

partman-auto

- `partman-auto`
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-
-
- - `:` `(swap)`
 - `:` `/home`
- `, LVM`
-
-
- -



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- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10015-01 (1.6)
- Astra Linux Special Edition .10015-16 . 1
- Astra Linux Common Edition 2.12

partman-auto



: <https://github.com/xobs/debian-installer/blob/master/doc/devel/partman-auto-recipe.txt>

`partman-auto` , . , , `udeb` (, Debian Installer) `preseed`. .

. . . . ("{}"; . ("").

```
<>::=<>_<>
<>::=< >|< debconf>
< >::=<>_:
```

`<>` , "Multi user system".

`< debconf>::=< debconf>_::`

`< debconf>` .

```
<>::=<>|<>_<>
<>::=<>_<>_.
<>::=< >_<>_< >_< >
```

- `<>` . , 20 12 12. (`partman-auto` 87) (,"2000+50%"), ;
- `<>-` , `<> <>`. . `<>` () `<>`. `<> <>`;
- `<>-` . -1 ;
- `<>-` . `$default_filesystem` (`ext3`).

```
<>::=<>|<>_<>
<>::=< >|< >|< >
< >::=$primary{$_}|$bootable{$_}|$default_filesystem{$_}
```

- `$primary{$_}` - ();
- `$bootable{$_}` - ;
- `$default_filesystem{$_}` - , , (`ext3`).

`< >::=< >{ < > }`

- `<file name>` - , (. 2.4 `partman`);
- `<file contents>` - , .

```
< >:=$lvmok{_|}$defaultignore{_|}$lvmignore{_|}
```

- \$lvmok{_-}, LVM LVM;
- \$defaultignore{_-} - (LVM);
- \$lvmignore{_-} - LVM (LVM)

defaultignore lvmignore , , /boot LVM- -LVM .

: (swap)

```
partman-auto/text/atomic_scheme:
500 10000 1000000 ext4
$primary{ }
$bootable{ }
method{ format }
format{ }
use_filesystem{ }
filesystem{ ext4 }
mountpoint{ / } .

64 512 300% linux-swaps
method{ swap }
format{ } .
```

,:

- root 500 . swap 64 ;
- \$bootable{ } , \$primary{ } .

, :

- method{ format } - , . (swap) "swap". "keep" ();
- format{ } - , ;
- use_filesystem{ } - , ;
- filesystem{ ext4 } - ;
- mountpoint{ / } - . , , "nodev,ro":

```
options/nodev{ nodev }
options/ro{ ro }
```

., "astralinux":

```
label{ astralinux }
```

,:

```
method{ format }
```

: , /home

partman-auto/text/home_scheme:

```
300 4000 7000 ext4
    $primary{ }
    $bootable{ }
    method{ format }
    format{ }
    use_filesystem{ }
    filesystem{ ext4 }
    mountpoint{ / } .

64 512 300% linux-swap
    method{ swap }
    format{ } .

100 10000 10000000000 ext4
    method{ format }
    format{ }
    use_filesystem{ }
    filesystem{ ext4 }
    mountpoint{ /home } .
```



, .

, LVM

```
"lvm" . , , , , .
, ., (,/boot) . :
```

```
100 1000 10000000000 ext4
    $defaultignore{ }
    $primary{ }
    method{ lvm }
    device{ /dev/hdb }
    vg_name{ vg00 } .
```

```
"device{ ...}" "vg_name{ }".
device    partman-auto/disk.
, , "in_vg{ }",:
```

```
96 512 300% linux-swap
    $lvmok{ }
    in_vg{ vg00 }
    lv_name{ myswap }
    method{ swap }
    format{ } .
```

```
"lv_name{ }" , .
```

., ., NewWorld PowerMAC , . :

```
1 1 1 hfs
    $bootable{ }
    method{ newworld } .
```

— netwinder, /boot, ext2 0:

```
50 500 100 ext2
$primary{ }
$bootable{ }
method{ format }
format{ }
use_filesystem{ }
filesystem{ ext2r0 }
mountpoint{ /boot } .
```

,, EFI ia64:

```
100 100 150 fat16
$primary{ }
method{ efi }
format{ } .
```

. udeb- partman_auto.

- partman-auto , , . /home, 1000000000, . /home , 1000000000, "keep" . .

, N min[i], max[i] priority[i] — , i 1 .
free_space — .:

```
for(i=1;i<=N;i++) {
    factor[i] = priority[i] - min[i];
}
ready = FALSE;
while (! ready) {
    minsum = min[1] + min[2] + ... + min[N];
    factsum = factor[1] + factor[2] + ... + factor[N];
    ready = TRUE;
    for(i=1;i<=N;i++) {
        x = min[i] + (free_space - minsum) * factor[i] / factsum;
        if (x > max[i])
            x = max[i];
        if (x != min[i]) {
            ready = FALSE;
            min[i] = x;
        }
    }
}
```

min[i] i.