

Crunching Market Feed Data from 8-9 Hours to under 50 minutes



Mobile Pundits helped brain storm & bring us a solution which would work not just for now, but for the future as well. They proved themselves in their ability to deliver an innovative solution, on time, on budget and with the quality needed.



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CTO, Bullrun Financial

Client Business Description

- ◇ SaaS based Wealth Management Platform offering Portfolio & Wealth Management.

Background

- ◇ Bullrun's SaaS platform enables portfolio vs. benchmark monitoring and oversight, provides fingertip access to factors affecting equity portfolios and helps managing accounts, & view dynamic performance measurement & attribution analysis.

The product integrates market feed from multiple data sources

- ◇ including Reuters, Pershing, SunGard, IDC, Worldscope, IBES, FAME, Russell, and MSCI.

Challenge

- ◇ The current system had implementations in disjoint components like Cron-jobs, PL / SQL, Perl, etc. & manual supervision was needed during feed processing.
- ◇ Inability to monitor feed processing & to restart in case of failures. Inefficient DB designs caused dip in performance during market feed processing which took about 8-9 hours for completion.

Idea

- ◇ Reduce the feed processing times drastically from the current levels of 8-9 nightly hours. Revamp the DB structure and enable synchronizations for offline processing.
- ◇ Implement a Load Balancing mechanism to process market feeds efficiently with appropriate failsafe procedures & rollback mechanisms.

Our Solution

- ◇ Designed a failsafe & scalable Java based architecture to handle market feeds from multiple sources.
- ◇ Deployed a pair of 24*7 Scheduler to manage custom built Status Monitors & Load Balancers for scheduling & tracking feed processors.
- ◇ To enhance performance, Feed Processors were designed to use Staging DB for intermediary processing & synchronize with a Production DB.
- ◇ Brought down the feed processing times from current 8-9 hours to 40-50 minutes levels.

Technologies Used

- Java
- Spring / Hibernate
- Postgre SQL / Oracle
- TOAD, Rational Rose
- IzPack

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