



SMFV

Process On Mainframe, Visualize Anywhere

# Smart MainFrame Visualizer (SMFV)

*SMFV helps analyze SDSF data on Mainframe and visualize it on responsive, web dashboards on cloud*

[Demo Link](#)

[Know More](#)

**Context:** Mainframes batch processes **huge amounts** of data. SDSF has **wealth** of such batch information. Analyzing this may help in identifying **anomalies**, taking **proactive actions**, detecting **issues** early, monitor system **KPIs** and so on.

**Challenge:** **Analyze** and **visualize** this data in more **user-friendly** manner near **real time**

**Solution:** **Integrate** mainframe with the modern technologies.

**Mainframe:** Z/OS for heavy **processing**, capture of **SDSF** data

**Mainframe USS:** **Python** to interact with Mainframe, perform analysis, update stats DB

**Cloud DB:** **MySQL** on **Google cloud**

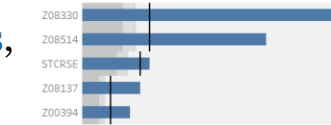
**Cloud, responsive dashboard:** **Tableau** based multi-device dashboard depicting various **KPIs**

**Benefits:** Rich **UI**, easy **programmability** and **extensibility**, efficient **processing**

**Roadmap:** Integrate with entire **SMF** data, beyond SDSF. Apply **ML** to provide **intelligent analytics**. Use trigger above to do **automation**.

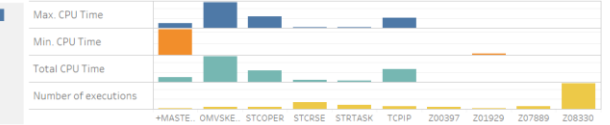
Automated SDSF Monitor

Top 5 Jobs Executions



Responsive, Web based dashboard

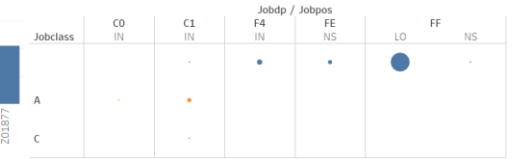
Top 10 CPU Consuming Jobs



Top 10 Resrouce Consuming Jobs



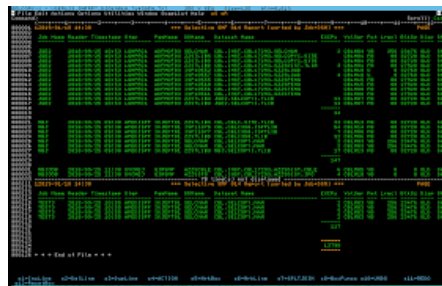
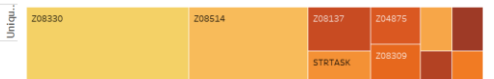
Job Class, Priority And Position Distribution



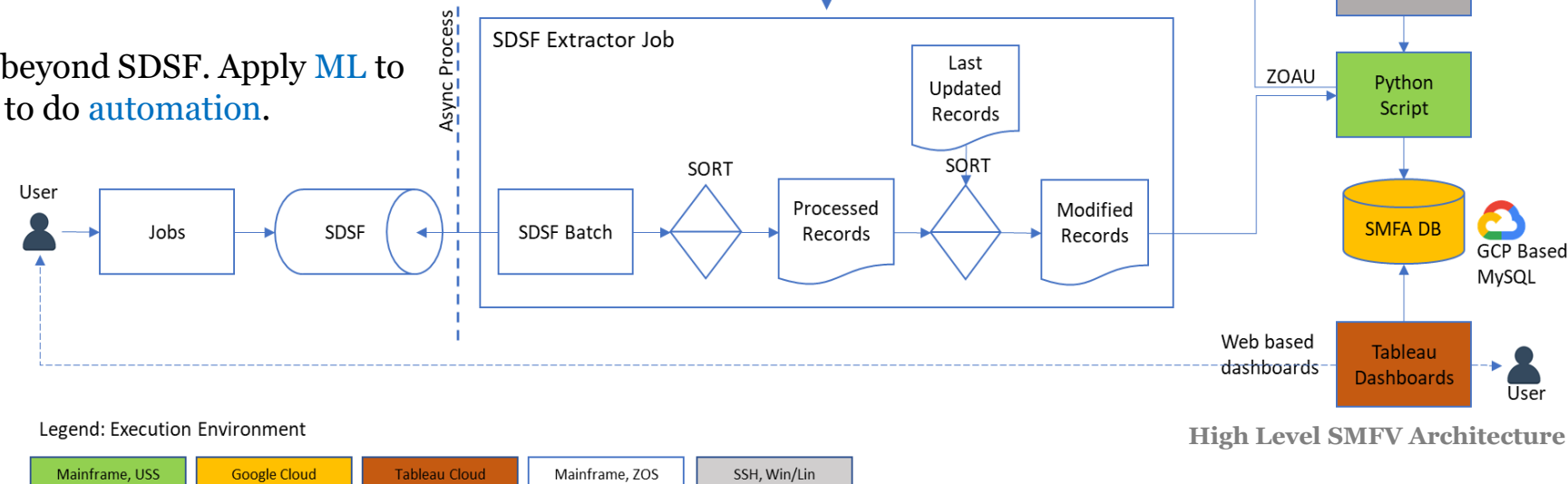
Timeline Wise Job Execution



Top 10 User By Resource Consumption



Mainframe User View



High Level SMFV Architecture