

## ctools - Bug #3448

### Installation of ctools-1.7.2 Mac OS X binary disk image failed on mac OS Catalina

11/13/2020 06:19 PM - Knödseder Jürgen

<b>Status:</b>	Closed	<b>Start date:</b>	11/13/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Knödseder Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.0.0		
<b>Description</b>			
<p>Here is a message that I got from Talvikki:</p> <p>Dear Jurgen,</p> <p>I was trying to install the latest ctools-1.7.2. mac binary disk image ctools-1.7.2-macosx10.7.dmg on my Mac OS Catalina version 10.15.5 (19F101) but encountered problems.</p> <p>First, as explained in the installation instructions (<a href="http://cta.irap.omp.eu/ctools/admin/install_binary.html">http://cta.irap.omp.eu/ctools/admin/install_binary.html</a>), it complained that the certificate is not trusted and I just clicked continue as instructed but instead of successfully installing, it told me that the installation failed because the app is untrusted (first screenshot).</p> <p>I then changed the trust settings under "Show certificate" to always trust ctools, but when I then run the installer, it gives another error message simply saying that the installation failed due to an error. Attached is the screenshot of the second fail message.</p> <p>Anything else I could do to get it to install?</p> <p>Thanks in advance and apologies if I missed further instructions on this!</p> <p>Talvikki Hovatta</p>			
<b>Related issues:</b>			
Related to ctools - Action # 1949: Sign packages		<b>Closed</b>	<b>03/13/2017</b> <b>03/23/2017</b>

#### History

##### #1 - 11/13/2020 06:21 PM - Knödseder Jürgen

- File Screenshot 2020-11-13 at 10.43.54.png added

- File Screenshot 2020-11-13 at 11.25.56.png added

Dear Talvikki,

It works for me under mac OS Mojave (10.14.6) but I have not tried on Catalina. I will check on Monday.

Can you inspect the /var/log/install.log file?

Here is what I get after a successful install:

```
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: @(#)PROGRAM:Install PROJECT:Install-1000
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: @(#)PROGRAM:Installer PROJECT:Installer-934.2
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Hardware: MacBookPro11,5 @ 2.80 GHz (x 8), 16384 MB RAM
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Running OS Build: Mac OS X 10.14.6 (18G6042)
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: __CF_USER_TEXT_ENCODING=0x1F5:0x0:0x1
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: TMPDIR=/var/folders/td/9p0db_z54hg53zjmfg1gp9cw0000gn/T/
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: HOME=/Users/jurgen
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: SHELL=/bin/bash
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env:
Apple_PubSub_Socket_Render=/private/tmp/com.apple.launchd.fDe4PmOR4g/Render
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: SSH_AUTH_SOCK=/private/tmp/com.apple.launchd.QwKXe9Y1Y/Listeners
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env:
DISPLAY=/private/tmp/com.apple.launchd.0Jfql7ASJJ/org.macosforge.xquartz:0
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: PATH=/usr/bin:/bin:/usr/sbin:/sbin
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: LOGNAME=jurgen
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: XPC_SERVICE_NAME=com.apple.xpc.launchd.oneshot.0x10000011.Installer
```

2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: COMMAND\_MODE=unix2003  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: USER=jurgen  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Env: XPC\_FLAGS=0x0  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: ctools-1.7.2 1.7.2 Installation Log  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Opened from: /Volumes/ctools-1.7.2/ctools-1.7.2.pkg  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Package Authoring Error: <background\_scaling> has an unsupported MIME type: X-NSObject/NSNumber  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Package Authoring Error: <background\_alignment> has an unsupported MIME type: X-NSObject/NSNumber  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Package Authoring Error: <layout-direction> has an unsupported MIME type: X-NSObject/NSNumber  
2020-11-13 18:10:51+01 MacBook-Pro-de-Jurgen Installer[9872]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2  
2020-11-13 18:10:54+01 MacBook-Pro-de-Jurgen Installer[9872]: External component packages (1) trustLevel=2 (trust evaluation failed: Error Domain=PKInstallErrorDomain Code=102 "Le paquet « ctools-1.7.2.pkg » n'est pas approuvé." UserInfo={NSLocalizedStringDescription=Le paquet « ctools-1.7.2.pkg » n'est pas approuvé., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600001b385d0 {Error Domain=NSOSStatusErrorDomain Code=-2147409654 "CSSMERR\_TP\_CERT\_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR\_TP\_CERT\_EXPIRED}})  
2020-11-13 18:10:54+01 MacBook-Pro-de-Jurgen Installer[9872]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2  
2020-11-13 18:10:54+01 MacBook-Pro-de-Jurgen Installer[9872]: External component packages (1) trustLevel=2 (trust evaluation failed: Error Domain=PKInstallErrorDomain Code=102 "Le paquet « ctools-1.7.2.pkg » n'est pas approuvé." UserInfo={NSLocalizedStringDescription=Le paquet « ctools-1.7.2.pkg » n'est pas approuvé., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600001b1fb40 {Error Domain=NSOSStatusErrorDomain Code=-2147409654 "CSSMERR\_TP\_CERT\_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR\_TP\_CERT\_EXPIRED}})  
2020-11-13 18:10:55+01 MacBook-Pro-de-Jurgen system\_installd[1620]: PackageKit: Install sandbox purging reclaimed Zéro ko  
2020-11-13 18:10:59+01 MacBook-Pro-de-Jurgen Installer[9872]: InstallerStatusNotifications plugin loaded  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]:  
=====

2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: User picked Standard Install  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: Choices selected for installation:  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: Mise à jour: ""  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: Mise à jour: "(null)"  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: ctools-1.7.2.pkg#ctools-1.7.2.pkg : cta.irap.omp.eu.ctools.pkg : 1.7.2  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]:  
=====

2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: It took 0.00 seconds to summarize the package selections.  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: -[IFDInstallController(Private) \_buildInstallPlanReturningError:]: location = file://localhost  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: -[IFDInstallController(Private) \_buildInstallPlanReturningError:]: file://localhost/Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg  
2020-11-13 18:11:01+01 MacBook-Pro-de-Jurgen Installer[9872]: Set authorization level to root for session  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Administrator authorization granted.  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Will use PK session  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Using authorization level of root for IFPKInstallElement  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Starting installation:  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Configuring volume "Macintosh HD "  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Preparing disk for local booted install.  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Free space on "Macintosh HD ": 375,64 Go (375637131264 bytes).  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Create temporary directory  
"/var/folders/td/9p0db\_z54hg53zjmf1gp9cw0000gn/T/Install.9872lnJHza"  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: IFPKInstallElement (1 packages)  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: Current Path: /System/Library/CoreServices/Installer.app/Contents/MacOS/Installer  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Adding client PKInstallDaemonClient pid=9872, uid=501 (/System/Library/CoreServices/Installer.app/Contents/MacOS/Installer)  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen Installer[9872]: PackageKit: Enqueuing install with framework-specified quality of service (utility)  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: ----- Begin install -----  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: request=PKInstallRequest <1 packages, destination=/>  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: packages=(  
"PKLeopardPackage <id=cta.irap.omp.eu.ctools.pkg, version=1.7.2, url=file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg>"  
)  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Set responsibility for install to 9872  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Will do receipt-based obsoleting for package identifier cta.irap.omp.eu.ctools.pkg (prefix path=/usr/local/gamma)  
2020-11-13 18:11:05+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Extracting file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg

```

2020-11-13 18:11:08+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Shoving
/var/folders/zz/zyxvpxvq6csfxvn_n000000000000/C/PKInstallSandboxManager/C52A8832-130D-48CF-9BB4-BE0B031F267C.activeSandbox/Root
(1 items) to /
2020-11-13 18:11:08+01 MacBook-Pro-de-Jurgen install_monitor[9886]: Temporarily excluding: /Applications, /Library, /System, /bin, /private, /sbin,
/usr
2020-11-13 18:11:08+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Writing receipt for cta.irap.omp.eu.ctools.pkg to /
2020-11-13 18:11:08+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Touched bundle /usr/local/gamma/share/terminfo/69/iTerm.app
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: Installed "ctools-1.7.2" (1.7.2)
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen install_monitor[9886]: Re-included: /Applications, /Library, /System, /bin, /private, /sbin, /usr
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: releasing backupd
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: allow user idle system sleep
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Cleared permissions on Installer.app
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: ----- End install -----
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: 4.1s elapsed install time
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Running idle tasks
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Done with sandbox removals
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen Installer[9872]: PackageKit: Registered bundle file:///usr/local/gamma/share/terminfo/69/iTerm.app
for uid 501
2020-11-13 18:11:09+01 MacBook-Pro-de-Jurgen installd[1622]: PackageKit: Removing client PKInstallDaemonClient pid=9872, uid=501
(/System/Library/CoreServices/Installer.app/Contents/MacOS/Installer)
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: Running install actions
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: Removing temporary directory
"/var/folders/td/9p0db_z54hg53zjmf1gp9cw0000gn/T//Install.9872lnJHZa"
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: Finalize disk "Macintosh HD "
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: Notifying system of updated components
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: **** Summary Information ****
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: Operation    Elapsed time
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: -----
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:      disk    0.00 seconds
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:      script  0.00 seconds
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:      zero    0.00 seconds
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:      install 5.03 seconds
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:      -total- 5.04 seconds
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]:
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: IFDInstallController 1768A90 state = 5
2020-11-13 18:11:10+01 MacBook-Pro-de-Jurgen Installer[9872]: Displaying 'Install Succeeded' UI.
2020-11-13 18:11:11+01 MacBook-Pro-de-Jurgen Installer[9872]: Package Removal: Package is not in downloads directory. Not offering removal.
2020-11-13 18:11:11+01 MacBook-Pro-de-Jurgen Installer[9872]: Package Removal: Package cannot be removed.
MacBook-Pro-de-Jurgen:~ jurgen$

```

## #2 - 11/16/2020 12:29 PM - Knödseder Jürgen

- Status changed from New to In Progress

- Assigned To set to Knödseder Jürgen

- % Done changed from 0 to 10

I confirm that I see them same issues here on a mac OS Catalina VM:

```
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: @(#)PROGRAM:Install PROJECT:Install-1000
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: @(#)PROGRAM:Installer PROJECT:Installer-965.1
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Hardware: VMware7,1 @ 3.34 GHz, 2048 MB RAM
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Running OS Build: Mac OS X 10.15.3 (19D76)
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: USER=jenkins
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: COMMAND_MODE=unix2003
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: PATH=/usr/bin:/bin:/usr/sbin:/sbin
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: LOGNAME=jenkins
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: SSH_AUTH_SOCK=/private/tmp/com.apple.launchd.d1cLHRTEiR/Listeners
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: HOME=/Users/jenkins
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: SHELL=/bin/zsh
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: TMPDIR=/var/folders/9r/n_s0gdwx77x_cdgvnI0Im1_00000gp/T/
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: __CF_USER_TEXT_ENCODING=0x1F6:0x0:0x0
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: XPC_SERVICE_NAME=com.apple.xpc.launchd.oneshot.0x10000005.Installer
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Env: XPC_FLAGS=0x0
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: ctools-1.7.2 1.7.2 Installation Log
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Opened from: /Volumes/ctools-1.7.2/ctools-1.7.2.pkg
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Package Authoring Error: <background_scaling> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Package Authoring Error: <background_alignment> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Package Authoring Error: <layout-direction> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Failed to load specified background image
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2
2020-11-16 12:24:23+01 OS-X-1015 Installer[659]: External component packages (1) trustLevel=2 (trust evaluation failed: Error
Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package
"ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution,
PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600001fb9cb0 {Error Domain=NSOSStatusErrorDomain
Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted,
NSLocalizedStringFailureReason=CSSMERR_TP_CERT_EXPIRED}}})
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: @(#)PROGRAM:Install PROJECT:Install-1000
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: @(#)PROGRAM:Installer PROJECT:Installer-965.1
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Hardware: VMware7,1 @ 3.34 GHz, 2048 MB RAM
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Running OS Build: Mac OS X 10.15.3 (19D76)
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: USER=jenkins
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: COMMAND_MODE=unix2003
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: PATH=/usr/bin:/bin:/usr/sbin:/sbin
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: LOGNAME=jenkins
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: SSH_AUTH_SOCK=/private/tmp/com.apple.launchd.d1cLHRTEiR/Listeners
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: HOME=/Users/jenkins
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: SHELL=/bin/zsh
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: TMPDIR=/var/folders/9r/n_s0gdwx77x_cdgvnI0Im1_00000gp/T/
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: __CF_USER_TEXT_ENCODING=0x1F6:0x0:0x0
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: XPC_SERVICE_NAME=com.apple.xpc.launchd.oneshot.0x10000006.Installer
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Env: XPC_FLAGS=0x0
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: ctools-1.7.2 1.7.2 Installation Log
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Opened from: /Volumes/ctools-1.7.2/ctools-1.7.2.pkg
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Package Authoring Error: <background_scaling> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Package Authoring Error: <background_alignment> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Package Authoring Error: <layout-direction> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Failed to load specified background image
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2
2020-11-16 12:24:53+01 OS-X-1015 Installer[665]: External component packages (1) trustLevel=2 (trust evaluation failed: Error
Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package
"ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution,
PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600001b48cf0 {Error Domain=NSOSStatusErrorDomain
Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted,
NSLocalizedStringFailureReason=CSSMERR_TP_CERT_EXPIRED}}})
2020-11-16 12:24:56+01 OS-X-1015 Installer[665]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2
2020-11-16 12:24:56+01 OS-X-1015 Installer[665]: External component packages (1) trustLevel=2 (trust evaluation failed: Error
```

```
Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package
"ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution,
PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600001b7e910 {Error Domain=NSOSStatusErrorDomain
Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted,
NSLocalizedString=CSSMERR_TP_CERT_EXPIRED}}})
2020-11-16 12:24:56+01 OS-X-1015 Installer[665]: Could not load resource readme: (null)
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]:
=====
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: User picked Standard Install
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: Choices selected for installation:
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: Install: ""
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: Install: "(null)"
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: ctools-1.7.2.pkg#ctools-1.7.2.pkg : cta.irap.omp.eu.ctools.pkg : 1.7.2
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]:
=====
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: It took 0.00 seconds to summarize the package selections.
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: -[IFDInstallController(Private) _buildInstallPlanReturningError:]: location = file://localhost
file://localhost/Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg
2020-11-16 12:25:04+01 OS-X-1015 Installer[665]: Set authorization level to root for session
2020-11-16 12:25:14+01 OS-X-1015 Installer[665]: Administrator authorization granted.
2020-11-16 12:25:14+01 OS-X-1015 Installer[665]: Will use PK session
2020-11-16 12:25:14+01 OS-X-1015 Installer[665]: Using authorization level of root for IFPKInstallElement
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Starting installation:
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Configuring volume "Macintosh HD"
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Preparing disk for local booted install.
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Free space on "Macintosh HD": 20,76 GB (20757995520 bytes).
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Create temporary directory
"/var/folders/9r/n_s0gdwx77x_cdgvnl0lm1_00000gp/T//Install.665q1MO52"
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: IFPKInstallElement (1 packages)
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Package: PKLeopardPackage <id=cta.irap.omp.eu.ctools.pkg, version=1.7.2,
url=file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg> Failed to verify with error: Error Domain=PKInstallErrorDomain Code=102 "The
package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg
-- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg,
NSUnderlyingError=0x600001bc2010 {Error Domain=NSOSStatusErrorDomain Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED"
UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedString=CSSMERR_TP_CERT_EXPIRED}}})
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Failed install preflight: Error Domain=PKInstallErrorDomain Code=102 "The package
"ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg --
file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg,
NSUnderlyingError=0x600001bc2010 {Error Domain=NSOSStatusErrorDomain Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED"
UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedString=CSSMERR_TP_CERT_EXPIRED}}})
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Install failed.
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: IFDInstallController 150B700 state = 8
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: Displaying 'Install Failed' UI.
2020-11-16 12:25:15+01 OS-X-1015 Installer[665]: 'Install Failed' UI displayed message:'The package "ctools-1.7.2.pkg" is untrusted.'.
2020-11-16 12:25:31+01 OS-X-1015 Installer[665]: Package Removal: User opted to keep package.
jenkins@OS-X-1015 ~ %
```

This looks indeed like a certificate issue.

### #3 - 11/16/2020 02:19 PM - Knödseder Jürgen

- Related to Action #1949: Sign packages added

### #4 - 11/16/2020 02:20 PM - Knödseder Jürgen

More information on signing package on mac OS can be found in the issue #1949.

Testing the binary package using the spctl tool gives

```
$ spctl -a -vv --type install /Volumes/ctools-1.7.2/ctools-1.7.2.pkg
/Volumes/ctools-1.7.2/ctools-1.7.2.pkg: rejected
origin=ctools
```

Information of code signing can be found at the Apple developer sites: <https://help.apple.com/xcode/mac/current/#/dev033e997ca>. A developer ID is needed for that, and the cost for this ID is 99€ per year. Following <https://simplemdm.com/certificate-sign-macos-packages/> signing is also possible with third party certificates (e.g. TLS/SSL).

Others also faced the problem (see <https://gitlab.gnome.org/GNOME/gimp/-/issues/946> or <https://developers.mattermost.com/contribute/desktop/code-signing/>). Not clear whether there is really a work around the Apple developer ID.

### #5 - 11/16/2020 04:00 PM - Knödseder Jürgen

- % Done changed from 10 to 20

Using

```
sudo spctl --master-disable
```

I circumvented the first error screen, but I still got the second screen and the following error message in /var/log/install.log:

```
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: @(#)PROGRAM:Install PROJECT:Install-1000
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: @(#)PROGRAM:Installer PROJECT:Installer-965.1
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Hardware: VMware7,1 @ 3.34 GHz, 2048 MB RAM
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Running OS Build: Mac OS X 10.15.3 (19D76)
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: USER=jenkins
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: COMMAND_MODE=unix2003
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: PATH=/usr/bin:/bin:/usr/sbin:/sbin
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: LOGNAME=jenkins
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: SSH_AUTH_SOCK=/private/tmp/com.apple.launchd.brIXzzmibj/Listeners
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: HOME=/Users/jenkins
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: SHELL=/bin/zsh
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: TMPDIR=/var/folders/9r/n_s0gdwx77x_cdgvnI0lm1_00000gp/T/
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: __CF_USER_TEXT_ENCODING=0x1F6:0x0:0x0
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: XPC_SERVICE_NAME=com.apple.xpc.launchd.oneshot.0x10000009.Installer
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Env: XPC_FLAGS=0x0
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: ctools-1.7.2 1.7.2 Installation Log
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Opened from: /Volumes/ctools-1.7.2/ctools-1.7.2.pkg
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Package Authoring Error: <background_scaling> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Package Authoring Error: <background_alignment> has an unsupported MIME type:
```

```

X-NSObject/NSNumber
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Package Authoring Error: <layout-direction> has an unsupported MIME type:
X-NSObject/NSNumber
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Failed to load specified background image
2020-11-16 15:43:39+01 OS-X-1015 Installer[975]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2
2020-11-16 15:43:40+01 OS-X-1015 Installer[975]: External component packages (1) trustLevel=2 (trust evaluation failed: Error
Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedDescription=The package
"ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution,
PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x60000cd1110 {Error Domain=NSOSStatusErrorDomain
Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted,
NSLocalizedFailureReason=CSSMERR_TP_CERT_EXPIRED}})})
2020-11-16 15:43:42+01 OS-X-1015 Installer[975]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2
2020-11-16 15:43:42+01 OS-X-1015 Installer[975]: External component packages (1) trustLevel=2 (trust evaluation failed: Error
Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedDescription=The package
"ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution,
PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600000ceabb0 {Error Domain=NSOSStatusErrorDomain
Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted,
NSLocalizedFailureReason=CSSMERR_TP_CERT_EXPIRED}})})
2020-11-16 15:43:42+01 OS-X-1015 Installer[975]: Could not load resource readme: (null)
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]:
=====
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: User picked Standard Install
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: Choices selected for installation:
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: Install: ""
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: Install: "(null)"
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: ctools-1.7.2.pkg#ctools-1.7.2.pkg : cta.irap.omp.eu.ctools.pkg : 1.7.2
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]:
=====
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: It took 0.00 seconds to summarize the package selections.
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: -[IFDInstallController(Private) _buildInstallPlanReturningError:]: location = file://localhost
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: -[IFDInstallController(Private) _buildInstallPlanReturningError:]:
file://localhost/Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg
2020-11-16 15:43:48+01 OS-X-1015 Installer[975]: Set authorization level to root for session
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Administrator authorization granted.
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Will use PK session
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Using authorization level of root for IFPKInstallElement
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Starting installation:
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Configuring volume "Macintosh HD"
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Preparing disk for local booted install.
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Free space on "Macintosh HD": 21,81 GB (21806542848 bytes).
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Create temporary directory
"/var/folders/9r/n_s0gdwx77x_cdgvn10lm1_00000gp/T/Install.975WEB4q7"
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: IFPKInstallElement (1 packages)
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Package: PKLeopardPackage <id=cta.irap.omp.eu.ctools.pkg, version=1.7.2,
url=file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg> Failed to verify with error: Error Domain=PKInstallErrorDomain Code=102 "The
package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedDescription=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg
-- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg,
NSUnderlyingError=0x600000c55fe0 {Error Domain=NSOSStatusErrorDomain Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED"
UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR_TP_CERT_EXPIRED}})})
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Failed install preflight: Error Domain=PKInstallErrorDomain Code=102 "The package
"ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedDescription=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg --
file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg,
NSUnderlyingError=0x600000c55fe0 {Error Domain=NSOSStatusErrorDomain Code=-2147409654 "CSSMERR_TP_CERT_EXPIRED"
UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR_TP_CERT_EXPIRED}})})
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Install failed.
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: IFDInstallController 29F780 state = 8
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: Displaying 'Install Failed' UI.
2020-11-16 15:43:57+01 OS-X-1015 Installer[975]: 'Install Failed' UI displayed message:'The package "ctools-1.7.2.pkg" is untrusted.'.
2020-11-16 15:44:33+01 OS-X-1015 Installer[975]: Package Removal: Package is not in downloads directory. Not offering removal.
2020-11-16 15:44:33+01 OS-X-1015 Installer[975]: Package Removal: Package cannot be removed.

```

Changing the year to 2017 I managed to get rid of the CSSMERR\_TP\_CERT\_EXPIRED message, but now get CSSMERR\_TP\_NOT\_TRUSTED instead. So whatever I do, there seems to be an additional level of checking on Catalina that prevents the binary package to install.

```

2017-11-14 15:54:14+01 OS-X-1015 Installer[1039]: Install failed.
2017-11-14 15:54:14+01 OS-X-1015 Installer[1039]: IFDInstallController 1A934C0 state = 8
2017-11-14 15:54:14+01 OS-X-1015 Installer[1039]: Displaying 'Install Failed' UI.
2017-11-14 15:54:14+01 OS-X-1015 Installer[1039]: 'Install Failed' UI displayed message:'The package "ctools-1.7.2.pkg" is untrusted.'.
2017-11-14 15:54:17+01 OS-X-1015 Installer[1039]: Package Removal: Package is not in downloads directory. Not offering removal.
2017-11-14 15:54:17+01 OS-X-1015 Installer[1039]: Package Removal: Package cannot be removed.
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: @(#)PROGRAM:Install PROJECT:Install-1000
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: @(#)PROGRAM:Installer PROJECT:Installer-965.1
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Hardware: VMware7,1 @ 3.34 GHz, 2048 MB RAM

```

2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Running OS Build: Mac OS X 10.15.3 (19D76)  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: USER=jenkins  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: COMMAND\_MODE=unix2003  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: PATH=/usr/bin:/bin:/usr/sbin:/sbin  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: LOGNAME=jenkins  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: SSH\_AUTH\_SOCK=/private/tmp/com.apple.launchd.brIXzzmibj/Listeners  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: HOME=/Users/jenkins  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: SHELL=/bin/zsh  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: TMPDIR=/var/folders/9r/n\_s0gdwx77x\_cdgvnl0lm1\_00000gp/T/  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: \_\_CF\_USER\_TEXT\_ENCODING=0x1F6:0x0:0x0  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: XPC\_SERVICE\_NAME=com.apple.xpc.launchd.oneshot.0x1000000b.Installer  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Env: XPC\_FLAGS=0x0  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: ctools-1.7.2 1.7.2 Installation Log  
2017-11-14 15:54:39+01 OS-X-1015 Installer[1059]: Opened from: /Volumes/ctools-1.7.2/ctools-1.7.2.pkg  
2017-11-14 15:54:40+01 OS-X-1015 Installer[1059]: Package Authoring Error: <background\_scaling> has an unsupported MIME type: X-NSObject/NSNumber  
2017-11-14 15:54:40+01 OS-X-1015 Installer[1059]: Package Authoring Error: <background\_alignment> has an unsupported MIME type: X-NSObject/NSNumber  
2017-11-14 15:54:40+01 OS-X-1015 Installer[1059]: Package Authoring Error: <layout-direction> has an unsupported MIME type: X-NSObject/NSNumber  
2017-11-14 15:54:40+01 OS-X-1015 Installer[1059]: Failed to load specified background image  
2017-11-14 15:54:40+01 OS-X-1015 Installer[1059]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2  
2017-11-14 15:54:40+01 OS-X-1015 Installer[1059]: External component packages (1) trustLevel=2 (trust evaluation failed: Error Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x600000245020 {Error Domain=NSOSStatusErrorDomain Code=-2147409622 "CSSMERR\_TP\_NOT\_TRUSTED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR\_TP\_NOT\_TRUSTED}}})  
2017-11-14 15:54:43+01 OS-X-1015 Installer[1059]: Product archive /Volumes/ctools-1.7.2/ctools-1.7.2.pkg trustLevel=2  
2017-11-14 15:54:43+01 OS-X-1015 Installer[1059]: External component packages (1) trustLevel=2 (trust evaluation failed: Error Domain=PKInstallErrorDomain Code=102 "The package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg -- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg, NSUnderlyingError=0x60000027d140 {Error Domain=NSOSStatusErrorDomain Code=-2147409622 "CSSMERR\_TP\_NOT\_TRUSTED" UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR\_TP\_NOT\_TRUSTED}}})  
2017-11-14 15:54:43+01 OS-X-1015 Installer[1059]: Could not load resource readme: (null)  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]:  
=====

2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: User picked Standard Install  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: Choices selected for installation:  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: Install: ""  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: Install: "(null)"  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: ctools-1.7.2.pkg#ctools-1.7.2.pkg : cta.irap.omp.eu.ctools.pkg : 1.7.2  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]:  
=====

2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: It took 0.00 seconds to summarize the package selections.  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: -[IFDInstallController(Private) \_buildInstallPlanReturningError:]: location = file://localhost  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: -[IFDInstallController(Private) \_buildInstallPlanReturningError:]:  
file://localhost/Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg  
2017-11-14 15:54:50+01 OS-X-1015 Installer[1059]: Set authorization level to root for session  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Administrator authorization granted.  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Will use PK session  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Using authorization level of root for IFPKInstallElement  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Starting installation:  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Configuring volume "Macintosh HD"  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Preparing disk for local booted install.  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Free space on "Macintosh HD": 21,81 GB (21807063040 bytes).  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Create temporary directory  
"/var/folders/9r/n\_s0gdwx77x\_cdgvnl0lm1\_00000gp/T/Install.1059yJOUln"  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: IFPKInstallElement (1 packages)  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Package: PKLeopardPackage <id=cta.irap.omp.eu.ctools.pkg, version=1.7.2,  
url=file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#ctools-1.7.2.pkg> Failed to verify with error: Error Domain=PKInstallErrorDomain Code=102 "The  
package "ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg  
-- file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg,  
NSUnderlyingError=0x6000002c1fe0 {Error Domain=NSOSStatusErrorDomain Code=-2147409622 "CSSMERR\_TP\_NOT\_TRUSTED"  
UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR\_TP\_NOT\_TRUSTED}})  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Failed install preflight: Error Domain=PKInstallErrorDomain Code=102 "The package  
"ctools-1.7.2.pkg" is untrusted." UserInfo={NSLocalizedString=The package "ctools-1.7.2.pkg" is untrusted., NSURL=#ctools-1.7.2.pkg --  
file:///Volumes/ctools-1.7.2/ctools-1.7.2.pkg#Distribution, PKInstallPackageIdentifier=cta.irap.omp.eu.ctools.pkg,  
NSUnderlyingError=0x6000002c1fe0 {Error Domain=NSOSStatusErrorDomain Code=-2147409622 "CSSMERR\_TP\_NOT\_TRUSTED"  
UserInfo={SecTrustResult=5, PKTrustLevel=PKTrustLevelNotTrusted, NSLocalizedFailureReason=CSSMERR\_TP\_NOT\_TRUSTED}})  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Install failed.  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: IFDInstallController C0B5A0 state = 8  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: Displaying 'Install Failed' UI.  
2017-11-14 15:54:59+01 OS-X-1015 Installer[1059]: 'Install Failed' UI displayed message:'The package "ctools-1.7.2.pkg" is untrusted.'



2017-11-14 15:55:03+01 OS-X-1015 Installer[1059]: Package Removal: Package is not in downloads directory. Not offering removal.  
2017-11-14 15:55:03+01 OS-X-1015 Installer[1059]: Package Removal: Package cannot be removed.

#### #6 - 11/16/2020 05:06 PM - Knödlseher Jürgen

I tried building the package on Mac OS X 10.15.

First I needed to add jenkins to the /etc/sudoers file. Then I needed to install wget:

```
% brew install wget
```

Before building the package I commented the last two lines in dev/pkgbuild-macosx.sh:

```
#rm -rf $PKGDIR  
#rm -rf $PRODDIR
```

Then I was able to build the package using:

```
% cd /Users/jenkins/jenkins/workspace/ctools-release-os/label/macosx15  
% export GAMMALIB=$HOME/jenkins/install/release/gammalib  
% . $GAMMALIB/bin/gammalib-init.sh  
% make pkg  
...  
pkgbuild: Inferring bundle components from contents of /usr/local/gamma  
pkgbuild: Writing new component property list to  
/Users/jenkins/jenkins/workspace/ctools-release-os/label/macosx15/pkg_build/pkg/ctools-1.7.2-components.plist  
pkgbuild: Reading components from /Users/jenkins/jenkins/workspace/ctools-release-os/label/macosx15/pkg_build/pkg/ctools-1.7.2-components.plist  
pkgbuild: Wrote package to /Users/jenkins/jenkins/workspace/ctools-release-os/label/macosx15/pkg_build/pkg/ctools-1.7.2.pkg  
productbuild: Wrote synthesized distribution to /Users/jenkins/jenkins/workspace/ctools-release-os/label/macosx15/pkg_build/prod/ctools-1.7.2.dist  
productbuild: error: Cannot write product to "/Users/jenkins/jenkins/workspace/ctools-release-os/label/macosx15/pkg_build/prod/ctools-1.7.2.pkg".  
(Could not find appropriate signing identity for "ctools".)  
hdiutil: create failed - No such file or directory  
make: *** [pkg] Error 1
```

The error is due to the fact that the "ctools" certificat does not exist on Mac OS X 10.15. The package is however generated correctly. Installation of this package worked, but this is probably normal since it was built on the same machine.

I succeeded however to install this package also on OS 11.0. There was the usual issue with a package not coming from a trusted site, yet installation worked then without any problem. I should check whether not signing the package actually resolves the issue using the OS 10.7 package build.

## #7 - 11/16/2020 06:50 PM - Knödseder Jürgen

- % Done changed from 20 to 30

Creating a package on Mac OS 10.7 without certificat worked. I then copied the package on the Mac OS 10.15 VM:

```
$ scp pkg_build/pkg/ctools-1.7.2.pkg jenkins@172.16.198.15:ctools-1.7.2-macosx10.7-nocert.pkg
```

and on Mac OS 10.15 I installed the package using

```
$ ssh jenkins@172.16.198.15
% sudo installer -pkg ctools-1.7.2-macosx10.7-nocert.pkg -target /
Password:
installer: Package name is ctools-1.7.2-macosx10.7-nocert
installer: Upgrading at base path /
installer: The upgrade was successful.
```

I tried to install also the existing package in the disk image from command line:

```
% wget http://cta.irap.omp.eu/ctools/releases/ctools/ctools-1.7.2-macosx10.7.dmg
% hdiutil attach ctools-1.7.2-macosx10.7.dmg
Checksumming Driver Descriptor Map (DDM : 0)...
  Driver Descriptor Map (DDM : 0): verified CRC32 $883F120B
Checksumming Apple (Apple_partition_map : 1)...
  Apple (Apple_partition_map : 1): verified CRC32 $4EFBBD40
Checksumming disk image (Apple_HFS : 2)...
.....
  disk image (Apple_HFS : 2): verified CRC32 $793DDCFB
Checksumming (Apple_Free : 3)...
  (Apple_Free : 3): verified CRC32 $00000000
verified CRC32 $CDF668B9
/dev/disk2      Apple_partition_scheme
/dev/disk2s1    Apple_partition_map
/dev/disk2s2    Apple_HFS                /Volumes/ctools-1.7.2
% sudo installer -pkg /Volumes/ctools-1.7.2/ctools-1.7.2.pkg -target /
installer: Package name is ctools-1.7.2
installer: Certificate used to sign package is not trusted. Use -allowUntrusted to override.
% sudo installer -pkg /Volumes/ctools-1.7.2/ctools-1.7.2.pkg -target / -allowUntrusted
installer: Package name is ctools-1.7.2
installer: Upgrading at base path /
installer: The upgrade failed..
% hdiutil detach /Volumes/ctools-1.7.2
"disk2" ejected.
```

So this failed as expected.

Finally I tried the non-certified disk image:

```
% hdiutil attach ctools-1.7.2-macosx10.7-nocert.dmg
Checksumming Driver Descriptor Map (DDM : 0)...
  Driver Descriptor Map (DDM : 0): verified CRC32 $2AB46A96
Checksumming Apple (Apple_partition_map : 1)...
  Apple (Apple_partition_map : 1): verified CRC32 $1795EE24
Checksumming disk image (Apple_HFS : 2)...
.....
  disk image (Apple_HFS : 2): verified CRC32 $257C43BB
Checksumming (Apple_Free : 3)...
  (Apple_Free : 3): verified CRC32 $00000000
verified CRC32 $BF7A970D
/dev/disk2      Apple_partition_scheme
/dev/disk2s1    Apple_partition_map
/dev/disk2s2    Apple_HFS                /Volumes/ctools-1.7.2
% sudo installer -pkg /Volumes/ctools-1.7.2/ctools-1.7.2.pkg -target /
Password:
installer: Package name is ctools-1.7.2
installer: Upgrading at base path /
```

installer: The upgrade was successful.  
% hdiutil detach /Volumes/ctools-1.7.2  
"disk2" ejected.

So having no certificat seems to be better than having an untrusted / expired one.

**#8 - 11/17/2020 10:50 AM - Knödseder Jürgen**

- Status changed from *In Progress* to *Feedback*
- Target version set to *2.0.0*
- % Done changed from *30* to *100*

Installation of the new binary package worked successfully on Mac OS Catalina. I put the issue on feedback to see whether it also solves the issue for Talvikki.

**#9 - 11/17/2020 11:04 AM - Knödseder Jürgen**

- Status changed from *Feedback* to *Closed*

It also works for Talvikki.

I also made sure that the change is propagated into the devel branch.

I close the issue now.

**Files**

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Screenshot 2020-11-13 at 11.25.56.png	42 KB	11/13/2020	Knödseder Jürgen
Screenshot 2020-11-13 at 10.43.54.png	55 KB	11/13/2020	Knödseder Jürgen