

# A Minimum Viable Product Specification for Spack and Spackdev

Revision 0.1

---

## Contents

<b>1</b>	<b>Introduction and Motivation</b>	<b>1</b>
<b>2</b>	<b>MVP Specification</b>	<b>1</b>

---

## 1 Introduction and Motivation

A “minimum viable product” specification has been requested; this is defined as the simplest / least-effort system sufficient for early users to be able to use and explore. By its nature, this MVP gives no assurance that the final system will satisfy all requirements, as not all problems will have been solved. It does however give prospective end users of the system a chance to see what the final system will look like in general form, and experiment with using it for their own purposes.

## 2 MVP Specification

The user-facing MVP will consist of a spack-built software stack up through the art suite for one compiler, and a spackdev capable of checking out and building multiple user repositories which have been converted to use cetmods, the proposed replacement for cetbuildtools.

The user will be able to:

- Specify, build, install and use their own external (non-cetmods) products in the same spack installation area as the provided stack.
- Build, install and use their own internal cetmods-using products, including selective override of installed products with products built locally with spackdev.