Use of USB Stick

David Boger and Brent Craven
Penn State University
6th OpenFOAM Workshop
13-16 June 2011

Please note: This offering is not approved or endorsed by OpenCFD® Limited, the producer of the OpenFOAM® software and owner of the OpenFOAM® and OpenCFD® trademarks.
what’s on the USB Stick?

- bootable 4GB with Ubuntu 10.04
- OpenFOAM 1.6-ext and OpenFOAM 1.7.1
- Other stuff
  - eclipse, enGrid, ParaView, pyFoam, pythonFlu, swak4Foam and more
- Persistent Memory (< 600 MB!)
  - can be filled by late submissions if you “Update Workshop Material”
  - can be filled by training examples
  - can be filled by simulation data
acknowledgments

- OFW5 stick team
  - Henrik Rusche
  - Oliver Borm
  - Bernhard Gschaider

- OFW6 ISO file
  - Bernhard Gschaider

- Stick Burning
  - Jason Holmes / PSU ITS
reasons why
it might not work

You might not be able to boot from the stick if

- you are a Mac user
- you are not allowed to insert the stick
- you are not allowed to alter the boot menu
- your BIOS does not allow it

Fall into one of these categories? We’ll come back to you...
how it should work

- **power off** your laptop
- insert the stick
- **power on** your laptop
- select *Try Kubuntu without installing*
- **No luck?**
  - Reboot (but **be prepared** to enter the boot menu when prompted)
  - Enter the boot menu (hit F2, F12, DEL, etc. as prompted)
  - Choose to boot from the USB device (once or always)
why

it could stop working

- the persistent space is very limited
- if you can boot from the stick but get strange behavior, check your disk space (i.e. your persistent space)
  - open a terminal
  - df -h
  - watch `aufs` and `/dev/sde1` (/cdrom)
how to avoid the stick and use VirtualBox

- [www.virtualbox.org](https://www.virtualbox.org)

- From the **Downloads** page
  - Download the appropriate binary for VirtualBox
  - **..and** the Oracle VM VirtualBox Extension Pack

- Get the OFW6 ISO file
  - **During** the workshop:
    - http://rcc.its.psu.edu/ofw6/
  - **After** the workshop:
    - sourceforge.net/projects/openfoam-extend/
how to
create a virtual machine

After installing VirtualBox, create a virtual machine based on the OFW6 ISO file following these instructions:

- Launch the VirtualBox application.
- Click the New icon to create a new virtual machine.
- Name the machine (e.g. OFW6-Kubuntu)
- Choose the operating system as Linux and Ubuntu
- Choose defaults for RAM and hard drive settings
- Under the Storage settings, click on the Empty CD icon listed under IDE Controller, then click on the CD icon pictured in the Attributes section for the CD / DVD drive and select the OFW6 ISO file.
- Click the Start icon to boot the new virtual machine.
- When prompted, select Try Kubuntu without installing.
how to get on the internet

- Connect to visitor wireless network **attwifi**
- **Open web browser** to AT&T Wi-Fi web screen
- Enter **access code** from your **daily prepaid coupons** (distributed at registration)

- **Support:**
  - 1-888-888-7520
  - wireless.psu.edu/visitorwireless.html
Stuck?

- Ask!
- www.personal.psu.edu/dab143/OFW6/Instr.htm
- http://web.student.chalmers.se/groups/ofw5/Instr.htm
- openfoamwiki.net/index.php/USB-Stick

Materials mirror

- www.personal.psu.edu/dab143/OFW6