

OpenMP 4.0 and CCE

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Status

- **SIMD**

- Loop directive mapped to autovectorizer
- Declare directive mapped to inline directive

- **Affinity**

- This is becoming more and more important
- May libraries use “helper” threads, maybe should rename them as “performance killer” threads – least on machines that offer node binding outside of the app

- **Device constructs**

- Mapping target directives onto our OpenACC infrastructure
- Basic implementation was easy
- Still more work to do
- Some issues were found

- **UDRs**

- Implementation has been started

- **Completion**

- Plan to release with next major release of CCE