

P4 VPP Status

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Today's Discussion

- P4 VPP Status Update
- Questions/review of last weeks slides
- Technical Overview of Externs

P4 VPP Status Update

- Added example preprocessor for V1Switch packet
 - Preprocess adds internal metadata
- Worked on interface to extern handler (not yet checked in)
 - Currently working on implementing example externs
 - Should have this ready later this week
- Work continues on the table implementation
- This week: finalize the new extern handler/implement tables

Questions/Review

- Are there questions on last week's slides? Interest in reviewing some of what was there?

Extern Interface

- ExternHandler is now run as a repeated pass.
- Extern methods/functions are expanded with transformer
 - Function can add declarations, surrounding statements
 - Function may also generate new extern calls
- Result is P4 IR calling P4 VPP “intrinsic” extern functions
- Examples will be: `verify`, `packet_in`, `mark_to_drop`

Thanks, Questions?