High Performance Software Engineering

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Performing work for NOAA/ESRL/GSD

GSD Science Review
3-5 Nov 2015
NCEP Operational Forecast Skill
36 and 72 Hour Forecasts @ 500 MB over North America
[100 * (1-S1/70) Method]

[Graph showing the improvement in forecast skill over time from 1955 to 2020, highlighting a 15-year period of significant improvement.]
• Keeps NOAA research competitive
• A catalyst for science
• GSD:
  – Exploits new architectures
  – Explores new techniques
  – Develops software automation
  – Drives process improvement
ePoster

- New software techniques for new architectures
- New software automation methods
- Process improvements
- Collaborations