Fixing "Cannot find autoconf" error while building PHP extension from a FreeBSD port

Today I had to add the PHP 'bcmath' extension to my FreeBSD host. Actually, that's a fairly easy one-liner:

[root@localhost ~]# cd /usr/ports/math/php5-bcmath && make clean install

However, I ended up with a crude error message:

Cannot find autoconf. Please check your autoconf installation and the \$PHP_AUTOCONF environment variable. Then, rerun this script.

Bummer! So let's see how to fix this.

Here's the complete output from the failed build:

[root@localhost/usr/ports/math/php5-bcmath]# make

- ===> Vulnerability check disabled, database not found
- ===> License check disabled, port has not defined LICENSE
- ===> Extracting for php5-bcmath-5.3.3_2
- => SHA256 Checksum OK for php-5.3.3.tar.bz2.
- ===> Patching for php5-bcmath-5.3.3_2
- ===> php5-bcmath-5.3.3_2 depends on file: /usr/local/bin/phpize found
- ===> php5-bcmath-5.3.3_2 depends on file: /usr/local/bin/autoconf-2.68 found
- ===> PHPizing for php5-bcmath-5.3.3_2

Configuring for:

PHP Api Version: 20090626 Zend Module Api No: 20090626 Zend Extension Api No: 220090626

Cannot find autoconf. Please check your autoconf installation and the \$PHP_AUTOCONF environment variable. Then, rerun this script.

*** Error code 1

Stop in /usr/ports/math/php5-bcmath.

From this we see, that error occurs during **phpize**, which tries to configure/build the extension matching up the currently installed PHP.

Looking into **phpize**, which is actually a plain script, we find these lines:

[root@noc2/usr/ports/math/php5-bcmath]# grep -E -e 'PHP_AUTO(CONF|HEADER)' /usr/local/bin/phpize test -z "\$PHP_AUTOCONF" && PHP_AUTOCONF=autoconf-2.62

test -z "\$PHP_AUTOHEADER" && PHP_AUTOHEADER=autoheader-2.62
if test ! -x "\$PHP_AUTOCONF" && test ! -x "`\$php_shtool path \$PHP_AUTOCONF`"; then
\$PHP_AUTOCONF environment variable. Then, rerun this script.
if test ! -x "\$PHP_AUTOHEADER" && test ! -x "`\$php_shtool path \$PHP_AUTOHEADER`"; then
\$PHP_AUTOHEADER environment variable. Then, rerun this script.
\$PHP_AUTOCONF || exit 1
\$PHP_AUTOHEADER || exit 1

So **phpize** actually checks for existence of the PHP_AUTOCONF and PHP_AUTOHEADER environment variables. If these are missing, it will use some defaults for the autoconf/autoheader tools. The default were derived during the initial build which at that time were **autoconf-2.62** and **autoheader-2.62**.

Checking installed ports reveals that there's a newer version installed, which is why **phpize** fails so terribly.

[root@noc2/usr/ports/math/php5-bcmath]# pkg_info|grep autoconf autoconf-2.68 Automatically configure source code on many Un*x platforms autoconf-wrapper-20071109 Wrapper script for GNU autoconf

To permanently fix this, you can do either of the following:

simply change the PHP_AUTOCONF and PHP_AUTOHEADER variables in /usr/local/bin/phpize to reflect the currently installed version

- additionally install the old autoconf version besides the new one Invoke the build like this:

PHP_AUTOCONF=autoconf PHP_AUTOHEADER=autoheader make configure