

Vaucanson, a generic library for finite state machines. Copyright (C) 2001, 2002, 2003, 2004, 2005, 2006, 2007 The Vaucanson Group.

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## Vaucanson Frequently Asked Questions

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Here are answers to different questions you may have while compiling or using [Vaucanson](#).

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### Compilation Problems

#### **I have a “NAN undeclared” error. What can I do?**

Your C++ compiler does not support the C99 standard library. This is a known bug (NAN should not be used without checking for its existence before) and will be corrected. Meanwhile, use another compiler, such as the [GNU C++ Compiler](#) version 3.3 or above.

#### **I have a conflict declaration for `int getopt()`.**

The flag `HAVE_DECL_GETOPT` must be set. Compile with `-DHAVE_DECL_GETOPT`. To use this flag with the script `configure`, call it with:

```
configure CPPFLAGS='-DHAVE_DECL_GETOPT'
```

### Usage issues

#### **The expression parser behave incorrectly on some expressions**

For example, expressions with weights such as `a 2*` (meaning “the star of `a` with weight 2”) are not parsed correctly.

Solution: write `(a 2)*` instead. This problem is due to the use of LL parsing, which cannot handle expressions like the example above. This is a known misfeature, that cannot be corrected without making the code bigger and slower. Since a very readable, simple workaround exists, use it instead.