

Install Fedora core 5 with kernel 2.6.15-1.2054_FC5

The installation options include the selection of packages. I installed the usual set of packages including Open Office. I also included anything that looked like software development including Eclipse, windows sharing libraries and legacy software development packages. However, I excluded server type packages such as web hosting, NIS, DHCP and a few others.

Following first boot, the first task is to install the ndiswrapper software for my wireless network card.

I then compiled and installed the gkrellm utility, but this is not necessary for the Oracle installation.

Now for the ORACLE install.

Following the Puschitz online guide fairly closely...

<http://www.puschitz.com/InstallingOracle10g.shtml>

carry out the following steps.

1. Install packages. This is the list that I needed but depending on your selections when installing Fedora 5 will you may need a few more.

Having downloaded them perform the following:

```
rpm -ivh \  
compat-db-4.2.52-4.i386.rpm \  
gnome-libs-1.4.1.2.90-49.i386.rpm \  
libai o-0.3.106-2.2.i386.rpm \  
libpng10-1.0.18-3.2.1.i386.rpm \  
ORBit-0.5.17-15.2.2.i386.rpm \  
sysstat-6.0.1-3.2.1.i386.rpm
```

2. Set the kernel parameters for the Linux kernel you are running. This is done by appending the following to the /etc/sysctl.conf file

```
kernel.shmmax=2147483648  
kernel.sem=250 32000 100 128  
fs.file-max=65536  
net.ipv4.ip_local_port_range=1024 65000  
net.core.rmem_default=262144  
net.core.wmem_default=262144  
net.core.rmem_max=262144  
net.core.wmem_max=262144
```

3. The next step is to create the oracle user

```
su - root  
groupadd dba # group of users to be granted SYSDBA system privilege  
groupadd oinstall # group owner of Oracle files  
useradd -c "Oracle software owner" -g dba -G oinstall oracle  
passwd oracle
```

4. Set the oracle user shell limits. Edit the file /etc/security/limits.conf appending the following entries:

```
oracle soft nfile 4096  
oracle hard nfile 63536  
oracle soft nproc 2047  
oracle hard nproc 16384
```

5. Reboot the machine to makes sure all the settings have taken hold. Check through a sample of kernel parameters that have been set. Use `sysctl -a | grep <parameter>`

6. Login as the user oracle and set the shell environments by modifying `~oracle/.bash_profile` to including the following

```
export ORACLE_BASE=/<your oracle base>
export ORACLE_SID=<db sid>
. oraenv
```
7. Ensure the user oracle has permissions to write on the `$ORACLE_BASE` directory and the location for storing database files.
8. Make a backup copy of the file `/etc/redhat-release` file and replace the contents of the original file with the following
[Red Hat Enterprise Linux AS release 3 \(Taroon\)](#)
9. As the user oracle run the `runInstaller` program to install oracle, however ensure you copy the modified version of the `gennttab` file (See Appendix) into `$ORACLE_HOME/bin` directory between 40% complete and 84% complete.
10. This completes successfully, now run DBCA to create the database.

Appendix

genttab file

```
:
#
#
# gentttab generates ntcontab.o
# usage: gentttab [ -n protocol-name ... ]
#   -n: do not include protocol adapters with given names
#
# generates .s file for SunOS 5, AIXRIOS, SVR4_386, NCR
#       .c file for all others
#

if [ "$ORACLE_TRACE" ]; then
    set -x
fi

    UNAME=/bin/uname
    PLATFORM=`$UNAME`

if [ $PLATFORM = "SunOS" ] || [ $PLATFORM = "SOL" ]; then
    NM=/usr/ccs/bin/nm
    SED=/usr/bin/sed
    AWK=/usr/bin/awk
    GREP=/usr/bin/grep
    EXPR=/usr/bin/expr
    LN=/usr/bin/ln
    ECHO=/usr/bin/echo
elif [ $PLATFORM = "Linux" ]; then
    NM=/usr/bin/nm
    SED=/bin/sed
    AWK=/usr/bin/awk
    GREP=/bin/grep
    EXPR=/usr/bin/expr
    LN=/bin/ln
    ECHO=/bin/echo
else
    NM=/usr/bin/nm
    SED=/usr/bin/sed
    AWK=/usr/bin/awk
    GREP=/usr/bin/grep
    EXPR=/usr/bin/expr
    LN=/usr/bin/ln
    ECHO=/usr/bin/echo
fi

if [ -z "$TMPDIR" ] ;
then
    TMPDIR=/tmp

fi

VER=10

#####
NMOPTS=

#####

if [ "x$1" = "x-64" ] ; then
    LIB=lib64
else
    LIB=lib
fi
```

```

LIBPATH=${ORACLE_HOME}/${LIB}
LIBNET="libn${VER}"
LIBNETPATH=${LIBPATH}/${LIBNET}
TRANSPORTS="US TCP BEQ TCPS DCE NMP RAW SDP"
TtoINI="US:ntusini TCP:nttini BEQ:ntpini TCPS:ntzini DCE:ntodrini NMP:ntnini RAW:ntrini
SDP:nttsdpini"
TtoBAS="US:ntus TCP:ntt BEQ:ntp TCPS:ntz DCE:ntodr NMP:ntn RAW:ntr SDP:ntt"
TtoNAM="US:IPC TCP:TCP/IP BEQ:BEQueath TCPS:SSL DCE:DCE NMP:NamedPipes RAW:RAW SDP:SDP"
TtoLIB="US:us TCP:tcp BEQ:beq TCPS:tcps DCE:dce NMP:nmp RAW:raw SDP:tcp"

trap 'rm -f ${TMPDIR}/net$$; for T in $TRANSPORTS; do ; rm -f ${TMPDIR}/${T}$$; done ;
exit 0' 1 2 15

    $NM $NMOPTS ${LIBNETPATH}.* > ${TMPDIR}/net$$ 2> /dev/null

for T in $TRANSPORTS; do
# Default is to use all available drivers
eval NTUSE$T="true"

LIB=`$ECHO ${TtoLIB} | $SED 's/ /\n/g' | $GREP "^${T}:" | $AWK -F: '{print $2}'`
INI=`$ECHO ${TtoINI} | $SED 's/ /\n/g' | $GREP "^${T}:" | $AWK -F: '{print $2}'`
BAS=`$ECHO ${TtoBAS} | $SED 's/ /\n/g' | $GREP "^${T}:" | $AWK -F: '{print $2}'`

if [ -z "${LIB}" ] ; then
    $LN -s ${TMPDIR}/net$$ ${TMPDIR}/${T}$$
else

    $NM $NMOPTS ${LIBPATH}/libn${LIB}${VER}.* > ${TMPDIR}/${T}$$ 2> /dev/null

fi

if [ "`$GREP ${INI} ${TMPDIR}/${T}$$ 2> /dev/null`" = "" ]; then

    eval NTUSE${T}="false"
fi
done

# clean up temp files
rm -f ${TMPDIR}/net$$
for T in $TRANSPORTS; do
    rm -f ${TMPDIR}/${T}$$
done
#
# Now begins the big divide between SunOS 5 and the rest of the world...
#
#
# Now begins the big divide between AIXRIOS and the rest of the world...
#
USE_AS=${USE_AS:=false}
if [ "$USE_AS" = "true" ] && [ "$SRCHOME" = "" ]; then
    $ECHO ""
else # USE_AS

$ECHO '/*'
$ECHO '***'
$ECHO '*** This file is GENERATED by gennttab'
$ECHO '***'
$ECHO '*/'
'

$ECHO "#include <sys/types.h>"
"

# the following is taken from ntdrv.h
$ECHO '/* NT driver descriptor */'
struct ntdrv
{
    char    *ntdrvdes;                /* NT driver designator */
    void    (*ntdrvini)(              /* NTCONNECT - NT driver init function */
                /*_ ptr_t gbl, struct ntpa *pactx _*/ );
    char    *ntdrvsini;              /* Name of INIT func */
    char    *ntdrvmod;              /* NT driver module */
};

```

```

typedef struct ntdrv ntdrv;
'

if [ "${NTUSEDCE}" = "true" ]
then
$ECHO "void ntodrini();"
fi

if [ "${NTUSETCP}" = "true" ]
then
$ECHO "void nttini();"
fi

if [ "${NTUSETCP}" = "true" ]; then
$ECHO "void ntzini();"
fi

if [ "${NTUSESDP}" = "true" ]; then
$ECHO "void nttsdpini();"
fi

$ECHO "void ntrini();"

$ECHO "void ntpini();"

$ECHO "void ntusini();"

if [ "${NTUSENMP}" = "true" ]
then
$ECHO "void ntnini();"
fi

# the protocol table
$ECHO "ntdrv ntcontab[] = {"
#Add the DCE adapter
if [ "${NTUSEDCE}" = "true" ]
then
$ECHO '
{ "dce", ntodrini, "_NTODRINI", "ntodr" },
'
fi

# Add the TCP adapter
if [ "${NTUSETCP}" = "true" ]
then
$ECHO '
{ "tcp", nttini, "NTTINI", "ntt" },
'
fi

# Add the SSL adapter
if [ "${NTUSETCP}" = "true" ]; then
$ECHO '
{ "tcps", ntzini, "NTZINI", "ntcps" },
'
fi

# Add the SDP adapter
if [ "${NTUSESDP}" = "true" ]; then
$ECHO '
{ "sdp", nttsdpini, "NTTSDPINI", "ntt" },
'
fi

# RAW Bequeath and IPC PAs always included
$ECHO '
{ "raw", ntrini, "_NTRINI", "ntr" },
'
$ECHO '
{ "beq", ntpini, "_NTPINI", "ntp" },
'
$ECHO '
{ "ipc", ntusini, "_NTUSINI", "ntus" },
'

```

```

# Add the Named pipes adapter
if [ "${NTUSENMP}" = "true" ]
then
$ECHO '
{ "nmp", ntnini, "_NTNINI", "ntn" },
'
fi
# Add the OSI adapter
if [ "${NTUSEOSI}" = "true" ]
then

$ECHO '
{ "osi4", snto4in, "_snto4in", "nto4" },
'

fi
# Add the LU6.2 adapter
if [ "${NTUSELU62}" = "true" ]
then
$ECHO '
{ "lu62", ntlini, "_ntlini", "ntl" },
'
fi
# Add the async adapter
if [ "${NTUSEASYNC}" = "true" ]
then
$ECHO '
{ "async", ntasgini, "_ntasgini", "ntas" },
'
fi

$ECHO " { 0, 0, 0, 0};"

$ECHO '/* no. of connect table entries */
'

$ECHO "const int ntconent = sizeof(ntcontab)/sizeof(ntcontab[0]) - 1;"

fi # USE_AS

```