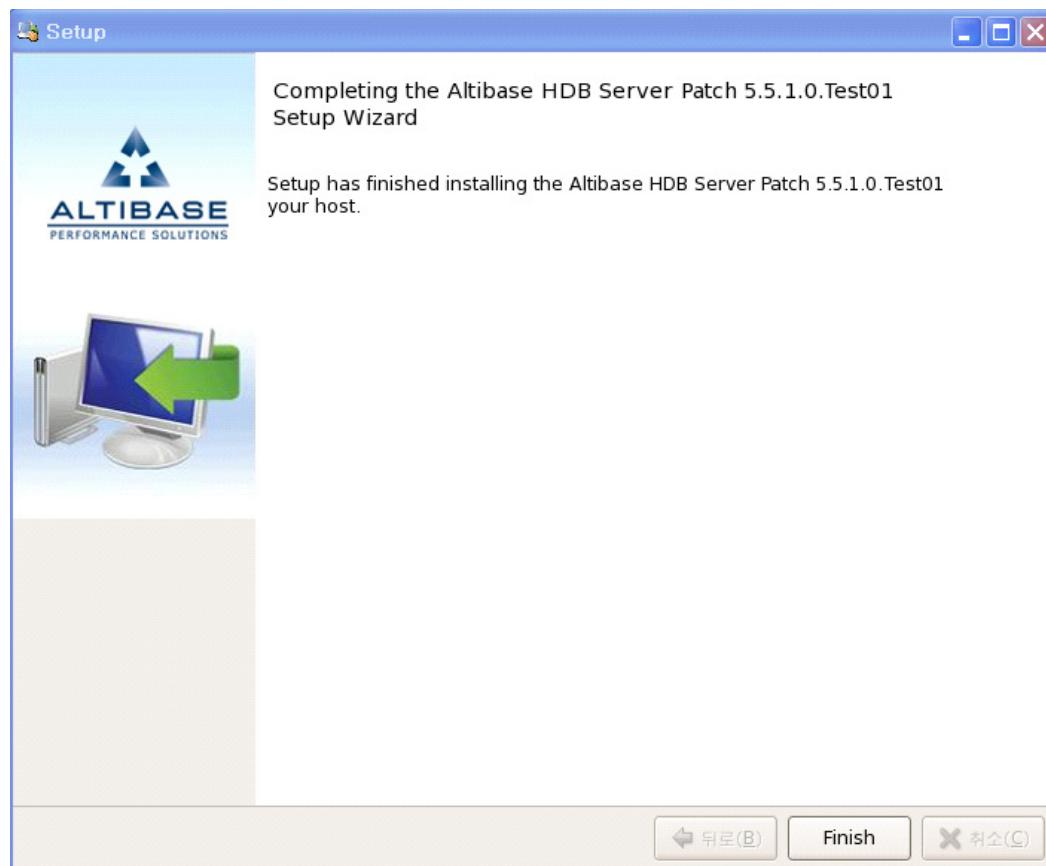
### 3.2.5 Installing Altibase Products



### 3.2 Patching Altibase Server Products



### 3.2.6 Finishing Installation



## 3.3 Patching Altibase Client Products

The following sections describe how to apply client patches of ALTIBASE HDB:

- [Checking the Environment Before Installation](#)
- [Starting the ALTIBASE HDB Package Installer](#)
- [Entering the Installation Directory](#)
- [Checking the Patch Version](#)
- [Installing Altibase Products](#)
- [Finishing Installation](#)

### 3.3.1 Checking the Environment Before Installation

Please refer to [3.2.1 Checking the Environment Before Installation](#) in [Installing Altibase Products](#).

### 3.3.2 Starting the ALTIBASE HDB Package Installer

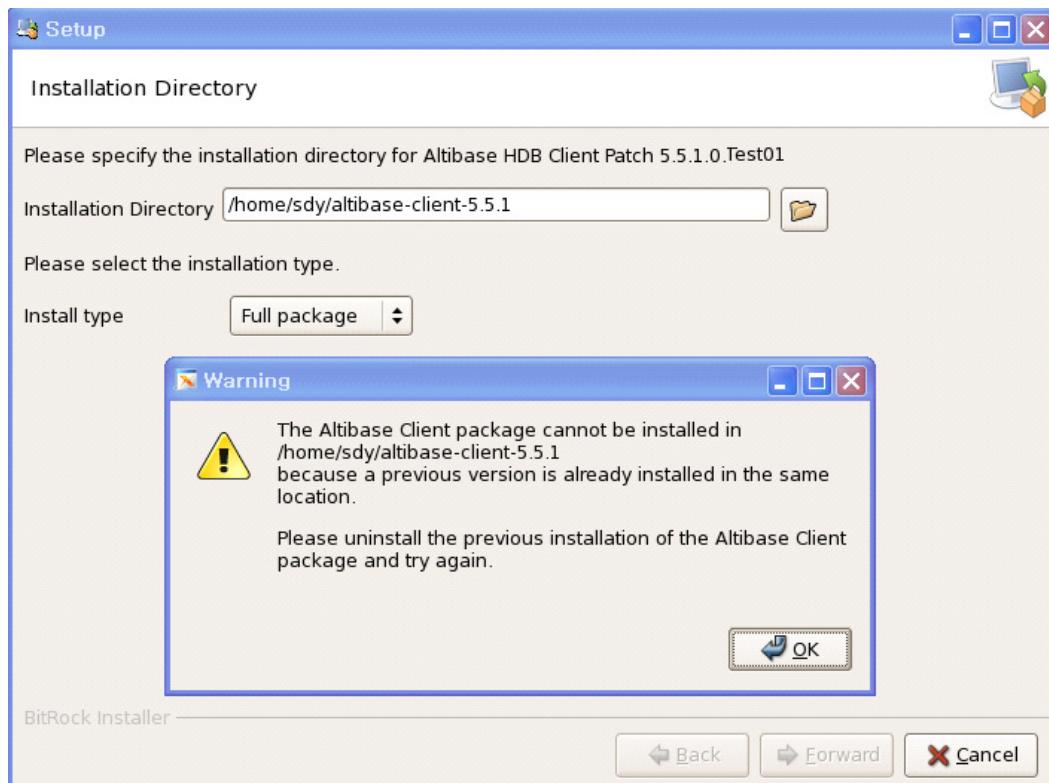


### 3.3.3 Entering the Installation Directory

In the following Installation Directory panel, enter the ALTIBASE HDB home directory containing the product to be patched. Patches require a base release to be installed before they are applied. If no ALTIBASE HDB has been installed in the directory specified by the user, a dialog box appears with a warning message. The dialog box is shown below.

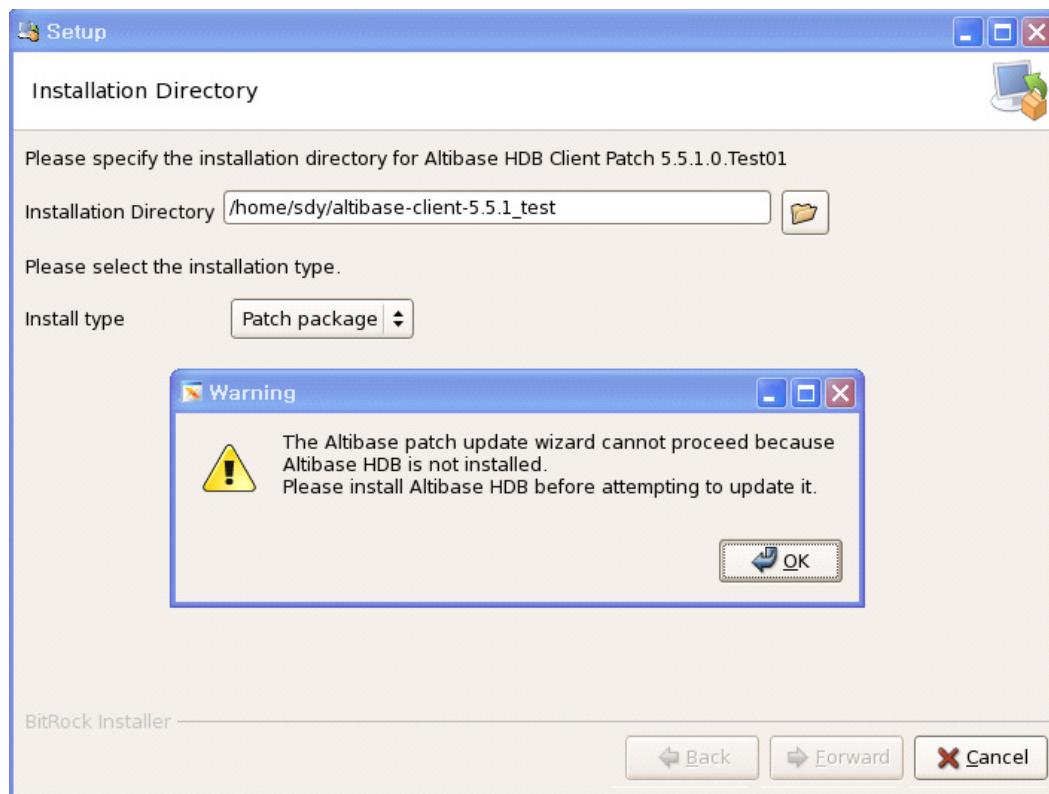
However, if "Full package" is selected for "Install type", the installation steps are the same as when installing Altibase client products. Please refer to [2.5 Installing Altibase Client Products for Unix and Linux](#) or [2.6 Installing Altibase Client Products for Windows](#).

Ex) Selecting "Full package"



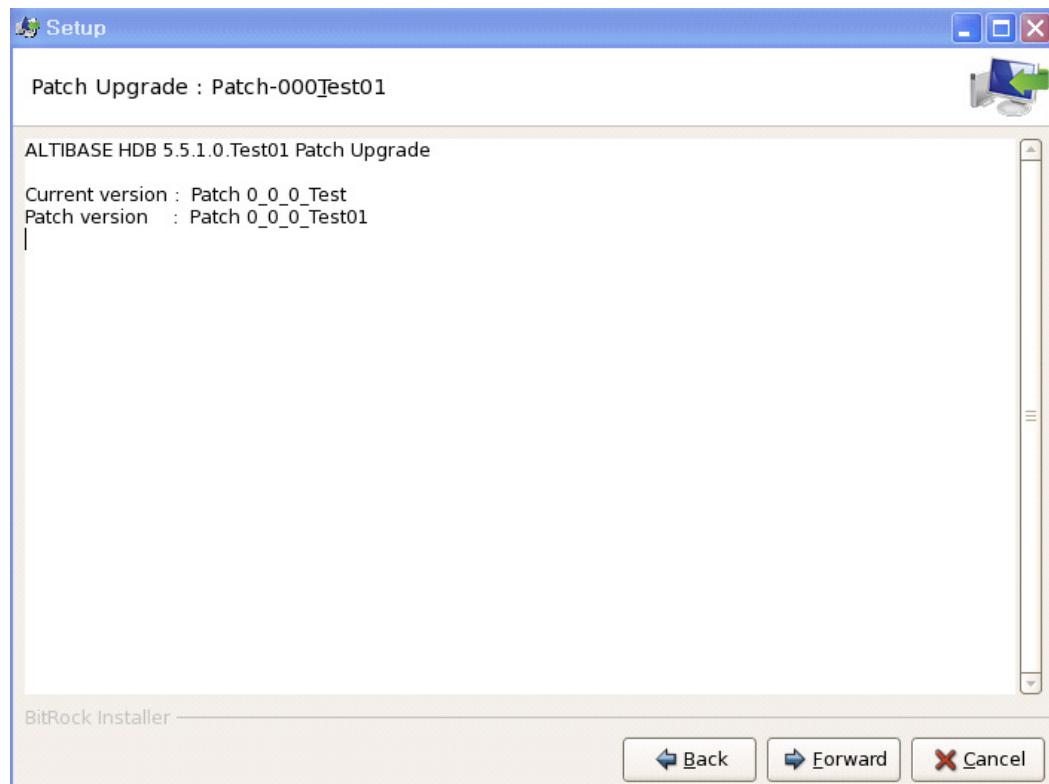
### 3.3 Patching Altibase Client Products

Ex) Selecting "Patch package"

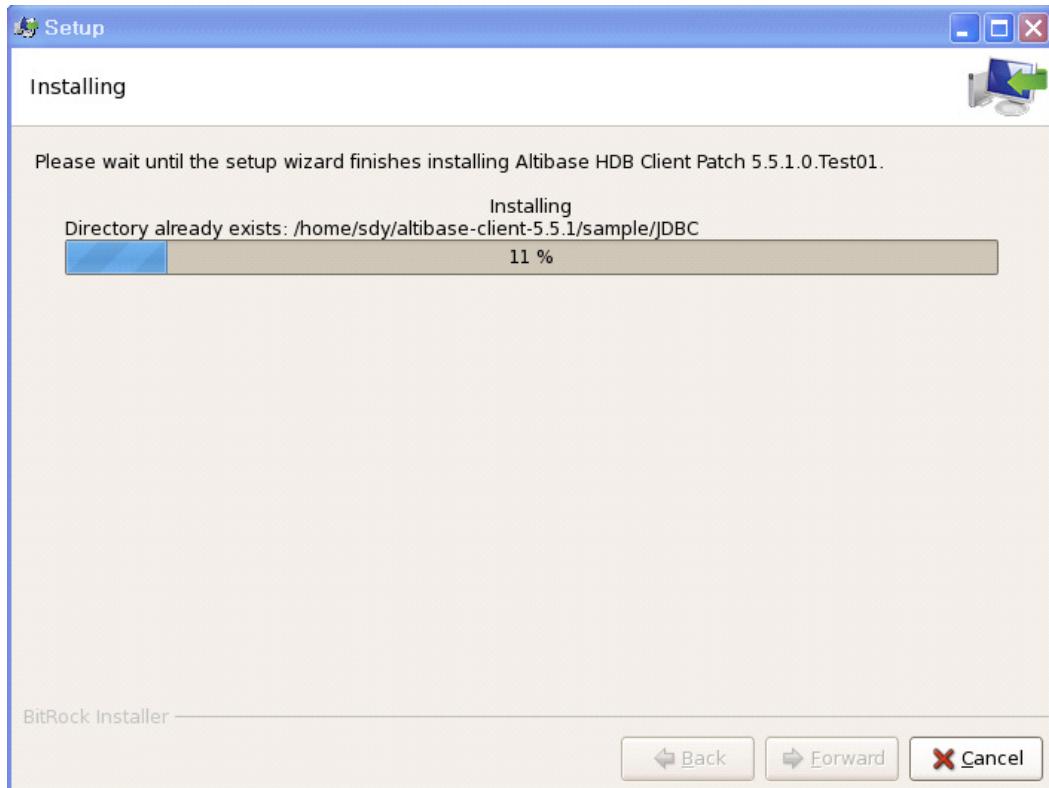


#### 3.3.4 Checking the Patch Version

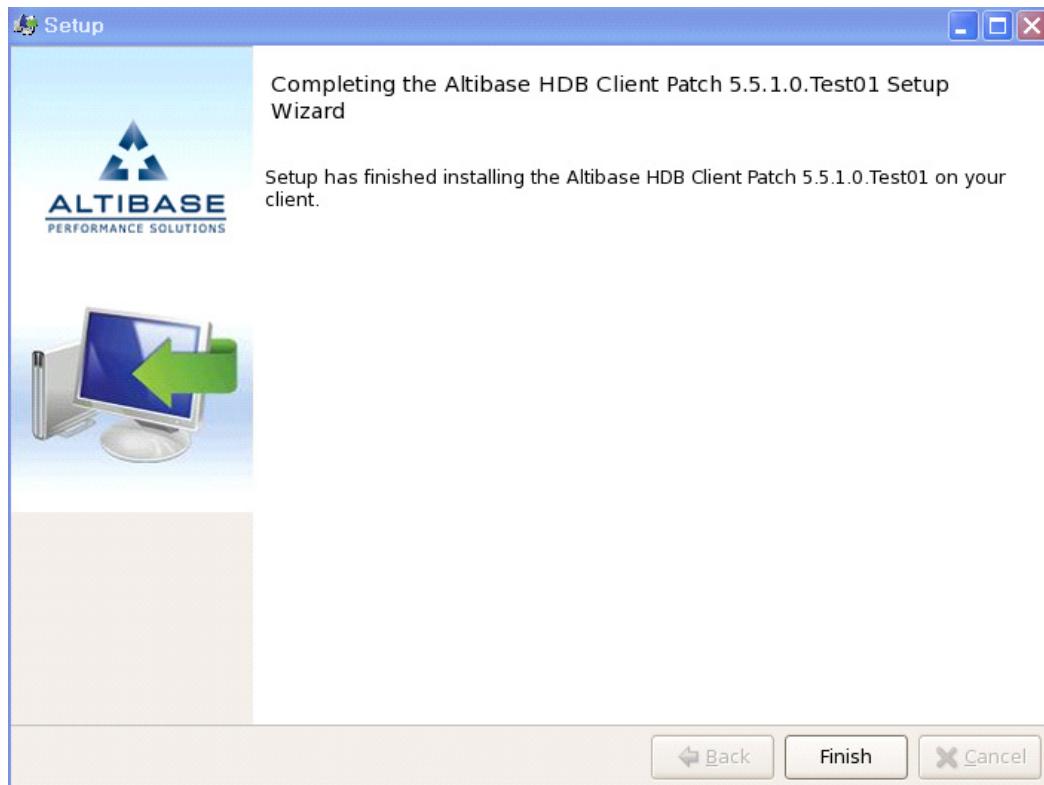
This panel shows the patch version of the ALTIBASE HDB that is currently installed in the selected directory and the version of the patch that will be applied.



### 3.3.5 Installing Altibase Products



### 3.3.6 Finishing Installation



### 3.3 Patching Altibase Client Products

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