

Installing the Intel® Vtune™ Performance Analyzer sampling collector on Mobile Internet Devices (MID)

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Using install scripts

Note: during the installation you will be presented with the following choice

a> Would you like to have the VTune driver automatically load at the kernel boot time? (y/n) [y] ... Answer y or as appropriate to you

b> Would you like to try and build the driver?(y/n)[y]..... Answer y

c> Would you like to load the new VTune driver now?(y/n)[y]..... Answer y or as appropriate to you

- 1) Log into target MID Linux* system as root.
- 2) Copy the Intel® Vtune™ Performance Analyzer for MID target package onto the Linux system and unpack it there:

```
$ gunzip vtune90u9_target.tar.gz
```

```
$ tar -xf vtune90u9_target.tar
```

```
$ cd vtune90u9_target/
```

- 3) Install libstdc++5 package.

```
sudo apt-get install libstdc++5
```

- 4) Install the linux headers.

```
sudo apt-get install linux-headers-2.6.22-14-lpiacompat
```

or

```
sudo apt-get install linux-headers-2.6.22-14-lpia
```

- 5) Run the install-vtune-sep.sh script to install the software.

Running the Intel® Vtune™ Performance Analyzer Sampling Collector for Mobil Internet Devices

- 1) Ensure that the sampling driver is loaded in the kernel and current user can access the driver:

```
$ cd /path/to/vdk[[BR]]
```

```
$ grep ^DRIVER_GROUP insmod-vtune.sh # make sure
DRIVER_GROUP is set to a
```

```
example, "users") # local group (for
```

```
is a member # and the current user
```

```
# of that group
```

```
$ ./insmod-vtune # load the driver
```

2) To perform sampling, use the sampling collector tool:

```
$ cd /tmp
```

```
$ sep -start -d 20 -out myData
```

3) To view resulting data:

Use the command lines sampling viewer tool:

```
$ cd /tmp
```

```
$ sfdump5 myData.tb5 -processes #
display results by Process View
```

```
$ sfdump5 myData.tb5 -modules #
display results by Module View
```

```
$ sfdump5 myData.tb5 -hf -mn vmlinux #
display all kernel functions that have samples
associated with them
```

OR

You can of course also copy the *.tb5 sampling results file over to your host system and use the full featured Intel® Vtune™ Performance Analyzer for graphical user interface supported analysis of your gathered performance data.

4) For further information on the tools, run:

```
$ sep -help
```

```
$ sfdump5 -help
```

Note: You might have to login as root to run the sep tool

5) To get the list of supported events, run:

```
$ sep -el |more
```