

## CLOUD COMPUTING APPLICATIONS

Spark Example: Log Mining

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## Example: Log Mining

Load error messages from a log into memory, then interactively search for various patterns

```
lines = spark.textFile("hdfs://...")
errors = lines.filter(_.startsWith("ERROR"))
messages = errors.map(_.split('\t')(2))
cachedMsgs = messages.cache()

cachedMsgs.filter(_.contains("foo")).count
cachedMsgs.filter(_.contains("bar")).count
```

**Result:** scaled to 1 TB data in 5-7 sec (vs 170 sec for on-disk data)

