

my_former_self's

CM6.1.0 DS STABLE SPEED/TWEAK GUIDE

Tested on: T-Mobile G1 (32B) and a T-Mobile MT3G (32B)

Last Updated: 12.27.2010

DISCLAIMER: READ THE WHOLE GUIDE FIRST BEFORE PROCEEDING! I'm not responsible for loss of data, bricked phones, headaches, the Umbrella Corporation (I quit before the whole "zombie" thing, I swear), thermonuclear war or dogs pooping on your lawn that might result from anything I suggest here. Proceed at your own risk.

DO A NANDROID (OR BART) BACKUP!!!

PREREQUISITES:

- A rooted **G1/Dream** or **MT3G/Sapphire** (Original ONLY! NOT 1.2, LE, Etc)
- **32B** PVT Boards ONLY! ← **IMPORTANT!!!**
- Amon Ra's **1.7.0** Recovery ← **IMPORTANT!!!**
- [MFS CM6 DS Super Pack](#) ← This is an archive & NOT for flashing
MD5Sum: ba1d95e403956d6cb502ee99ecea696
- USB Cable
- Windows PC (XP or Higher) w/at least 1 available USB port
- A brain (in some working order) that is decently familiar w/Android
- Careful, slow reading skills
- ...and maybe a cigar for the triumphal end, if you want. (I'd suggest an **Alec Bradley Tempus**. And use matches only, please. Respect the cigar.)

IMPORTANT: It is HIGHLY suggested that you not only make a *Nandroid backup* (or a *Nandroid+EXT* backup, if you use APPS2EXT), but also a *Bart* backup (includes EXT), as well as use **Titanium Backup** (Pro Version from Market...worth it!) to backup your apps+data (Do a "Force redo of your backups" if you already have backups). Once you've done all that, backup the entire contents of your SD Card's FAT32 partition (the files you see when you enable USB to your computer) to your computer, just for kicks. OK, not "just for kicks," but more like "just in case." Hey, better safe than sorry!

CURRENT APPS2EXT (NOT FROYO2SD) USERS ONLY:

- If you are currently using an APPS2EXT method *other than* one of **Firerat's**, uninstall it before proceeding.
- If you are currently using Firerat's "fr-a2sd_1-**34**.sh" script or higher version number, skip to "**RADIO & SPL UPDATE.**"
- If you are using Firerat's "fr-a2sd_1-**33**.sh" script, or lower version number, please do the following:
 - Place the "**fr-a2sd_1-36c.sh.txt**" file from my archive onto the ROOT of your SD Card (i.e. **NOT** in a folder).
 - Open up Terminal Emulator on your phone and type (brackets are for key stroke reference only):

su[ENTER]

sh[SPACE]/sdcard/fr-a2sd_1-36c.sh.txt[ENTER]

- Follow the prompts. **NOTE:** I'd suggest moving */data/data* to your card, when asked. Saves internal space.
- Reboot and move on to the next section.

***NOTE:** If you're wondering WHY we did this, it's because when we (optionally) eventually install Firerat's "Magpie" APPS2EXT port, it will not automatically remove any fr-a2sd_1-33.sh or lower scripts, just 34 and higher. So, it's just easier to update them, then allow "Magpie" to do its thing for us.*

RADIO & SPL UPDATE:

NOTE: If you have either the **2.22.27.08** or **2.22.28.25** radio *and* **1.33.0013/1.33.0013d** SPL installed already, you can skip to "**THE MEAT AND POTATOES**" section.

- Install the [Android SDK](#) to your computer. **NOTE:** Do yourself a favor and install it to the root of your local drive. (Ex. "**C:\android-sdk-windows**"). It just makes it easier, trust me. This tutorial will also assume that this is where you have installed your SDK.
- Place both the **radio-2.22.28.25.img** and the **hboot-1.33.0013d** (or the **hboot-1.33.0013** for **MT3G** users) into the "**C:\android-sdk-windows\tools**" folder on your computer.
- Boot into the bootloader on your phone by holding the **BACK** button while rebooting (or choose "Bootloader" from the reboot screen, if you have that option). The bootloader is that white screen with the 3 skating Androids on it.

- Attach your phone to your computer via the USB cable.
- Open up a command line (**WINDOWS KEY+R**) and type: **"cd C:\android-sdk-windows\tools"** (no quotes) and hit **ENTER**.
- Verify your computer sees your phone by typing: **"fastboot devices"** (again, no quotes) and hit **ENTER**. You should see a line of letters and numbers. This is your phone's device ID, means your phone is recognized and that you can move on. **NOTE:** If the command does NOT return an ID, your computer has not recognized your phone (usually a driver issue). You can [Google that problem](#) on your own like a big boy/girl; I won't cover it here.
- Type: **"fastboot flash radio radio-2.22.28.25.img"** (no quotes) and hit **ENTER**.
- Once the radio flash is complete, type (no quotes, last time I'll say it):
 - **"fastboot flash hboot hboot-1.33.0013d.img"** and hit **ENTER** (for **G1's**)
 - **"fastboot flash hboot hboot-1.33.0013.img"** and hit **ENTER** (for **MT3G's**)
- Wait until the hboot is done flashing, then type: **"fastboot reboot-bootloader"** and hit **ENTER**.
- Once we're rebooted, you should now see the new radio and SPL at the top.
- Press **MENU** to power off.

THE MEAT AND POTATOES:

- Reboot into recovery and wipe everything. I mean it. Everything. Factory Settings, Cache, EXT, Bat Stats & Rotate Stats. You have no idea how many problems could have been alleviated if people would have just done a proper wipe.
- Connect to your computer with your USB cable (if you aren't still) and enable USB from the recovery menu.
- Copy the **"ezBiffTestKernel20101106-2708_S.zip"** file to the ROOT of your SD Card.
 - **OPTIONAL:** If you are installing from scratch or are coming from CM6.0, CM6.1RC or a CM Nightly, also copy the **"update-cm-6.1.0-DS-signed.zip"** over, as well. Also, copy over **"gapps-mdpi-tiny-20101020-signed.zip"**, if this is a "from scratch" install.
 - **OPTIONAL:** If you use/want APPS2EXT, copy the **"update-cm-6.1.0-Magpie-DS-signed.zip"** and **"FR-MDPI-HotFix001_S.zip"** files over, as well.
- Unmount your phone from your computer (properly) and then disable USB by pressing the **HOME** button on your phone.
- Now, restore your Nandroid, Nandroid+EXT, or Bart backup.

- Once restore is completed, flash (in this order):
 - “**update-cm-6.1.0-DS-signed.zip**” (**ONLY** if you are NOT on CM6.1 Stable)
 - “**update-cm-6.1.0-Magpie-DS-signed.zip**” (**ONLY** if you use/want APPS2EXT)
 - “**gapps-mdpi-tiny-20101020-signed.zip**” (**ONLY** if you are installing from scratch)
 - “**FR-MDPI-HotFix001_S.zip**” (**ONLY** if you use/want APPS2EXT)
 - “**ezBiffTestKernel20101106-2708_S.zip**” (**FLASH NO MATTER WHAT**)
 - Reboot. **NOTE:** *The initial boot may take a decent amount of time. Don't panic. Let it be. If it goes longer than 10 minutes, **then** you should battery pull, re-wipe and start again.*
 - Let it settle in. Now, reboot into recovery.
 - Run a *fix_permissions* (“Fix UID mismatches” under “Other”). Reboot.

HARDER, BETTER, FASTER, STRONGER:

- Install **SetCPU** from the Market (Donate) or from [XDA](#) (Free to members).
 - Launch it and allow root permissions, when asked.
 - Check “Set on Boot” from the Main tab.
 - Press the **MENU** button and choose “Device Selection”>“Autodetect Speeds Recommended”.
 - Adjust the *minimum* slider to **160Mhz** and the *max* to **595Mhz** (or **576Mhz**, if you're not a speed demon and/or are a battery prude). Under the Profiles tab, check “Enable,” then...
 - **YOU'RE A TRUE BATTERY PRUDE!**
 - Under the Profiles tab, enable/create a profile for:
 - “**Screen Off**” and set the *min* to **160Mhz** and the *max* to **352Mhz**, ondemand, and w/a priority of 100.
 - “**Battery <101%**” and set the *min* to **160Mhz** and the *max* to **595Mhz** (or 576Mhz), ondemand, and w/a priority of 99.
 - Press the **MENU** button and select **SETTINGS**.
 - **Under Settings>CyanogenMod settings:**
 - Application settings:
 - Uncheck “Allow application moving”
 - Install Location:
 - **Internal** (for non-APPS2EXT users)
 - **sd-ext** (for APPS2EXT users)*
- *Only available if you flashed Firerat's “Magpie” port

- **Settings>CyanogenMod settings (Cont.):**
 - Performance settings:
 - Compcache RAM Usage: Disabled
 - Use JIT = Unchecked
 - Enabled surface dithering = Unchecked
 - Lock home in memory = CHECKED
 - Lock messaging app in memory = CHECKED
 - VM heap size = $\geq 16m$ (12m is known to cause Market crashes)
 - User interface:
 - Enable overscrolling = Unchecked
- **Under Settings>ADWLauncher:**
 - Screen preferences:
 - Auto Stretch = Unchecked
 - Desktop scrolling speed = ≤ 200
 - Desktop overshoot = ≤ 50
 - Drawer Settings:
 - Animated Drawer = Unchecked
 - Fade app labels = Unchecked
 - General Behavior:
 - Closing folder = CHECKED
 - System Preferences:
 - Scrolling cache = Low Quality or Auto
 - Scrollable widget support = Unchecked
 - System persistent = Unchecked
 - Home Orientation = Portrait
 - UI Settings:
 - Desktop dots = Unchecked
 - Dock Icons Tint = Unchecked
 - Closing dockbar = CHECKED (if you use the dockbar, that is)
 - Show desktop indicator = Unchecked
- **Under Settings>Display Settings:**
 - Brightness: $\leq 50\%$
 - Auto-rotate screen = CHECKED
 - Animation = No Animations or Some Animations
 - Screen timeout = 1 Minute

- **Under Settings>Applications:**
 - Unknown sources = CHECKED
 - Development:
 - USB debugging = CHECKED
 - USB debugging notify = Unchecked
 - Allow mock locations = Unchecked
 - Stop app via long-press = (Your preference, but it's REALLY easy to end the launcher this way)
- **Under Settings>Language & keyboard:**
 - Android keyboard = Unchecked (G1 users only, unless you actually use it)
- Launch **Spare Parts**.
 - Window animations = Off or Fast
 - Transition animations = Off or Fast
 - Fancy input animations = Unchecked
 - End button behavior = Go to sleep ← **IMPORTANT!!!**

NOTE: If there are settings that are NOT addressed, it is considered a “preference” issue and should not adversely affect your performance (just possibly your “phone experience”).

OTHER PERFORMANCE NOTES:

- Don't use swap. I know, I know; you feel like you don't know me anymore (I've always advocated it in the threads). But both phones seem to run better without it with this configuration.
- Don't overdo things like desktop screens, widgets, background app notifications (FB, Twitter, Genie News Widget, etc). Ideally, don't use any widgets or background notifications other than Gmail and your Calendar. But...yeah, I don't live an ideal life, either :) So, shoot for moderation.
- Don't use an AUTO task killer. They don't play nice with Android 2.1 and up.
- **Cachecleaner NG** (free on the Market) is a good way to keep your cache clean. You can do it manually, when you want, or you can set it to auto-clean at different intervals. Personally, I use auto-clean set to every 12 hours with no notifications. It also (optionally) cleans the caches on the SD Card, too.
- Use the [Barebones guide](#) from the CyanogenMod Wiki and get rid of system crap you don't need/use! Stuff like the Genie News app, Live Wallpaper support, etc. **NOTE:** *I recommend using the **adb** method to do this. It's a WHOLE lot faster than rocking the Terminal Emulator.*

BATTERY RECALIBRATION:

- Charge until 100% (not just a green LED).
- Leave plugged in & power off.
- Wait for a green LED.
- Leave plugged in another hour.
- Still plugged in, boot into recovery & wipe battery stats.
- Reboot into the OS, let it settle, then unplug.

WORSE CASE SCENARIO (OTHER THAN BRICKING):

- *“Everything is messed up! Apps missing! Settings gone! Etc!”*
 - Full wipe.
 - Flash from scratch; no Nandroid/Bart restore.
 - Follow the whole guide.
 - Restore your apps+data via Titanium Backup.
 - Reboot to recovery and run *fix_permissions* (“Fix UID mismatches” under “Other”).
 - Bam.

CREDITS & THANKS:

- **Cyanogen & team**, without you our phones would be paper weights.
- **Firerat**, for all your scripts, ports and other genius. And for “Magpie”!
- **EZTerry & Pershoot**, for your kernels.
- **firefly6240**, for providing me with an audience for my Steve Jobs bashing :)
- **FatBoyExtraordinaire**, my unofficial personal agent!
- **ad505**, for being another awesome voice in XDA to newbs in need.
- **_zygo_**, here's your grouping and bullets, good sir :)
- **htccly**, for what you do & stand for. I love you, brother. †
- **XDA Dev Forums**, for being one awesome avenue for learning/teaching.
- **My wonderful wife**, for putting up with me always taking her phone.
- **My God & Savior, Jesus Christ**, for giving me the brain & resources to do what I do and the wisdom to impart it to others. Without You, none of this means a thing.

THREAD LINKS (FOR FILE UPDATES):

[CM6.1.0 DS Thread](#)

[Firerat's “Magpie” Thread](#)

[EZTerry's 2708+ Enabled Kernel Thread](#)