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# vILP - CPP - Operating System

# **Command for searching files**

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# Find command

The command find is one of the powerful utility of Unix (or Linux). It can search the entire file-system to locate files and directories according to the specific search criteria. Other than searching files in can perform actions(executing commands) on searched files.

# Syntax:

```
$ find <search-in directory> <search-parameter> <action>
```

# Examples:

# 1. File Type based Search:

>> The following command finds the file named Abc in current(.) directory and all its sub-directories

```
[390119@InGhyUnix ~]$ find . -name Abc
./Abc
./Dir1/Abc
```

>> To find a directory named bin from root (/) directory and all its sub-directories the command will be:

```
[390119@InGhyUnix ~]$find / -name bin -type d
/bin
/usr/bin
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64/jre/bin
```

The -type d option searches for the file of type directory

- 2. Wild-Card based Search: Wild-card characters like \* and? can be used:
- >> To find all files where filename starts with Abc the command will be:

```
[390119@InGhyUnix ~]$ find . -name "Abc*"

./Abc
./Dir1/Abc
./Dir1/Abc.php
./Abc.txt
./Abc.dat
```

>> The following command finds all files with three character extension ended with t.

```
[390119@InGhyUnix ~]$ find . -name "Abc.??t"

./Abc.txt

./Abc.dat
```

### 3. Source Location based Search

>>The command find can search in multiple source location :

```
[390119@InGhyUnix ~]$ find Dir1 Dir2 -name "Abc.*"

Dir1/Abc.php

Dir2/Abc.htm
```

Searches for the file Abc with any extension only in directories Dir1 and Dir2

- **4. Size Based Search:** Using find files can be searched based on its size.
- >> To find the files with size more than 10Mb the command will be

```
[390119@InGhyUnix ~]$ find . -size +10M ./Abc.dat
```

>> To find the files with size smaller than 2048 bytes the command will be

```
[390119@InGhyUnix ~]$ find . -size -2048c
./Abc
./Abc.txt
```

- **5** . Access/Modification-Time Based Search : Using find files can be searched based on the time of last access/modification :
- >> To find the files which are accessed within last 3 days the command will be

```
[390119@InGhyUnix ~]$ find . -atime -3
```

>> To find the files which are not modified within last 30 minute the command will be

```
[390119@InGhyUnix ~]$ find . -not -mmin -30
```

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- **6** . **Permission Based Search** : Using find command files can be searched based on the access permission they have
- >> To find the files having read write and execute permission only for the owner the command will be:

```
[390119@InGhyUnix ~]$ find . -perm 700 ./Abc.txt
```

- **7**. **Perform Action on the search result**: Using exec option any action (command) can be executed on the search result.
- >> To remove all the files having extension .swp from the current directory the command will be :

```
[390119@InGhyUnix ~]$ find . -name "*.swp" -exec rm {} \;
```