



<http://www.hpcs.cs.tsukuba.ac.jp/project/crest-ppfs/en/>

Distributed File System

The diagram illustrates the DAD (Data Access and Distribution) architecture. It shows a **DAD Network** connecting multiple **node**s. A **Node Chosen based on Score** is selected to execute a **Task** (file). The task is replicated frequently, with one copy stored in the **DAD Network** and others replicated to **node**s. The **node** contains a **Task** (file) and a **file** (data). The **node** is connected to a **RG** (Resource Group) which also contains a **Task** (file) and a **file** (data). The **RG** is connected to the **DAD Network**.

Below the diagram are two bar charts comparing execution time for 20 tasks and 40 tasks.

Ex. Time(sec) for 20 tasks

| Configuration | Ex. Time(sec) |
|---------------|---------------|
| Original | ~56 |
| DAD | ~2 |

Ex. Time(sec) for 40 tasks

| Configuration | Ex. Time(sec) |
|---------------|---------------|
| DAD only | ~42 |
| DAD + RG | ~24 |