NWFLUG Meeting Agenda

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Agenda

- Welcome
- Computer Tech 2016
- NWFLUG Computer Science Award
- Atom editor (Tom)
- Linux utilities: ls* (Tom)
- Open floor
- Next meeting

Welcome

- We welcome new members and old.
- Please put your name on the attendance list and pass it around.
- We also welcome Perl 6 whose first, stable release was announced on Christmas Day, 2015! See http://perl6.org for details.

Computer Tech 2016

- 30 January 2016 at the Student Services Center, NWFSC. See https://computertechnwf.org for details and registration.
- Doors open at 0730
- So far ONLY TWO from this group have registered!
- Speakers should register.
- I still need someone to man the NWFLUG table in the morning. Taking turns would be great!



So far we have raised \$60.00 for the award. We need \$100.00.



New to me, but looks good. See it at https://atom.io/>.

Linux utilities: ls*

From the December issue of the Linux Journal: the 'ls' family of utilities get info from the **/proc** file system:

- Isblk produces info about all block devices such as hard disks
- Iscpu shows info like number of CPUs, cores, and threads
- Ishw lists general hardware data
- Ispci displays info about PCI buses and attached devices
- Isscsi displays info on all attached SCSI devices or hosts
- Isusb generates info about attached USB buses and devices

Isblk

Isblk - produces info about all block devices such as hard disks

```
$ lsblk
NAME
      MAJ:MIN RM
                  SIZE RO TYPE MOUNTPOINT
sda
        8:0
              0 931.5G 0 disk
|-sda1 8:1
                  100M 0 part
1-sda2 8:2
              0 393.5G 0 part
I-sda3 8:3
                  286M 0 part /boot
I-sda4 8:4
                    1K 0 part
I-sda5 8:5
              0 1.9G 0 part [SWAP]
I-sda6 8:6
              0 93.1G 0 part /
'-sda7 8:7
              0 442.6G 0 part /usr/local
sr0
      11:0
                 1024M
                       0 rom
```

Iscpu

Iscpu - shows info like number of CPUs, cores, and threads

```
$ lscpu
Architecture:
                       x86_64
CPU op-mode(s):
                        32-bit, 64-bit
Byte Order:
                       Little Endian
CPU(s):
On-line CPU(s) list:
                        0,1
Thread(s) per core:
Core(s) per socket:
Socket(s):
NUMA node(s):
Vendor ID:
                        GenuineIntel
CPU family:
Model:
                        23
Stepping:
                        10
```

Iscpu (continued)

CPU MHz: 800.000
BogoMIPS: 5585.96
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 6144K
NUMA node0 CPU(s): 0,1

Ishw - lists general hardware data (only on DMI capable hosts)

A partial response:

```
$ 1shw
WARNING: you should run this program as super-user.
WARNING: output may be incomplete or inaccurate, you should run this program as
juvat2
    description: Computer
    width: 64 bits
    capabilities: vsyscall32
  *-core
       description: Motherboard
       physical id: 0
     *-memory
          description: System memory
          physical id: 0
          size: 3854MiB
```

Ispci - displays info about PCI buses and attached devices

```
$ lspci
00:00.0 Host bridge: Intel Corporation 82G33/G31/P35/P31 Express DRAM Controlled
00:01.0 PCI bridge: Intel Corporation 82G33/G31/P35/P31 Express PCI Express Roc
00:1a.0 USB controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Control
00:1a.1 USB controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Control
00:1a.2 USB controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Control
00:1a.7 USB controller: Intel Corporation 82801I (ICH9 Family) USB2 EHCI Control
00:1b.0 Audio device: Intel Corporation 82801I (ICH9 Family) HD Audio Controlled
00:1c.0 PCI bridge: Intel Corporation 82801I (ICH9 Family) PCI Express Port 4
00:1c.3 PCI bridge: Intel Corporation 82801I (ICH9 Family) PCI Express Port 4
00:1c.4 PCI bridge: Intel Corporation 82801I (ICH9 Family) PCI Express Port 5
00:1d.0 USB controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Control
00:1d.1 USB controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Control
00:1d.2 USB controller: Intel Corporation 82801I (ICH9 Family) USB UHCI Control
```

Ispci (continued)

```
00:1d.7 USB controller: Intel Corporation 82801I (ICH9 Family) USB2 EHCI Controller. 00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev 92) 00:1f.0 ISA bridge: Intel Corporation 82801IB (ICH9) LPC Interface Controller 00:1f.2 IDE interface: Intel Corporation 82801IB (ICH9) 2 port SATA Controller 00:1f.3 SMBus: Intel Corporation 82801I (ICH9 Family) SMBus Controller (rev 02) 00:1f.5 IDE interface: Intel Corporation 82801I (ICH9 Family) 2 port SATA Controller 01:00.0 VGA compatible controller: NVIDIA Corporation GT218 [GeForce 210] (rev
```

01:00.1 Audio device: NVIDIA Corporation High Definition Audio Controller (rev

04:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI 05:00.0 Ethernet controller: VIA Technologies, Inc. VT6105/VT6106S [Rhine-III]

03:00.0 IDE interface: JMicron Technology Corp. JMB368 IDE controller

Isscsi

Isscsi - displays info on all attached SCSI devices or hosts

Isusb

Isusb - generates info about attached USB buses and devices

```
$ 1susb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 004 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 005 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 005 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 006 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 007 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 008 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 004 Device 002: ID 045c:5800 Broadcom Corp. BCM5880 Secure Applications Pro
Bus 006 Device 002: ID 0461:4d22 Primax Electronics, Ltd
```



Any new business, discussion, or comments?

Next meeting

Next meeting is 2016-02-01.

Ideas?

That's all, folks!

Spread the word!