Introduction to parallel computing with R

Hana Ševčíková

University of Washington hanas@uw.edu

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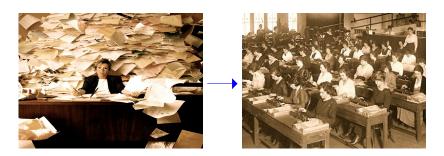
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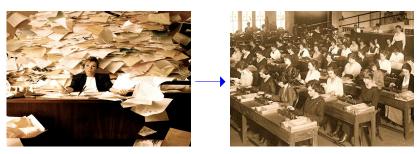
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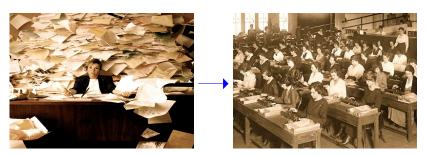


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Parallel processing

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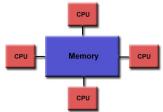
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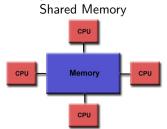
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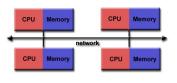
Shared Memory



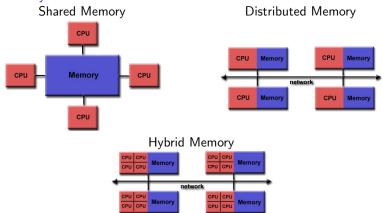
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 - Supported by various programming languages including R

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 - R: pbdR et al, RHadoop, ddR



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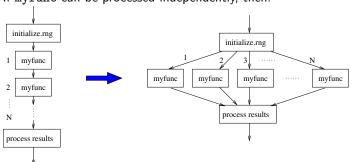
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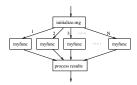
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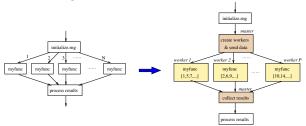
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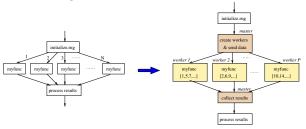
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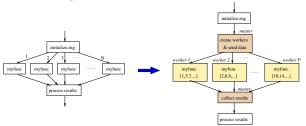


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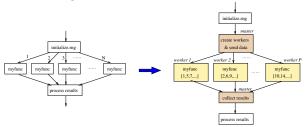
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- ▶ One of the pioneers, snow (Simple Network of Workstations) recently re-implemented as parallel (in R core).

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 - ► In R core: RNGkind("L'Ecuyer-CMRG")