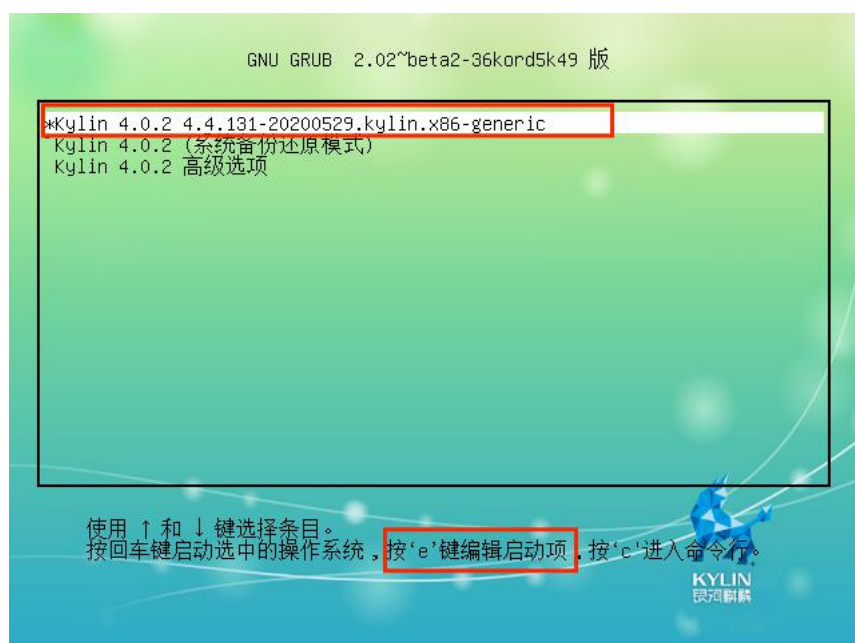


麒麟操作系统单用户模式

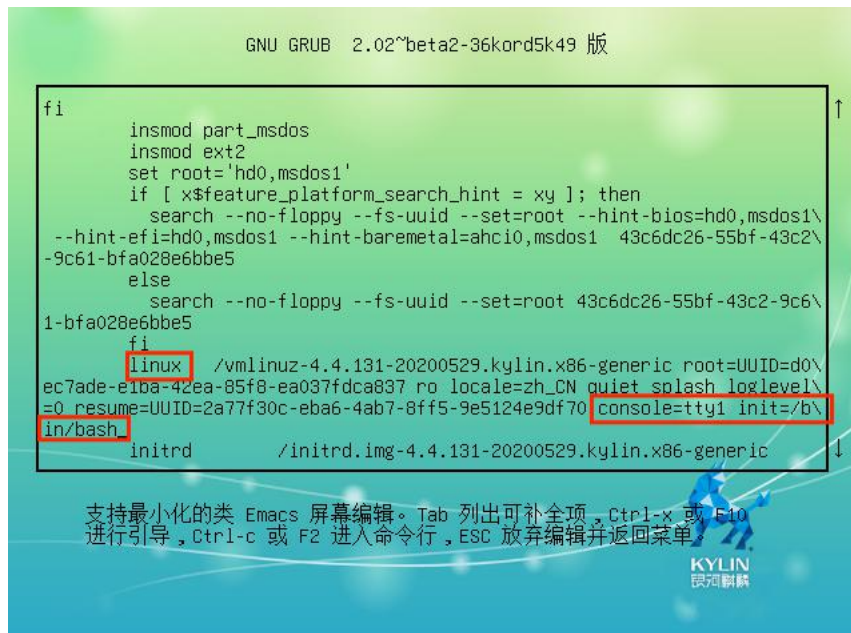
1. 介绍：本文档专为麒麟操作系统进入单用户所著，其适合X86及Arm架构。

一. Kylin V4桌面版：

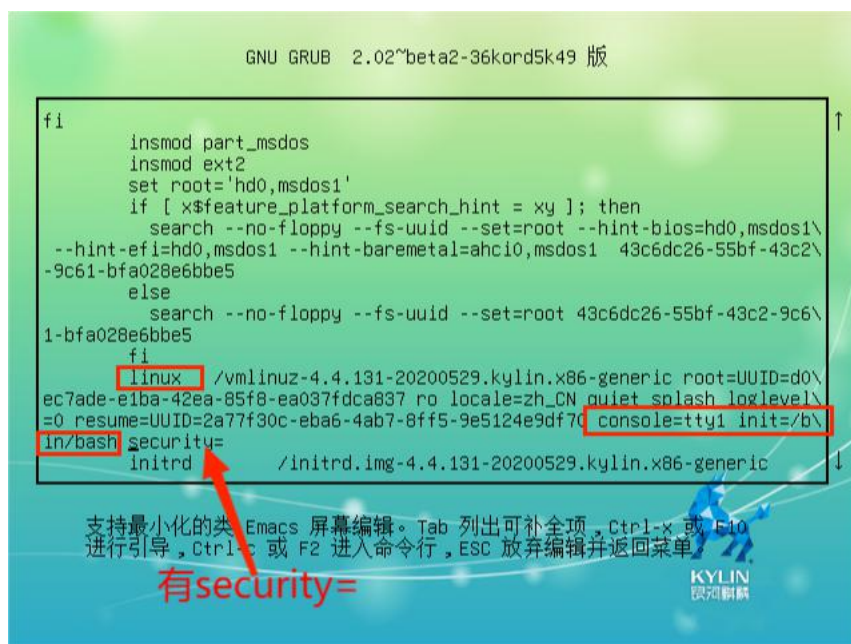
1. 启动系统，进入Grub界面，如下图所示；在此界面按“e”键进行编辑修改。



2. 在以linux开头的一行末尾添加console=tty1 init=/bin/bash，如末尾有此字符“security=”，则在该字符前添加；图一无“security=”图二有“security=”字符，图一和图二可进行对比参考；修改完成后按Ctrl+x或者F10键保存修改并启动系统。



图一



图二

3. 单用户模式效果图如下，在以下界面重启只能使用 Ctrl+Alt+del 键重启 或者reboot -f强制重启。

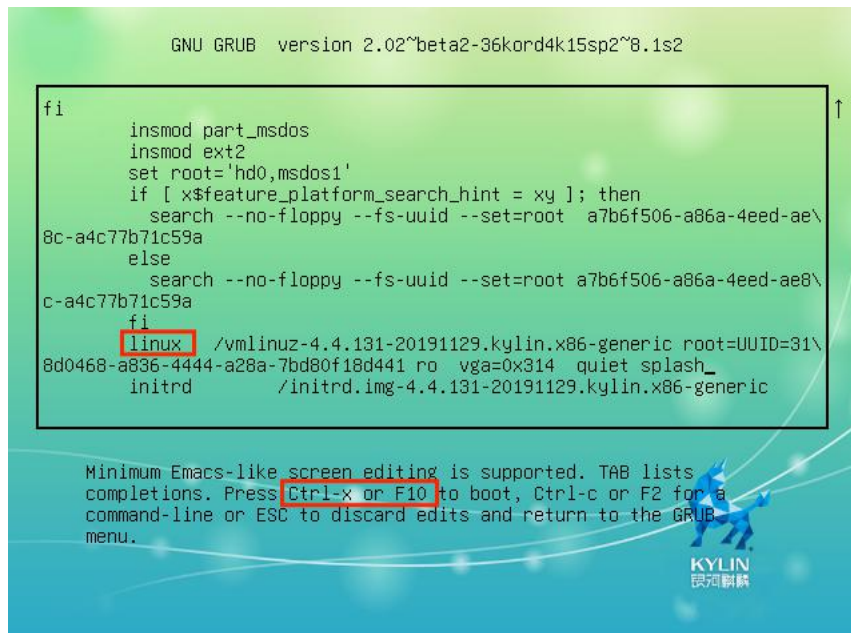
```
bash: cannot set terminal process group (-1): Inappropriate ioctl for device
bash: no job control in this shell
root@(none):/# ls
backup  box    dev    initrd.img    lib64    mnt    root  srv  usr
bin     cdrom  etc    initrd.img.old  lost+found  opt    run   sys  var
boot    data  home   lib            media     proc   sbin  tmp  umlinuz
root@(none):/#
```

二. Kylin V4服务器版:

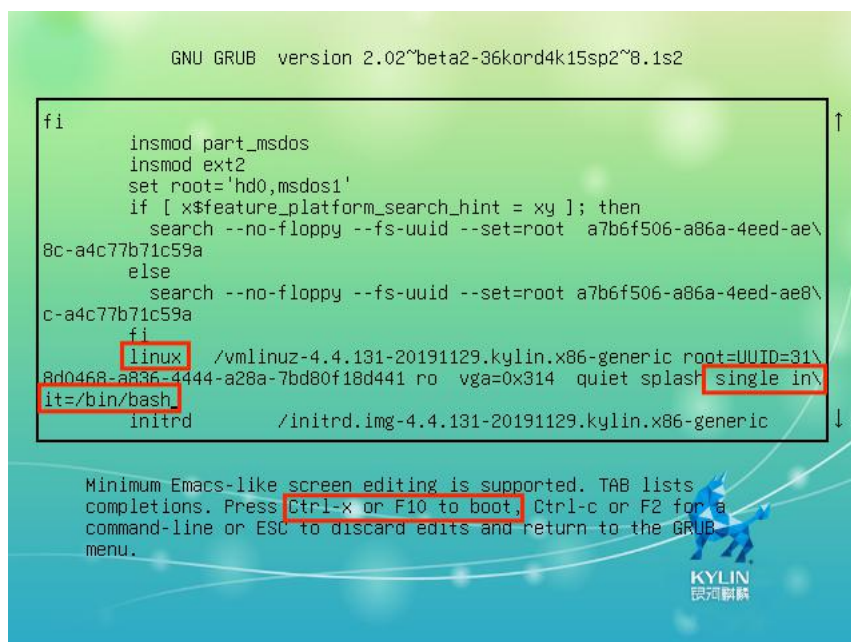
1. 启动系统，进入Grub界面，如下图所示；在此界面按“e”键进行编辑修改。



2. 找到linux开头的一行，在这行的末尾添加single init=/bin/bash，然后按Ctrl+x或者F10保存修改并进入系统；下面的图一为未添加参数的，图二为添加参数的，图一和图二可供对比参考。



图一



图二

3. 单用户模式效果图如下，在以下界面重启只能使用 Ctrl+Alt+del 键重启，或者reboot -f强制重启。

```
[ 2.959299] sd 32:0:0:0: [sda] Assuming drive cache: write through
SYSROOT: recovering journal
SYSROOT: Clearing orphaned inode 1576035 (uid=1000, gid=1000, mode=0100664, size=32768)
SYSROOT: Clearing orphaned inode 1576034 (uid=1000, gid=1000, mode=0100600, size=156)
SYSROOT: Clearing orphaned inode 1576041 (uid=1000, gid=1000, mode=0100664, size=7107)
SYSROOT: Clearing orphaned inode 1575405 (uid=1000, gid=1000, mode=0100664, size=7107)
SYSROOT: Clearing orphaned inode 1575459 (uid=1000, gid=1000, mode=0100664, size=32768)
SYSROOT: Clearing orphaned inode 1573000 (uid=1000, gid=1000, mode=0100600, size=1328)
SYSROOT: Clearing orphaned inode 1572982 (uid=1000, gid=1000, mode=0100664, size=7107)
SYSROOT: Clearing orphaned inode 1575413 (uid=1000, gid=1000, mode=0100664, size=7107)
SYSROOT: Clearing orphaned inode 1573332 (uid=1000, gid=1000, mode=0100664, size=7107)
SYSROOT: Clearing orphaned inode 1572972 (uid=1000, gid=1000, mode=0100664, size=7107)
SYSROOT: Clearing orphaned inode 5252249 (uid=0, gid=0, mode=040700, size=4096)
SYSROOT: Clearing orphaned inode 5252258 (uid=0, gid=0, mode=0100644, size=0)
SYSROOT: clean, 216057/6332416 files, 6961584/25303552 blocks
bash: cannot set terminal process group (-1): Inappropriate ioctl for device
bash: no job control in this shell
root@(none):/# ls
bin  dev  home  lib  lost+found  mnt  proc  run  sru  tmp  var
boot  etc  initrd.img.old  lib64  media  opt  root  sbin  sys  usr  vmlinuz.old
root@(none):/# _
```

三. Kylin V10桌面版

1. 启动系统，进入Grub界面，如下图所示；在此界面按“e”键进行编辑修改。



2. 找到linux开头的一行，在这行末尾的security=none前添加console=tty0 init=/bin/bash, 然后按Ctrl+x或者F10保存修改并进入系统；下面的图一为未添加参数的，图二为添加参数的，图一和图二可供对比参考。


```
GNU GRUB version 2.04

insmod gzio
if [ x$grub_platform = xxen ]; then insmod xzio; insmod lzopio; fi
insmod part_msdos
insmod ext2
set root='hd0,msdos1'
if [ x$feature_platform_search_hint = xy ]; then
  search --no-floppy --fs-uuid --set=root --hint-bios=hd0,msdos1 --\
hint-efi=hd0,msdos1 --hint-baremetal=ahci0,msdos1 db67b995-77ad-4c07-8f93-\
1da7e55e6b63
else
  search --no-floppy --fs-uuid --set=root db67b995-77ad-4c07-8f93-1\
da7e55e6b63
fi
linux /vmlinuz-5.4.18-19-generic root=UUID=36da47f5-ca86-40c\
4-8b0a-ad9a1d4a9de6 ro quiet splash loglevel=0 resume=UUID=581c1f9b-cde3-4\
789-8d88-70ace84b6768 audit=0 security=none
initrd /initrd.img-5.4.18-19-generic

Minimum Emacs-like screen editing is supported. TAB lists
completions. Press Ctrl-x or F10 to boot, Ctrl-c or F2 for a
command-line or ESC to discard edits and return to the GRUB menu.
```

图一

```
GNU GRUB version 2.04

insmod gzio
if [ x$grub_platform = xxen ]; then insmod xzio; insmod lzopio; fi
insmod part_msdos
insmod ext2
set root='hd0,msdos1'
if [ x$feature_platform_search_hint = xy ]; then
  search --no-floppy --fs-uuid --set=root --hint-bios=hd0,msdos1 --\
hint-efi=hd0,msdos1 --hint-baremetal=ahci0,msdos1 db67b995-77ad-4c07-8f93-\
1da7e55e6b63
else
  search --no-floppy --fs-uuid --set=root db67b995-77ad-4c07-8f93-1\
da7e55e6b63
fi
linux /vmlinuz-5.4.18-19-generic root=UUID=36da47f5-ca86-40c\
4-8b0a-ad9a1d4a9de6 ro quiet splash loglevel=0 resume=UUID=581c1f9b-cde3-4\
789-8d88-70ace84b6768 audit=0 console=tty0 init=/bin/bash security=none
initrd /initrd.img-5.4.18-19-generic

Minimum Emacs-like screen editing is supported. TAB lists
completions. Press Ctrl-x or F10 to boot, Ctrl-c or F2 for a
command-line or ESC to discard edits and return to the GRUB menu.
```

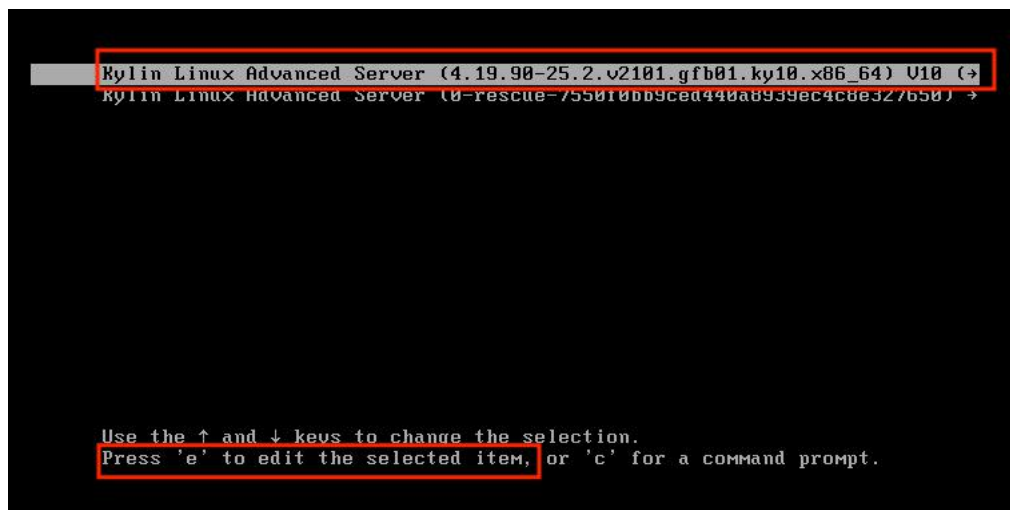
图二

3. 单用户模式效果图如下，在以下界面重启只能使用 Ctrl+Alt+del 键重启，或者reboot -f强制重启。

```
bash: cannot set terminal process group (-1): Inappropriate ioctl for device
bash: no job control in this shell
root@(none):/# ls
backup  box    dev    lib    libx32  mnt    root  srv  usr
bin     cdrom  etc    lib32  lost+found  opt    run   sys  var
boot    data  home   lib64  media   proc   sbin  tmp
root@(none):/# _
```

四. Kylin V10服务器版

1. 启动系统，进入Grub界面，如下图所示；在此界面按“e”键进行编辑修改。



2. 找到linux开头的一行，在这行末尾添加console=tty0
init=/bin/bash, 然后按Ctrl+x或者F10保存修改并进入系统；下面的图一为未添加参数的，图二为添加参数的，图一和图二可供对比进行参考。

```
insmod part_gpt
insmod xfs
if [ x$feature_platform_search_hint = xy ]; then
    search --no-floppy --fs-uuid --set=root 90b80587-ebdb-4bf1-8a23-81e\
04646b191
else
    search --no-floppy --fs-uuid --set=root 90b80587-ebdb-4bf1-8a23-81e0\
4646b191
fi
linux /vmlinuz-4.19.90-25.2.v2101.gfb01.ky10.aarch64 root=/dev/\
mapper/klas-root ro crashkernel=auto rd.lvm.lv=klas/root rd.lvm.lv=klas/swap a\
cpi=on video=UGA-1:640x480-32060me smmu.bypassdev=0x1000:0x17 smmu.bypassdev=0\
x1000:0x15 crashkernel=1024M,high video=efifb:off video=UGA-1:640x480-32060me \
initrd /initramfs-4.19.90-25.2.v2101.gfb01.ky10.aarch64.img

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to
discard edits and return to the menu. Pressing Tab lists possible
completions.
```

图一

```
insmod part_gpt
insmod xfs
if [ x$feature_platform_search_hint = xy ]; then
    search --no-floppy --fs-uuid --set=root 90b80587-ebdb-4bf1-8a23-81e\
04646b191
else
    search --no-floppy --fs-uuid --set=root 90b80587-ebdb-4bf1-8a23-81e0\
4646b191
fi
linux /vmlinuz-4.19.90-25.2.v2101.gfb01.ky10.aarch64 root=/dev/\
mapper/klas-root ro crashkernel=auto rd.lvm.lv=klas/root rd.lvm.lv=klas/swap a\
cpi=on video=UGA-1:640x480-32060me smmu.bypassdev=0x1000:0x17 smmu.bypassdev=0\
x1000:0x15 crashkernel=1024M,high video=efifb:off video=UGA-1:640x480-32060me \
console=tty0 init=/bin/bash
initrd /initramfs-4.19.90-25.2.v2101.gfb01.ky10.aarch64.img

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to
discard edits and return to the menu. Pressing Tab lists possible
completions.
```

图二

3. 单用户模式效果图如下，在以下界面重启只能使用 Ctrl+Alt+del 键重启，或者电源按钮强制重启。


```
[ OK ] Stopped dracut initqueue hook.
[ 5.185996] 0] audit: type=1131 audit(1646040411.100:22): pid=1 uid=0 auid=429496
iles-setup comm="systemd" exe="/usr/lib/systemd/systemd" hostname=? addr=? terminal=?
Starting Plymouth switch root service...
[ OK ] Stopped Apply Kernel Variables.
[ 5.198360] 3] audit: type=1131 audit(1646040411.110:23): pid=1 uid=0 auid=429496
-trigger comm="systemd" exe="/usr/lib/systemd/systemd" hostname=? addr=? terminal=? re
[ OK ] Stopped Load Kernel Modules.
[ OK ] Stopped Create Volatile Files and Directories.
[ OK ] Stopped target Local File Systems.
[ OK ] Stopped udev Coldplug all Devices.
Stopping udev Kernel Device Manager...
Starting Setup Virtual Console...
[ 5.225019] 1] audit: type=1130 audit(1646040411.140:24): pid=1 uid=0 auid=429496
tch-root comm="systemd" exe="/usr/lib/systemd/systemd" hostname=? addr=? terminal=? re
[ 5.522498] 2] systemd-journald[173]: Received SIGTERM from PID 1 (systemd).
[ 5.550045] 1] bash: 20 output lines suppressed due to ratelimiting
[root@localhost ~]# ls
backup bin boot box dev etc home lib lib64 media mnt opt proc root run
[root@localhost ~]#
```