

## LinHES - Feature # 574: update kernel package to 2.6.32 (when it gets released) - speed increases in multicpu scheduling

|                     |   |                  |            |
|---------------------|---|------------------|------------|
| <b>Status:</b>      | Closed  | <b>Priority:</b> | Normal     |
| <b>Author:</b>      | graysky   | <b>Category:</b> | Kernel     |
| <b>Created:</b>     | 11/09/2009  | <b>Assignee:</b> | cecil      |
| <b>Updated:</b>     | 12/12/2010  | <b>Due date:</b> | 01/10/2011 |
| <b>Description:</b> | <p>When 2.6.32 gets released (currently 2.6.32-rc6), please add it to LinHES. There have been some significant improvements in the scheduler as it applies to multi-core CPUs. These are adventagous to users who transcode their mpg-2 to x264. In some cases, increases of 80 % have been reported. I have seen an increase in over 50 % on my X3360 encoding x264.</p> <p>Example encoding a 1280x720, 60 fps MPEG-2 clip under various kernels on my Arch box:</p> <p>Linux (kernel 2.6.31.5): avg 15.99 fps<br/>Linux (kernel 2.6.32-rc6): avg 24.45 fps<br/>Linux (kernel 2.6.31-bfs): avg 24.49 fps</p> <p>53 % faster w/ the new kernel which is on par with Con Kolivas' brain fuck scheduler (bfs)! Also, CPU usage while encoding goes up to 99-100 % on all four cores now. Before it would rest around 70-80 %.</p> <p>References and related discussions:</p> <p><a href="http://x264dev.multimedia.cx/?p=185">http://x264dev.multimedia.cx/?p=185</a></p> <p><a href="http://bbs.archlinux.org/viewtopic.php?id=83957">http://bbs.archlinux.org/viewtopic.php?id=83957</a></p> |                  |            |

### Associated revisions

#### 11/06/2010 11:41 am - jams

kernel26: update to 2.6.36

closes #574

ref #647

#### 11/06/2010 11:42 am - jams

lirc: update to 0.8.7

ref #574

ref #647

closes #599

#### 11/06/2010 11:42 am - jams

lirc-utils: update to 0.8.7

ref #574

ref #647

ref #599

#### 11/06/2010 11:44 am - jams

madwifi: recompile and update for new kernel

ref #574

ref #647

#### 11/06/2010 11:45 am - jams

ndiswrapper: recompile for new kernel .36

ref #574

ref #647

**11/06/2010 11:45 am - jams**

nvidia: update 260.19.12

ref #574

ref #647

**11/06/2010 11:45 am - jams**

nvidia-utils: update to 260.19.12

ref #574

ref #647

**11/06/2010 11:47 am - jams**

tiacx: update and recompile for kernel .36

ref #574

ref #647

## History

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**11/25/2009 04:49 pm - cecil**

After 6.02 is released, we'll be working on 6.03. 6.03 will be a major upgrade. Not only will the kernel be upgraded but so will X and other items.

**12/04/2009 06:48 am - stonewalker**

I know not Flyspray. John, do you have the ability to switch the "Due in Version" to 6.03.00 since you opened it?

**12/04/2009 01:01 pm - graysky**

@Don - nope, I think only the admins can do that. BTW, 2.6.32 went final yesterday.

<http://kernel.org>

**12/09/2009 11:17 am - stonewalker**

Greatly improved encoding & transcoding is a good thing.

However, I don't see the BFS added to the mainline kernel tree. This would be another 'out of tree' patch to manage for LinHES. How many does LinHES carry already? Is it a big deal to add another one, or is it not?

**04/20/2010 12:54 pm - brfransen**

- *Target version set to 7.1*

- *Due date set to 08/08/2010*

- *Category set to Kernel*

**06/08/2010 11:25 am - brfransen**

- *Tracker changed from Bug to Feature*

**06/13/2010 11:05 pm - dfdarío**

Please consider to apply these patches to the kernel:

<https://bugs.launchpad.net/mythbuntu/+bug/439163>

and

[http://bugs.freedesktop.org/show\\_bug.cgi?id=23916](http://bugs.freedesktop.org/show_bug.cgi?id=23916)

**10/11/2010 07:17 am - dfdario**

Merely keep you informed about evolutions.

As reported in site [\[\[https://bugs.launchpad.net/mythbuntu/+bug/439163\]\]](https://bugs.launchpad.net/mythbuntu/+bug/439163) bug seems solved in 2.6.35

**10/11/2010 07:57 am - dfdario**

Removed because duplicate

**10/11/2010 08:06 am - dfdario**

Removed because duplicate

**11/06/2010 11:50 am - jams**

- % *Done* changed from 0 to 100

- *Status* changed from *In Progress* to *Closed*

Applied in changeset commit:"905a9563dfab9e88ce41227d60e7099701c8a312".