

Android DTS + fstab node requirements

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VBOOT 1.0 DT fstab

```
/ {
  firmware {
    android {
      compatible = "android,firmware";
      fstab {
        compatible = "android,fstab";
        vendor {
          compatible = "android,vendor";
          dev = "/dev/block/platform/soc/624000.ufshc/by-name/vendor";
          type = "ext4";
          mnt_flags = "ro,barrier=1,discard";
          fsmgr_flags = "wait,slotselect,verify";
        };
      };
    };
    ....
  }
}
```

VBOOT 2.0 DT fstab

```
/ {
    firmware {
        android {
            compatible = "android,firmware";
            vbmeta {
                compatible = "android,vbmeta";
                parts = "boot,system,vendor";
            };
            fstab {
                compatible = "android,fstab";
                system {
                    compatible = "android,system";
                    dev = "/dev/block/platform/soc.0/f9824900.sdhci/by-name/system";
                    type = "ext4";
                    mnt_flags = "ro,barrier=1,inode_readahead_blks=8";
                    fsmgr_flags = "wait,avb";
                };
                ...
            };
        };
    };
};
```

First stage ramdisk

- Switch root maintains the system-as-root property
- Needed for logical partitions anyway
- Unifies all Treble / non-Treble device configurations
- Removes the in-kernel DT + fstab
 - Fstab can be added in both /vendor and first stage ramdisk with special flags for “first stage mount” partitions.
- “Boot device” can be passed via kernel command line.

... there's more

- Plan to remove appended device trees to the kernel.
- Boot image header versions were added in Pie.
 - Revised version to also include base device tree.

Discussion