



FNAL Spack / SpackDev status update

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Recap

- Previous **status report 2018-10-03**.
- MVP 1.0 achieved 2018-08-29 for RHEL7-compatible *only* (**instructions**, **bootstrap script**)—limited takeup at the time.
- Some bitrot due to remote URL issues—minor refresh late Jan. 2019 achieved by updating the bootstrap script and shifting a tag or two.
- Test-drives of MVP 1.0 would still be useful!

Recent news and current activities

- There is now a `Spack#hep` Slack channel, and some of us (Ben M., Patrick G., Javier C., myself) have been added as maintainers with limited authority to commit to and merge PRs.
- SpackDev has been reconfigured using Spack [PR 8612](#) to operate as an external Spack command utilizing Spack commands, functions and data structures internally. Concretization overhead for the art suite has gone from >5min to 40s. With a suitably-enhanced Spack installation:

```
spack dev init ...
```

Lots of work under the covers, zero change to user experience (except the extra space and decreased execution time).

Recent news and current activities

- Work is proceeding on recipes for the LArSoft MVP: recent contributions to upstream include `geant4`, `vecgeom` and `clhep`. Other recipes: `genie`, `log4cpp`, `lhapdf`, `ifdhc`, *etc.*
- Freshly-minted discussion document ([SpackWorkItems.md](#), [SpackWorkItems-0.1.pdf](#)) detailing desired / in-process changes to Spack and/or Spack recipes for discussion on `spack#hep` Slack channel.