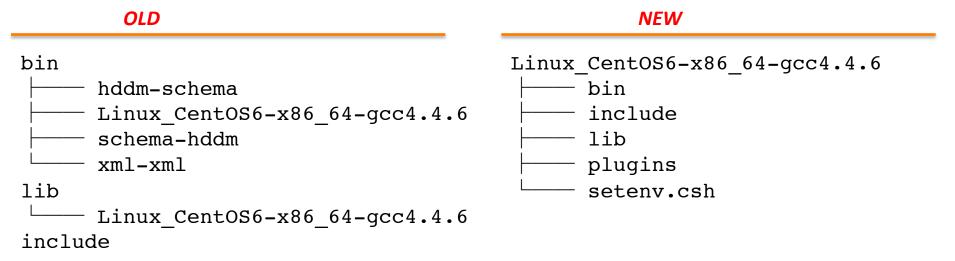# scons build system

- Now default for JANA builds
- Implemented in sim-recon, but not yet the default
- Advantages:
  - Faster builds (sim-recon: *24min 15s vs. 1min 39s on 16-core machine*)
  - Built-in dependency checks (*both headers and libraries*)
  - Python
- Converted directory structure to more common form:

OLD

```
bin
├────── hddm-schema
├────── Linux_CentOS6-x86_64-gcc4.4.6
├────── schema-hddm
└────── xml-xml
lib
└────── Linux_CentOS6-x86_64-gcc4.4.6
include
```

NEW

```
Linux_CentOS6-x86_64-gcc4.4.6
├────── bin
├────── include
├────── lib
├────── plugins
└────── setenv.csh
```

https://halldweb1.jlab.org/wiki/index.php/SCons_Build_System