NumLock is sent in the virtual machine every time when switching focus to the virtual machine window

- Parallels Desktop
- Parallels Desktop for Mac Standard Edition 10
- Parallels Desktop for Mac Standard Edition
- Parallels Desktop for Mac Standard Edition 9 and older

Symptoms

- Num Lock is sent in the virtual machine every time when switching focus to the virtual machine window
- Whenever I press Cmd-Tab to switch back and forth between OS X and the Windows VM, two NumLock keys are sent to the Windows VM

Cause

This is a by-design behavior used for synchronization of **numeric pad** state between Mac and VM.

Resolution

You can change the key used for the synchronization or disable this feature executing the following commands in **Terminal (Finder > /Applications/Utilities/Terminal)**:

Quit Parallels Desktop before executing commands. Otherwise changes will not take affect.

- to disable the synchronization of **numeric pad** state:

```
defaults write 'com.parallels.Parallels Desktop' 'HID Host Hook.LED Sync' -int 0
```

- to make Parallels Desktop use and send **NumLock** button for the synchronization:

```
defaults write 'com.parallels.Parallels Desktop' 'HID Host Hook.LED Sync' -int 1
```

  Please note that Numlock is used by default.

- to make Parallels Desktop use and send **ScrollLock** button for the synchronization:

```
defaults write 'com.parallels.Parallels Desktop' 'HID Host Hook.LED Sync' -int 2
```

- to make Parallels Desktop use and send **CapsLock** button for the synchronization:

```
defaults write 'com.parallels.Parallels Desktop' 'HID Host Hook.LED Sync' -int 3
```

- to discard all changes, please use the following command:

```
defaults delete 'com.parallels.Parallels Desktop' 'HID Host Hook.LED Sync'
```

Note the changes will be applied to all virtual machines running on the Mac.

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