

## HOW TO ACCESS CPLEX:-

1) To connect Agni (IP: 10.110.1.4) ; use either 'ssh' or 'telnet' as follows:

### For **Windows**

a) If you are using a Gateway then go to START-->Run

Type: telnet 10.110.1.4 <press enter>

b) If you are in hostel (not using Gateway) then go to START-->Run

Type: telnet <proxy server IP> <press enter>

### For **Linux**

a) Open a terminal window and type: telnet 10.110.1.4

[root@emperor root]\$ telnet 10.110.1.4 <press enter>

-----OR-----

b) Open a terminal window and type: ssh <username>@10.110.1.4

[root@emperor root]\$ ssh [niveshkr@10.110.1.4](#) <press enter>

Subsequently you will be asked for Login & Password or only password (In case of ssh)

2) Once you logged in you will get command prompt as:

```
=====
Filesystem      usage quota limit   timeleft files quota limit
timeleft
/pg             176266 200000 200000          439   0   0
bash-2.05$
```

```
=====
type 'tcsh' to make the prompt "agni:~ >"
as follows:
```

```
=====
bash-2.05$ tcsh <press enter>
agni:~ >
```

3) Now to use CPLEX type 'cplex' as follows:

```
=====
agni:~ >cplex <press enter>
Failed to initialize CPLEX environment.
CPLEX Error 32201: ilm: CPLEX: cannot connect to token server on "agni".
Exiting
agni:~ >
```

If above error occurs that means 'daemon' is killed by server. You cannot use CPLEX.

4) To start 'daemon'

a) Go to directory '/pkgs/ilog/ilm/' by using change directory command as follows:

```
=====
agni:~ >cd /pkgs/ilog/ilm/ <press enter>
agni:/pkgs/ilog/ilm >
=====
```

b) Start daemon by using 'ilmd &' command and you will get message indicating licence info as shown below

```
=====
agni:/pkgs/ilog/ilm >ilmd & <press enter>
[1] 5480
agni:/pkgs/ilog/ilm >Oct 27 23:10:09 0 ILOG License Manager v2.60 [pid 5480]
Oct 27 23:10:12 x Using license file "/pkgs/ilog/ilm/access.ilm"
Oct 27 23:10:14 b TOKEN reservation period = 0 sec
Oct 27 23:10:16 4 Licensed to "iitb-india"
Oct 27 23:10:18 W Tokens for CPLEX: 10 any
Oct 27 23:10:18 A Tokens for OPLStudio: 10 any
=====
```

Now press 'CTRL+c' to come back to command prompt.

Now CPLEX can be run as stated in step 3. You will get following message:

```
=====
agni:/pkgs/ilog/ilm >cplex <press enter>
Oct 27 23:15:12 Q --> CPLEX <solaris> v9.100 used by ambre@agni,
usage=ILOCPX17BD
ILOG CPLEX 9.100, licensed to "iitb-india", options: e m b q
```

Welcome to CPLEX Interactive Optimizer 9.1.0  
with Simplex, Mixed Integer & Barrier Optimizers  
Copyright (c) ILOG 1997-2005  
CPLEX is a registered trademark of ILOG

Type 'help' for a list of available commands.

Type 'help' followed by a command name for more information on commands.

CPLEX> <this indicates cplex is ready to use>

```
=====
```

CPLEX COMMANDS:

It is easy to learn all cplex commands by initially typing 'help' and then exploring it.

Sample examples (Java, C++, opl) for 'oplrun' can be found in directory  
'/pkgs/cplex/OPL4.0/opl40/examples/'

Similarly some examples on CPLEX interactive mode (one explained above)  
can be  
found in directory '/pkgs/cplex/CPLEX9.1/cplex91/examples/data'

CPLEX User Mannuals are available in the directory  
'/pkgs/cplex/CPLEX9.1/cplex91/doc'

Opl User Mannuals are available in the directory  
'/pkgs/cplex/OPL4.0/opl40/doc'