

# Introduction to parallel computing with R

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Link to material: [github.com/hanase/useR2017](https://github.com/hanase/useR2017)

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# Motivation

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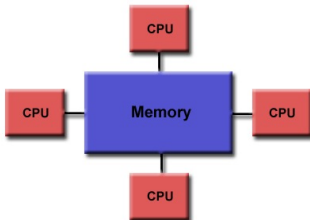
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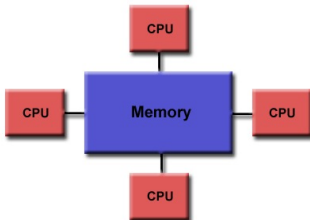
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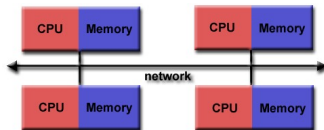
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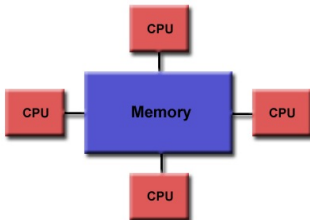
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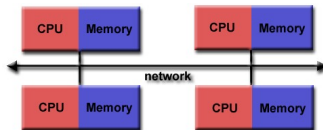
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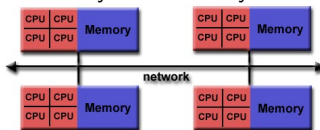
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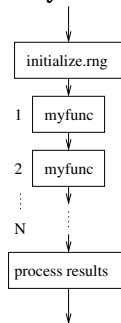
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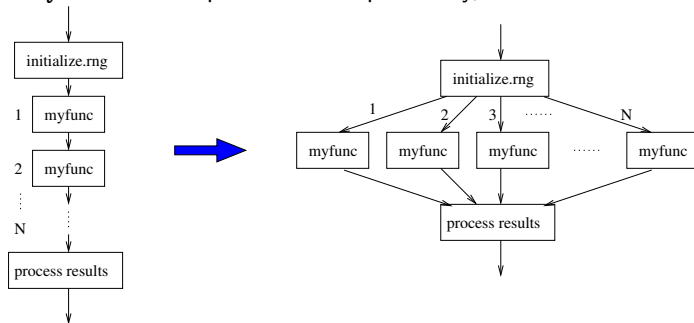


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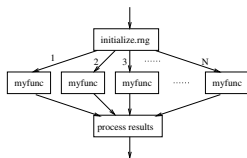
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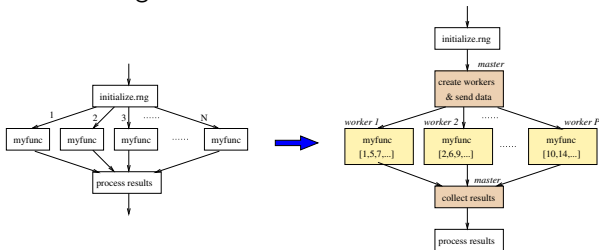
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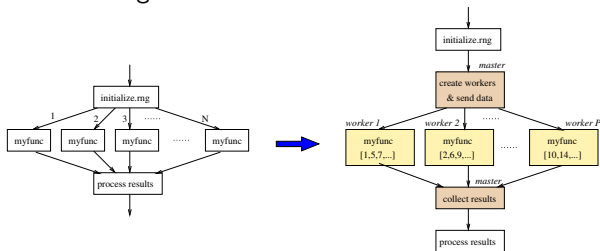
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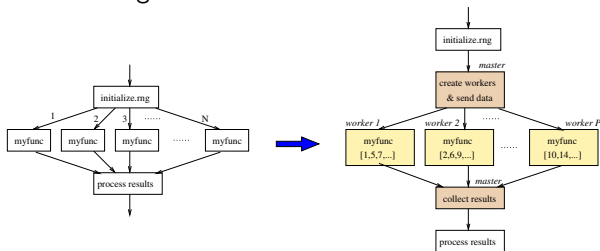
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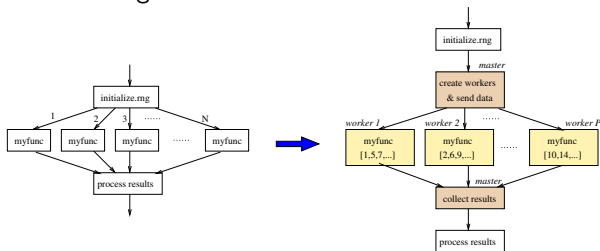
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- ▶ One of the pioneers, [snow](#) (Simple Network of Workstations) recently re-implemented as [parallel](#) (in R core).



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

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- ▶ works on any OS.

`multicore` (Simon Urbanek)

- ▶ works for Mac/Unix/Linux OS (not Windows);
- ▶ designed for multi CPU/core single computers with shared memory;
- ▶ main functions: `mclapply`, `mcmapply` and `mcMap`.

# R Core package **parallel**

Package **parallel** contains implementations of two packages:

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In this tutorial we will focus on the **snow** part of **parallel**.