Guide to the **pbdPROF** Package

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Contents

Acknowledgement

Warning: This document is written to explain the main functions of **pbdPROF** (**?**), version 0.1-0. Every effort will be made to ensure future versions are consistent with these instructions, but features in later versions may not be explained in this document.

Information about the functionality of this package, and any changes in future versions can be found on website: "Programming with Big Data in R" at `http://r-pbd.org/`.

1   Introduction

The main features of **pbdPROF** are:

1. ...

1.1   System Requirements

pbdPROF requires an MPI installation and an MPI-using package, such as **pbdMPI** (**?**) or **Rmpi** (**?**). For information regarding how to install MPI or **pbdMPI**, please see the **pbdMPI** vignette (**?**) or the pbdR website `http://r-pbd.org/`.

2   Installation

2.1   fpmpi

2.2   mpiP

2.3   Test Script

Below we provide sample scripts to test that the installation of **pbdPROF** was successful. For **pbdMPI**, use:

<div align="center">Test script for pbdMPI</div>

```
library(pbdMPI)
init()

set.seed(comm.rank())
x <- allreduce(rnorm(100))

finalize()
```

and for **Rmpi**, use:

<div align="center">Test script for pbdMPI</div>

```
library(Rmpi)

# ...
```

3   FAQ