Currently we use c99, or rather gnu99. c11 brings some nice improvements like thread local, atomics, anonymous structs and unions.

First step is to investigate if all platforms have a c11 compliant compiler available.

Related issues:
Related to Optimization #3655: default to c11 standard

History

#1 - 01/21/2020 09:01 AM - Victor Julien
CentOS 6's gcc is too old. A c11 version can be installed through 'scl'. See for example https://edwards.sdsu.edu/research/c11-on-centos-6/

#2 - 01/21/2020 11:19 AM - Victor Julien
Snippet from my Gitlab-CI centos:6 builder:

centos:6:scl:
  image: centos:6
  stage: test
  before_script:
    - source setupenv.sh
    - yum -y install epel-release centos-release-scl
    - yum -y install devtoolset-8
    - source /opt/rh/devtoolset-8/enable
    ...

This gets us:

GCC version 8.3.1 20190311 (Red Hat 8.3.1-3), C version 199901

#3 - 01/21/2020 04:17 PM - Victor Julien
Probably a stretch, but for good measure we should consider c18 while at it.

#4 - 04/17/2020 07:47 AM - Victor Julien
- Related to Optimization #3655: default to c11 standard added

#5 - 04/17/2020 07:48 AM - Victor Julien
- Status changed from New to Closed

c18 is too recent for us. Support is absent in many of the supported platforms. c11 support has been added #3655.