

partman-auto

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



:

- 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-swap  
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 1000000000 ext4
method{ format }
format{ }
use_filesystem{ }
filesystem{ ext4 }
mountpoint{ /home } .
```



, LVM

"lvm" . . , , , . :

```
100 1000 1000000000 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.
```