

# Instal·lació de CentOS 7 per l'Avance III 400 MHz SB

## ISO d'instal·lació

Instal·lo el sistema operatiu CentOS 7.9-2009 de 2021-11-12 a partir de la imatge ISO CentOS-7-x86\_64-DVD-2009.iso descarregada de la [rèplica del magatzem de CentOS al CSUC](#),

```
# cd /home/miquel/Informatica/CentOS/
# wget http://ftp.csuc.cat/centos/7/isos/x86_64/CentOS-7-x86_64-DVD-2009.iso
--2021-08-18 11:31:58--
http://ftp.csuc.cat/centos/7/isos/x86_64/CentOS-7-x86_64-DVD-2009.iso
Resolving ftp.csuc.cat (ftp.csuc.cat)... 84.88.0.29
Connecting to ftp.csuc.cat (ftp.csuc.cat)|84.88.0.29|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 4712300544 (4.4G) [application/octet-stream]
Saving to: 'CentOS-7-x86_64-DVD-2009.iso'

CentOS-7-x86_64-DVD-2009.iso
100%[=====>] 4.39G
8.16MB/s in 7m 15s

2021-08-18 11:39:13 (10.3 MB/s) - 'CentOS-7-x86_64-DVD-2009.iso' saved
[4712300544/4712300544]
```

i copiada amb dd a un pendrive USB-3

```
# dd if=CentOS-7-x86_64-DVD-2009.iso of=/dev/sdg
9203712+0 records in
9203712+0 records out
4712300544 bytes (4.7 GB) copied, 817.294 s, 5.8 MB/s
```

Malauradament, el primer cop que intento instal·lar CentOS, el programa d'instal·lació dona un error al verificar el pendrive i s'interromp la instal·lació. Per descartar un problema al fitxer ISO descarregat, calculo la signatura SHA-256 del fitxer

```
c# sha256sum CentOS-7-x86_64-DVD-2009.iso
e33d7b1ea7a9e2f38c8f693215dd85254c3a4fe446f93f563279715b68d07987 CentOS-7-
x86_64-DVD-2009.iso
```

i comprovo que coincideix amb la signatura al fitxer sha256sum.txt descarregat de la rèplica al CSUC

```
# cat sha256sum.txt
689531ccea9cf484378481ae762fae362791a9be078fda10e4f6977bf8fa71350 CentOS-7-
x86_64-Everything-2009.iso
```

```
b79079ad71cc3c5ceb3561fff348a1b67ee37f71f4cddfec09480d4589c191d6 CentOS-7-x86_64-NetInstall-2009.iso
07b94e6b1a0b0260b94c83d6bb76b26bf7a310dc78d7a9c7432809fb9bc6194a CentOS-7-x86_64-Minimal-2009.iso
e33d7b1ea7a9e2f38c8f693215dd85254c3a4fe446f93f563279715b68d07987 CentOS-7-x86_64-DVD-2009.iso
```

de forma que l'error es deu haver originat al fer la còpia amb dd. Per evitar que es torni a produir, **instal·lo dcfldd i dc3dd,**

```
# apt install dcfldd
# apt install dc3dd
```

unes versions millorades de dd que verifiquen que la còpia coincideixi amb l'original, i faig servir dc3dd per fer la còpia sense errors,

```
# dc3dd if=CentOS-7-x86_64-DVD-2009.iso of=/dev/sdg hash=sha256 hlog=centos-usb-sha256sum.log log=centos-usb.log verb=on

dc3dd 7.2.641 started at 2021-08-18 13:22:24 +0200
compiled options:
command line: dc3dd if=CentOS-7-x86_64-DVD-2009.iso of=/dev/sdg hash=sha256 hlog=centos-usb-sha256sum.log log=centos-usb.log verb=on
sector size: 512 bytes (assumed)
 4712300544 bytes ( 4.4 G ) copied ( 100% ), 195 s, 23 M/s

input results for file `CentOS-7-x86_64-DVD-2009.iso':
 9203712 sectors in
 e33d7b1ea7a9e2f38c8f693215dd85254c3a4fe446f93f563279715b68d07987 (sha256)

output results for device `/dev/sdg':
 9203712 sectors out

dc3dd completed at 2021-08-18 13:25:38 +0200
```

Finalment, repeteixo el procés d'instal·lació a partir del pendrive i aquest cop el programa d'instal·lació del CentOS s'executa sense errors.

## Enllaços d'interès

- [dcfldd - Cerca de Google](#)
- [dcfldd\(1\) - Linux man page](#)
- [dcfldd](#), at Forensics Wiki.
- [dc3dd\(1\) - Linux man page](#)
- [dc3dd | Penetration Testing Tools](#), KALI tools.
- [dc3dd](#), at Forensics Wiki.
- [# Simple Forensics imaging with dd, dc3dd & dcfldd - Forensics Matters](#)

## Magatzems (repositories) addicionals

La llista de magatzems actualment configurats és,

```
# yum repolist
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
* base: ftp.csuc.cat
* extras: ftp.csuc.cat
* updates: ftp.csuc.cat
repo id                repo name                status
base/7/x86_64          CentOS-7 - Base          10,072
extras/7/x86_64        CentOS-7 - Extras        498
updates/7/x86_64       CentOS-7 - Updates       2,567
repolist: 13,137
```

Cal afegir aquests magatzems addicionals: [bruker](#), [elrepo](#) i [epel](#) per tenir la mateixa configuració que als ordinadors dels Avance Neo o de l'Avance III 600 MHz. Les instruccions per afegir-los estan disponibles als seus llocs web i a altres pàgines d'Internet.

- [CentOS 7 TopSpin Installation](#)
- ["The Community Enterprise Linux Repository" \(ELRepo\)](#); i
- [Extra Packages for Enterprise Linux \(EPEL\)](#)

La instal·lació del magatzem EPEL no dona cap problema:

```
# yum install
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
[...]
Installed:
  epel-release.noarch 0:7-13

Complete!
```

i la instal·lació d'ELRepo tampoc,

```
# rpm --import https://www.elrepo.org/RPM-GPG-KEY-elrepo.org
# yum install https://www.elrepo.org/elrepo-release-7.el7.elrepo.noarch.rpm
[...]
Installed:
  elrepo-release.noarch 0:7.0-5.el7.elrepo

Complete!
```

Un cop instal·lats, afegixo el magatzem de Bruker, i instal·lo els paquets necessaris pel TopSpin i per l'adquisició, així com els paquets dels quals depenen,

```
# yum --nogpgcheck install
https://repo-bbio.bruker.com/CentOS/7/Bruker-Addon/bruker-addon-latest.x86_64.rpm
```

[...]

Installed:

bruker-addon.noarch 0:1.4-0.el7.brk

Complete!

```
# yum install epel-release
```

[...]

Package epel-release-7-13.noarch already installed and latest version  
Nothing to do

```
# yum install --enablerepo=bruker bruker-topspin-environ
```

[...]

Resolving Dependencies

--> Running transaction check

---> Package bruker-topspin-environ.x86\_64 0:1.0-21.el7.brk will be installed

--> Processing Dependency: xorg-x11-fonts-IS08859-1-75dpi for package: bruker-topspin-environ-1.0-21.el7.brk.x86\_64

--> Processing Dependency: xorg-x11-fonts-75dpi for package: bruker-topspin-environ-1.0-21.el7.brk.x86\_64

:

:

---> Package nettle.i686 0:2.7.1-9.el7\_9 will be installed

---> Package nettle.x86\_64 0:2.7.1-9.el7\_9 will be an update

--> Finished Dependency Resolution

Dependencies Resolved

:

:

Install 1 Package (+161 Dependent packages)

Upgrade ( 39 Dependent packages)

Total download size: 157 M

Is this ok [y/d/N]: y

Downloading packages:

No Presto metadata available for updates

warning:

/var/cache/yum/x86\_64/7/base/packages/ORBit2-2.14.19-13.el7.i686.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY

Public key for ORBit2-2.14.19-13.el7.i686.rpm is not installed

(1/201): ORBit2-2.14.19-13.el7.i686.rpm

| 171 kB 00:00:00

(2/201): PackageKit-gtk3-module-1.1.10-2.el7.centos.i686.rpm

| 12 kB 00:00:00

:

:

(200/201): systemd-219-78.el7\_9.3.x86\_64.rpm

```
| 5.1 MB 00:00:01
(201/201): xorg-x11-fonts-IS08859-1-75dpi-7.5-9.el7.noarch.rpm
| 933 kB 00:00:01
-----
-----
Total
9.8 MB/s | 157 MB 00:00:16
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7
Importing GPG key 0xF4A80EB5:
  Userid      : "CentOS-7 Key (CentOS 7 Official Signing Key)
<security@centos.org>"
  Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5
  Package     : centos-release-7-9.2009.0.el7.centos.x86_64 (@anaconda)
  From       : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7
Is this ok [y/N]: y
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Importing GPG key 0x352C64E5:
  Userid      : "Fedora EPEL (7) <epel@fedoraproject.org>"
  Fingerprint: 91e9 7d7c 4a5e 96f1 7f3e 888f 6a2f aea2 352c 64e5
  Package     : epel-release-7-13.noarch (@/epel-release-latest-7.noarch)
  From       : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Is this ok [y/N]: y
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Updating    : libX11-common-1.6.7-3.el7_9.noarch
1/240
  Installing : kernel-headers-3.10.0-1160.36.2.el7.x86_64
2/240
  Installing : libgcc-4.8.5-44.el7.i686
3/240
  :
  :
  Installing : libcanberra-gtk2-0.30-9.el7.i686
200/240
  Installing : bruker-topspin-environ-1.0-21.el7.brk.x86_64
201/240
      All required 32bit libraries are present
  Cleanup    : libX11-devel-1.6.7-2.el7.x86_64
202/240
  Cleanup    : systemd-sysv-219-78.el7.x86_64
203/240
  :
  :
  Cleanup    : nss-softokn-freebl-3.44.0-8.el7_7.x86_64
239/240
  Cleanup    : glibc-2.17-317.el7.x86_64
240/240
  Verifying  : gnome-vfs2-2.24.4-14.el7.i686
1/240
```

```
Verifying : gcc-c++-4.8.5-44.el7.x86_64
2/240
:
:
Verifying : gtk3-imodule-xim-3.22.30-5.el7.x86_64
239/240
Verifying : mesa-libEGL-18.3.4-10.el7.x86_64
240/240
```

Installed:

```
bruker-topspin-environ.x86_64 0:1.0-21.el7.brk
```

Dependency Installed:

```
GConf2.i686 0:3.2.6-8.el7
ORBit2.i686 0:2.14.19-13.el7
PackageKit-glib.i686 0:1.1.10-2.el7.centos
PackageKit-gtk3-module.i686 0:1.1.10-2.el7.centos
:
:
xorg-x11-fonts-IS08859-1-75dpi.noarch 0:7.5-9.el7 xz-
libs.i686 0:5.2.2-1.el7
zlib.i686 0:1.2.7-19.el7_9
```

Dependency Updated:

```
freetype.x86_64 0:2.8-14.el7_9.1 glib2.x86_64
0:2.56.1-9.el7_9 glibc.x86_64 0:2.17-324.el7_9
glibc-common.x86_64 0:2.17-324.el7_9 gtk3.x86_64
0:3.22.30-6.el7 gtk3-imodule-xim.x86_64 0:3.22.30-6.el7
libX11.x86_64 0:1.6.7-3.el7_9 libX11-common.noarch
0:1.6.7-3.el7_9 libX11-devel.x86_64 0:1.6.7-3.el7_9
libblkid.x86_64 0:2.23.2-65.el7_9.1 libgudev1.x86_64
0:219-78.el7_9.3 libmount.x86_64 0:2.23.2-65.el7_9.1
libsmartcols.x86_64 0:2.23.2-65.el7_9.1 libuuid.x86_64
0:2.23.2-65.el7_9.1 mesa-libEGL.x86_64 0:18.3.4-12.el7_9
mesa-libGL.x86_64 0:18.3.4-12.el7_9 mesa-libgbm.x86_64
0:18.3.4-12.el7_9 mesa-libglapi.x86_64 0:18.3.4-12.el7_9
nettle.x86_64 0:2.7.1-9.el7_9 nspr.x86_64
0:4.25.0-2.el7_9 nss-softokn-freebl.x86_64 0:3.53.1-6.el7_9
nss-util.x86_64 0:3.53.1-1.el7_9 openssl.x86_64
1:1.0.2k-21.el7_9 openssl-libs.x86_64 1:1.0.2k-21.el7_9
pulseaudio.x86_64 0:10.0-6.el7_9 pulseaudio-libs.x86_64
0:10.0-6.el7_9 pulseaudio-libs-glib2.x86_64 0:10.0-6.el7_9
pulseaudio-module-bluetooth.x86_64 0:10.0-6.el7_9 pulseaudio-module-
x11.x86_64 0:10.0-6.el7_9 pulseaudio-utils.x86_64 0:10.0-6.el7_9
qt.x86_64 1:4.8.7-9.el7_9 qt-mysql.x86_64
1:4.8.7-9.el7_9 qt-x11.x86_64 1:4.8.7-9.el7_9
systemd.x86_64 0:219-78.el7_9.3 systemd-libs.x86_64
0:219-78.el7_9.3 systemd-python.x86_64 0:219-78.el7_9.3
systemd-sysv.x86_64 0:219-78.el7_9.3 util-linux.x86_64
```

```
0:2.23.2-65.el7_9.1      zlib.x86_64 0:1.2.7-19.el7_9
```

Complete!

El resultat és ara tenim disponibles els mateixos magatzems que a l'ordinador de l'Avance Neo 500 MHz, i un d'extra que potser no cal i que podríem eliminar: "Bruker-Addon-7 - Public Updates (bruker/7)",

```
# yum repolist
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: ftp.csuc.cat
 * elrepo: mirrors.coreix.net
 * epel: mirror.eixamcoop.cat
 * extras: ftp.csuc.cat
 * updates: ftp.csuc.cat
repo id                repo name
status
base/7/x86_64          CentOS-7 - Base
10,072
bruker/7               Bruker-Addon-7 - Public Updates
110+13
elrepo                 ELRepo.org Community Enterprise Linux Repository
- el7                  128
epel/x86_64            Extra Packages for Enterprise Linux 7 - x86_64
13,634
extras/7/x86_64       CentOS-7 - Extras
498
updates/7/x86_64      CentOS-7 - Updates
2,567
repolist: 26,899
```

## Instal·lació de paquets de Bruker



## Desactivació del magatzem Bruker



## Actualització del programari instal·lat

Després d'afegir els nous magatzems, actualitzo el programari instal·lat,

```
# yum check-update
Loaded plugins: fastestmirror, langpacks
```

Loading mirror speeds from cached hostfile

epel/x86\_64/metalink

| 22 kB 00:00:00

- \* base: ftp.csuc.cat
- \* elrepo: ftp.nluug.nl
- \* epel: mirror.eixamcoop.cat
- \* extras: ftp.csuc.cat
- \* updates: ftp.csuc.cat

base

| 3.6 kB 00:00:00

brucker

| 2.9 kB 00:00:00

elrepo

| 3.0 kB 00:00:00

epel

| 4.7 kB 00:00:00

extras

| 2.9 kB 00:00:00

updates

| 2.9 kB 00:00:00

(1/3): epel/x86\_64/updateinfo

| 1.0 MB 00:00:00

(2/3): updates/7/x86\_64/primary\_db

| 9.6 MB 00:00:01

(3/3): epel/x86\_64/primary\_db

| 6.9 MB 00:00:04

NetworkManager.x86_64	1:1.18.8-2.el7_9
updates	
NetworkManager-adsl.x86_64	1:1.18.8-2.el7_9
updates	
NetworkManager-bluetooth.x86_64	1:1.18.8-2.el7_9
updates	
NetworkManager-glib.x86_64	1:1.18.8-2.el7_9
updates	
NetworkManager-libnm.x86_64	1:1.18.8-2.el7_9
updates	
NetworkManager-ppp.x86_64	1:1.18.8-2.el7_9
updates	
:	
:	
xorg-x11-drv-ati.x86_64	19.0.1-3.el7_7
updates	
xorg-x11-server-Xorg.x86_64	1.20.4-16.el7_9
updates	
xorg-x11-server-common.x86_64	1.20.4-16.el7_9
updates	
xterm.x86_64	295-3.el7_9.1
updates	



Obsoleting Packages

```

bruker-system-environ.noarch          1.0-5.el7.brk
bruker
    okular.x86_64

```

# yum update

```

Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: ftp.csuc.cat
 * elrepo: mirrors.coreix.net
 * epel: mirror.eixamcoop.cat
 * extras: ftp.csuc.cat
 * updates: ftp.csuc.cat

```

Resolving Dependencies

```

--> Running transaction check
---> Package NetworkManager.x86_64 1:1.18.8-1.el7 will be updated
---> Package NetworkManager.x86_64 1:1.18.8-2.el7_9 will be an update
---> Package NetworkManager-adsl.x86_64 1:1.18.8-1.el7 will be updated
---> Package NetworkManager-adsl.x86_64 1:1.18.8-2.el7_9 will be an update
---> Package NetworkManager-bluetooth.x86_64 1:1.18.8-1.el7 will be updated
---> Package NetworkManager-bluetooth.x86_64 1:1.18.8-2.el7_9 will be an
update
:
:

```

```

--> Running transaction check
---> Package libzip.x86_64 0:0.10.1-8.el7 will be installed

```

```

base/7/x86_64/filelists_db
| 7.2 MB  00:00:00
bruker/7/filelists_db
| 26 kB  00:00:00
elrepo/filelists_db
| 35 kB  00:00:00
epel/x86_64/filelists_db
| 12 MB  00:00:01
extras/7/x86_64/filelists_db
| 235 kB  00:00:00
updates/7/x86_64/filelists_db
| 5.5 MB  00:00:00
--> Finished Dependency Resolution

```

Dependencies Resolved

```

=====
=====
=====

```

Package	Arch	Repository
Version		
Size		

```

=====
=====
=====

```

Installing:

```
bruker-system-environ          noarch
1.0-5.el7.brk                  bruker
11 k
  replacing okular.x86_64 4.10.5-9.el7
kernel                          x86_64
3.10.0-1160.36.2.el7          updates
50 M
```

Updating:

```
NetworkManager                x86_64
1:1.18.8-2.el7_9              updates
1.9 M
:
:
xorg-x11-server-Xvfb          x86_64
1.20.4-16.el7_9              updates
856 k
xorg-x11-xbitmaps             noarch
1.1.1-6.el7                   base
37 k
yumex                          noarch
3.0.17-1.el7                  epel
444 k
```

Transaction Summary

```
=====  
=====  
=====  
Install    2 Packages (+76 Dependent packages)  
Upgrade   228 Packages
```

Total download size: 602 M  
Is this ok [y/d/N]: y

Downloading packages:

```
No Presto metadata available for updates  
(1/306): NetworkManager-adsl-1.18.8-2.el7_9.x86_64.rpm  
| 163 kB  00:00:00  
(2/306): NetworkManager-1.18.8-2.el7_9.x86_64.rpm  
| 1.9 MB  00:00:00  
(3/306): NetworkManager-bluetooth-1.18.8-2.el7_9.x86_64.rpm  
| 183 kB  00:00:00  
:  
:  
(304/306): xorg-x11-server-Xvfb-1.20.4-16.el7_9.x86_64.rpm  
| 856 kB  00:00:00  
(305/306): xterm-295-3.el7_9.1.x86_64.rpm  
| 456 kB  00:00:00  
(306/306): yumex-3.0.17-1.el7.noarch.rpm
```

| 444 kB 00:00:00

Total

11 MB/s | 602 MB 00:00:55

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Updating : coreutils-8.22-24.el7\_9.2.x86\_64

1/535

Installing : kdesdk-common-4.10.5-8.el7.noarch

2/535

Updating : libldb-1.5.4-2.el7.x86\_64

3/535

Updating : python-libs-2.7.5-90.el7.x86\_64

4/535

:

:

Updating : bpftool-3.10.0-1160.36.2.el7.x86\_64

305/535

Updating : iwl4965-firmware-228.61.2.24-80.el7\_9.noarch

306/535

Cleanup : samba-client-4.10.16-5.el7.x86\_64

307/535

Cleanup : ipa-client-4.6.8-5.el7.centos.x86\_64

308/535

:

:

Cleanup : gd-2.0.35-26.el7.x86\_64

534/535

Cleanup : bpftool-3.10.0-1160.el7.x86\_64

535/535

Verifying : 1:NetworkManager-tui-1.18.8-2.el7\_9.x86\_64

1/535

Verifying : 7:device-mapper-event-1.02.170-6.el7\_9.5.x86\_64

2/535

:

:

Verifying : libstoragegmt-1.8.1-1.el7.x86\_64

534/535

Verifying : gnome-settings-daemon-3.28.1-8.el7.x86\_64

535/535

Installed:

bruker-system-environ.noarch 0:1.0-5.el7.brk

kernel.x86\_64 0:3.10.0-1160.36.2.el7

Dependency Installed:

ImageMagick.x86\_64 0:6.9.10.68-5.el7\_9 SDL.x86\_64 0:1.2.15-17.el7

```
Xaw3d.x86_64 0:1.6.2-4.el7          advancecomp.x86_64 0:1.15-22.el7
  apr.x86_64 0:1.4.8-7.el7          apr-util.x86_64 0:1.5.2-6.el7
compat-libstdc++-33.x86_64 0:3.2.3-72.el7 evince.x86_64 0:3.28.2-10.el7
:
:
  vim-minimal.x86_64 2:7.4.629-8.el7_9
wpa_supplicant.x86_64 1:2.6-12.el7_9.2          xorg-x11-
drv-ati.x86_64 0:19.0.1-3.el7_7
  xorg-x11-server-Xorg.x86_64 0:1.20.4-16.el7_9          xorg-x11-
server-common.x86_64 0:1.20.4-16.el7_9          xterm.x86_64
0:295-3.el7_9.1

Replaced:
  okular.x86_64 0:4.10.5-9.el7

Complete!
```

## Llista de paquets instal·lats a l'Avance III 600 MHz

Genero la llista de paquets instal·lats a l'Avance III 600 MHz i la transfereixo al nou ordinador per l'Avance III 400 MHz SB,

```
$ rpm -qa | sort > 20210819-avance3-600-pkglist.txt

$ ls -l 20210819-avance3-600-pkglist.txt
-rw-r--r--. 1 sermnadmin sermnadmin 62040 Aug 19 17:09 20210819-avance3-600-
pkglist.txt

$ wc -l 20210819-avance3-600-pkglist.txt
1850 20210819-avance3-600-pkglist.txt

$ md5sum 20210819-avance3-600-pkglist.txt
bd2abffe1603ef8931125c4c3cc0ce92 20210819-avance3-600-pkglist.txt

$ scp ./20210819-avance3-600-pkglist.txt
sermnadmin@cie-54-214.uab.cat:/home/sermnadmin/Documents
The authenticity of host 'cie-54-214.uab.cat (158.109.54.214)' can't be
established.
ECDSA key fingerprint is SHA256:y5C84bqQupGc03axR4i/nnJs0uJVDlUTlKFHWtGP6a0.
ECDSA key fingerprint is
MD5:f8:55:34:99:a7:ad:67:46:0f:f8:5f:c5:e7:eb:47:14.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'cie-54-214.uab.cat,158.109.54.214' (ECDSA) to
the list of known hosts.
sermnadmin@cie-54-214.uab.cat's password:
20210819-avance3-600-pkglist.txt
```

i faig servir md5sum al nou ordinador per verificar que s'ha transferit correctament,

```
sermnadmin@cie-54-214 Documents]$ md5sum 20210819-avance3-600-pkglist.txt
bd2abffe1603ef8931125c4c3cc0ce92 20210819-avance3-600-pkglist.txt
```

## Llista de paquets instal·lats a l'Avance III 400 MHz SB

Genero la llista de paquets instal·lats a l'Avance III 400 MHz SB per poder-la comparar amb la llista de paquets instal·lats a l'Avance III 600 MHz,

```
# rpm -qa | sort > 20210819-avance3-400sb-pkglist.txt

# ls -l 20210819-avance3-400sb-pkglist.txt
-rw-r--r--. 1 sermnadmin sermnadmin 57257 Aug 20 13:46 20210819-
avance3-400sb-pkglist.txt

# wc -l 20210819-avance3-400sb-pkglist.txt
1707 20210819-avance3-400sb-pkglist.txt
```

Com es pot veure, falten per instal·lar 143 paquets (1850 - 1707).

## Instal·lació de paquets que manquen

Un cop actualitzat el programari, comparo la llista de paquets instal·lats en aquest ordinador amb la llista de paquets instal·lats a l'ordinador del 600 MHz per instal·lar els que manquen,

```
# comm -23 20210819-avance3-400sb-pkglist.txt 20210819-avance3-600-
pkglist.txt > list-packages-only-in-400sb.txt
# comm -13 20210819-avance3-400sb-pkglist.txt 20210819-avance3-600-
pkglist.txt > list-packages-only-in-600.txt
```

Llavors genero un llistat que conté els paquets instal·lats només al 600 MHz i afegeixo el seu magatzem d'origen,

```
# for PKG in `cat list-packages-only-in-600.txt` ;
> do
> echo -e $PKG"\t"`yum info $PKG | grep "Repo          : "`;
> done > list-packages-only-in-600-with-repo.txt &

# wc -l list-packages-only-in-600.txt list-packages-only-in-600-with-
repo.txt
 157 list-packages-only-in-600.txt
 157 list-packages-only-in-600-with-repo.txt
 314 total

# tail -5 list-packages-only-in-600-with-repo.txt
xorg-x11-apps-7.7-7.el7.x86_64 Repo : base/7/x86_64
```

```
xorg-x11-fonts-100dpi-7.5-9.el7.noarch Repo : base/7/x86_64
xorg-x11-fonts-IS08859-1-100dpi-7.5-9.el7.noarch Repo : base/7/x86_64
xorg-x11-fonts-misc-7.5-9.el7.noarch Repo : base/7/x86_64
yum-plugin-keys-1.1.31-54.el7_8.noarch Repo : base/7/x86_64
```

Per evitar problemes a l'hora d'actualitzar paquets relacionats amb l'entorn gràfic, aturo el gestor de gràfics gdm,

```
# systemctl status gdm.service
● gdm.service - GNOME Display Manager
  Loaded: loaded (/usr/lib/systemd/system/gdm.service; enabled; vendor
  preset: enabled)
  Active: active (running) since Wed 2021-08-18 14:22:19 CEST; 2 days ago
  Main PID: 8821 (gdm)
  CGroup: /system.slice/gdm.service
          └─8821 /usr/sbin/gdm
            └─8828 /usr/bin/X :0 -background none -noreset -audit 4 -verbose
  -auth /run/gdm/auth-for-gdm-fdN6r0/database -seat seat0 -nolisten tcp vt1

Aug 18 14:22:19 cie-54-214.uab.es systemd[1]: Starting GNOME Display
  Manager...
Aug 18 14:22:19 cie-54-214.uab.es systemd[1]: Started GNOME Display Manager.
Aug 18 14:22:29 cie-54-214.uab.es gdm[8821]: Failed to remove greeter
  program access to the display. Trying to proceed.

# systemctl stop gdm.service

# systemctl status gdm.service
● gdm.service - GNOME Display Manager
  Loaded: loaded (/usr/lib/systemd/system/gdm.service; enabled; vendor
  preset: enabled)
  Active: inactive (dead) since Fri 2021-08-20 14:51:51 CEST; 2s ago
  Process: 8821 ExecStart=/usr/sbin/gdm (code=exited, status=0/SUCCESS)
  Main PID: 8821 (code=exited, status=0/SUCCESS)

Aug 18 14:22:19 cie-54-214.uab.es systemd[1]: Starting GNOME Display
  Manager...
Aug 18 14:22:19 cie-54-214.uab.es systemd[1]: Started GNOME Display Manager.
Aug 18 14:22:29 cie-54-214.uab.es gdm[8821]: Failed to remove greeter
  program access to the display. Trying to proceed.
Aug 20 14:51:51 cie-54-214.uab.es systemd[1]: Stopping GNOME Display
  Manager...
Aug 20 14:51:51 cie-54-214.uab.es systemd[1]: Stopped GNOME Display Manager.
```

i instal·lo els paquets que manquen,

```
# for PKG in `cat list-packages-only-in-600.txt`
> do
> yum --assumeyes install $PKG
```

```
> done
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
:
:
Resolving Dependencies
--> Running transaction check
---> Package apper.x86_64 0:0.9.2-4.el7 will be installed
:
:
Dependencies Resolved
:
:
Install 1 Package (+3 Dependent packages)

Total download size: 1.7 M
Installed size: 7.5 M
Downloading packages:
(1/4): PackageKit-yum-1.1.10-2.el7.centos.x86_64.rpm
| 75 kB 00:00:00
(2/4): PackageKit-Qt-0.9.5-2.el7.x86_64.rpm
| 78 kB 00:00:00
(3/4): PackageKit-1.1.10-2.el7.centos.x86_64.rpm
| 587 kB 00:00:00
(4/4): apper-0.9.2-4.el7.x86_64.rpm
| 991 kB 00:00:00
-----
-----
-----
Total
5.1 MB/s | 1.7 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : PackageKit-1.1.10-2.el7.centos.x86_64
1/4
  Installing : PackageKit-yum-1.1.10-2.el7.centos.x86_64
2/4
  Installing : PackageKit-Qt-0.9.5-2.el7.x86_64
3/4
  Installing : apper-0.9.2-4.el7.x86_64
4/4
  Verifying  : PackageKit-Qt-0.9.5-2.el7.x86_64
1/4
  Verifying  : PackageKit-yum-1.1.10-2.el7.centos.x86_64
2/4
  Verifying  : apper-0.9.2-4.el7.x86_64
3/4
  Verifying  : PackageKit-1.1.10-2.el7.centos.x86_64
4/4
```

Installed:

apper.x86\_64 0:0.9.2-4.el7

Dependency Installed:

PackageKit.x86\_64 0:1.1.10-2.el7.centos PackageKit-Qt.x86\_64 0:0.9.5-2.el7 PackageKit-yum.x86\_64 0:1.1.10-2.el7.centos

Complete!

:  
:

i així per cadascun dels paquets al fitxer `list-packages-only-in-600.txt` fins instal·lar el darrer, comprovar si cal actualitzar algun paquet i actualitzar els que calgui,

Loaded plugins: fastestmirror, langpacks, refresh-packagekit

Loading mirror speeds from cached hostfile

:  
:

Total download size: 32 k

Installed size: 40 k

Downloading packages:

yum-plugin-keys-1.1.31-54.el7\_8.noarch.rpm

| 32 kB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : yum-plugin-keys-1.1.31-54.el7\_8.noarch

1/1

Verifying : yum-plugin-keys-1.1.31-54.el7\_8.noarch

1/1

Installed:

yum-plugin-keys.noarch 0:1.1.31-54.el7\_8

Complete!

# yum check-update

Loaded plugins: fastestmirror, keys, langpacks, refresh-packagekit

Loading mirror speeds from cached hostfile

- \* base: ftp.csuc.cat
- \* elrepo: mirrors.coreix.net
- \* epel: mirror.eixamcoop.cat
- \* extras: ftp.csuc.cat
- \* updates: ftp.csuc.cat

exiv2.x86\_64

0.27.0-4.el7\_8



```

updates
exiv2-libs.x86_64

# yum update
Loaded plugins: fastestmirror, keys, langpacks, refresh-packagekit
:
:
Upgrade 2 Packages

Total download size: 1.7 M
Is this ok [y/d/N]: y
Downloading packages:
No Presto metadata available for updates
(1/2): exiv2-libs-0.27.0-4.el7_8.x86_64.rpm
| 798 kB  00:00:00
(2/2): exiv2-0.27.0-4.el7_8.x86_64.rpm
| 923 kB  00:00:00
-----
-----
-----
Total
6.0 MB/s | 1.7 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Updating      : exiv2-libs-0.27.0-4.el7_8.x86_64                1/4
  Updating      : exiv2-0.27.0-4.el7_8.x86_64                  2/4
  Cleanup       : exiv2-libs-0.27.0-3.el7_8.x86_64              3/4
  Cleanup       : exiv2-0.27.0-3.el7_8.x86_64                  4/4
  Verifying     : exiv2-0.27.0-4.el7_8.x86_64                  1/4
  Verifying     : exiv2-libs-0.27.0-4.el7_8.x86_64              2/4
  Verifying     : exiv2-libs-0.27.0-3.el7_8.x86_64              3/4
  Verifying     : exiv2-0.27.0-3.el7_8.x86_64                  4/4

Updated:
  exiv2.x86_64 0:0.27.0-4.el7_8                                exiv2-
  libs.x86_64 0:0.27.0-4.el7_8

Complete!

```

En aquest punt, reinicio l'ordinador amb reboot –force perquè faci servir el kernel més actual dels instal·lats.

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Permanent link: [https://sermn.uab.cat/wiki/doku.php?id=informatica:hp\\_z230\\_400sb\\_centos7&rev=1629468525](https://sermn.uab.cat/wiki/doku.php?id=informatica:hp_z230_400sb_centos7&rev=1629468525)

Last update: **2021/08/20 16:08**



