

# ClarusGumpConfig

## Gump Installation on Clarus.apache.org

Clarus is a dual CPU Xserve G4 made available by Apple. It runs the latest update of Mac OS X Server 10.4 and has JVM 1.4.2 and 1.5 installed (1.4.2 is the default). The machine has two RAID1 mirrors, 56Gb mounted on / and 172Gb mounted on /X1. Users have their home directory on the /X1 volume. The latest XCode (2.1 I believe) is installed to get the C compiler and accompanying goodies.

### Prerequisite Installations

Everything is installed in /usr/local/package-install, in line with the preferred installation method used by the Infrastructure team.

```
clarus:~ sctemme$ ls -l /usr/local
total 0
drwxr-xr-x  7 root  wheel  238 Jan 25 23:05 apr-install
drwxr-xr-x  8 root  wheel  272 Feb 18 11:49 bin
drwxr-xr-x  4 root  wheel  136 Jan 25 20:51 include
drwxr-xr-x  7 root  wheel  238 Jan 25 20:51 lib
drwxr-xr-x  6 root  wheel  204 Feb 18 03:25 man
drwxr-xr-x  4 root  wheel  136 Feb 13 09:13 maven-install
drwxr-xr-x  4 root  wheel  136 Feb 12 14:18 maven2-install
drwxr-xr-x  4 root  wheel  136 Feb 18 11:34 nant-install
drwxr-xr-x  4 root  wheel  136 Jan 28 10:42 python-install
drwxr-xr-x  3 root  wheel  102 Jan 28 10:17 share
drwxr-xr-x  4 root  wheel  136 Jan 25 22:35 svn-install
```

Every installation directory can hold several versions side-by-side, with the currently active version symlinked to *current*:

```
clarus:~ sctemme$ ls -l /usr/local/maven-install
total 8
lrwxr-xr-x  1 root  wheel   11 Feb 13 09:13 current -> maven-1.0.2
drwxr-xr-x  7 root  wheel  238 Dec  7 2004 maven-1.0.2
```

Several exceptions exist: Mono was installed using the Mac OS X installer made available by the project. It installs in the OS directories with the runtime as /usr/bin/mono. GNU Pathtools (if I recall correctly) went directly into /usr/local. NAnt is executed by the following shell script in /usr/local/bin/nant:

```
#!/bin/sh
exec mono /usr/local/nant-install/current/bin/NAnt.exe "$@"
```

### Environment

The user that executes Gump (my own moniker, sctemme, for now) has the following .profile:

```
MAVEN_HOME=/usr/local/maven-install/current
M2_HOME=/usr/local/maven2-install/current
PATH=${M2_HOME}/bin:${M2_HOME}/bin:/usr/local/python-install/current/bin:${PATH}:/usr/local/bin:/usr/local/sbin:/usr/local/svn-install/current/bin
JAVA_HOME=/Library/Java/Home
GUMP_PYTHON=/usr/local/python-install/current/bin/python
export JAVA_HOME GUMP_PYTHON MAVEN_HOME M2_HOME
```

Note the use of the *current* installation directory for the installed packages. Also, the PATH setup prefers the local Python install over the one that came with the OS. However, we have to set GUMP\_PYTHON to prevent Gump from defaulting to a hardcoded python2.3 somewhere down the pike.

The ~/.profile is source by login shells (only), but since the variables are exported, they are inherited by subshells such as the ones started by screen(1).

### Gump Installation

Gump is checked out into ~/asf/gump/trunk. So far, it has been started by running ./gump run from that directory. The packages are installed in ~/packages and symlinked into ~/asf/gump/trunk/work to protect against any urge to blow away the checkout and start anew.

Two installation-specific configuration files:

```
clarus:~/asf/gump/trunk sctemme$ cat cron/local-env-clarus.sh
GUMP_HOME=/Volumes/X1/home/sctemme/asf/gump/trunk
JAVA_HOME=/Library/Java/Home
```

(not sure whether this is used for the manual runs)

```
clarus:~/asf/gump/trunk sctemme$ cat metadata/clarus.local.xml
<?xml version="1.0"?>

<!-- Snip Apache license, version 2.0 -->

<workspace
  version="0.4"
  name="minimal"
  basedir="work/workspace"
  pkgdir="work/packages"
  jardir="work/jars"
  logdir="work/logs">

  <property name="build.sysclasspath" value="only"/>

  <profile href="profile/gump.xml"/>

  <database database="gump_test" user="gump" passwd="mYp@ssw0rd"/>
</workspace>
```

## Apache HTTPd Configuration

To publish the results, we're using the default Apache httpd that comes with Mac OS X Server. It has been configured through the administrator GUI, which results in a configuration snippet somewhat like the following:

```

## Default Virtual Host Configuration

<VirtualHost 209.237.227.206:16080>
    ServerName clarus.apache.org.
    ServerAdmin admin@example.com
    DocumentRoot "/Library/WebServer/gump"
    DirectoryIndex "index.html" "index.php"
    CustomLog "|/usr/sbin/rotatelog" "/var/log/httpd/access_log" 604800' "%{PC-Remote-Addr}i %l %u %t \"%s
r\" %>s %b"
    ErrorLog "|/usr/sbin/rotatelog" "/var/log/httpd/error_log" 604800'
    ErrorDocument 404 /error.html
    <IfModule mod_ssl.c>
        SSLEngine Off
        SSLLog "/var/log/httpd/ssl_engine_log"
        SSLCertificateFile "/etc/certificates/Default.crt"
        SSLCertificateKeyFile "/etc/certificates/Default.key"
        SSLCipherSuite "ALL:!ADH:RC4+RSA:+HIGH:+MEDIUM:+LOW:!SSLv2:+EXP:+eNULL"
    </IfModule>
    <IfModule mod_dav.c>
        DAVLockDB "/var/run/davlocks/.davlockany_80_default"
        DAVMinTimeout 600
    </IfModule>
    <Directory "/Library/WebServer/gump">
        Options All -Indexes -ExecCGI -Includes +MultiViews
        <IfModule mod_dav.c>
            DAV Off
        </IfModule>
        AllowOverride None
    </Directory>
    <IfModule mod_rewrite.c>
        RewriteEngine On
        RewriteCond %{REQUEST_METHOD} ^TRACE
        RewriteRule .* - [F]
    </IfModule>
    <IfModule mod_alias.c>
    </IfModule>
    ServerAlias *
    LogLevel warn
</VirtualHost>

```

/Library/WebServer/gump is a symlink to ~/asf/gump/trunk/work/logs