RElico LOADer (RELOAD) Data Entry API

History

The development of the PLSQL Data Entry API started with a client's request to write cumulate visit specific information in overview pages in an annex (Due to the old-fashioned paper habits medications and adverse events in cancer trials are often collected by cycle instead of collecting them in an annex). PLSQL procedures to create empty pages and to fill or update them were the result. A subsequent request to integrate with an IVRS system was addressed by the extension of the given PLSQL code.
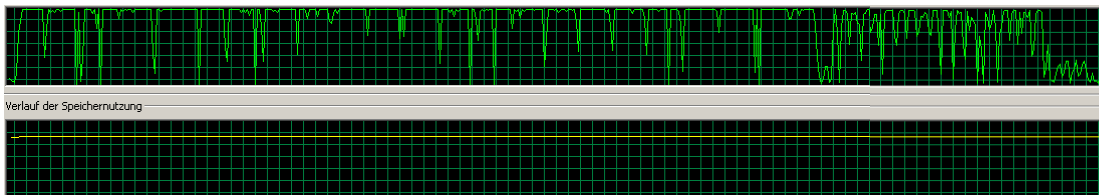
The result is a handy API that can be easily deployed by PLSQL procedure calls. A PLSQL programmer has to provide a batch data load format like PLSQL list of data points that are handed over to RELOAD. RELOAD applies them and takes care of inserts, updates, and deletes.

An in parallel developed interface to on-line load data from medical devices using the Oracle Clinical built-in batch loader provided the opportunity to do a performance comparison. Astonishingly the result was that RELOAD outperformed the Oracle Clinical batch loader by far. RELOAD reduced the disk I/O by 50% and CPU consumption by 75%.
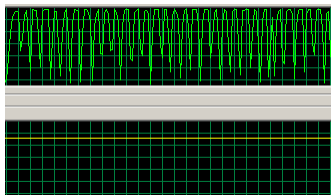
Performance

Find below the comparison for the same data to load on a 1 CPU Windows server with a normal disk:

Oracle Clinical Batch Loader

RELOAD

Below the comparison of the disk usage:

	Oracle Clinical Batch Loader	RELOAD
Reads	4915	1464
Writes	11886	7153
Sum	16801	8617
Execution time [sec]	455	135
IOPS	37	64

Conclusion

RELOAD performs much better than the original Oracle Clinical batch loader. Instead of investing into additional CPUs and more disks in the SAN the usage of RELOAD is a cost-effective alternative in environments with heavy batch data load activities.

A PLSQL Data Entry API like RELOAD is easier to use in an Oracle Clinical environment than a C++ application server based API like the original Oracle Clinical data entry API. Due to the fact that Oracle is very good in keeping compatibility between the different PLSQL versions no recompilation is required. In contrast the Oracle Clinical data entry API requires a recompilation of the C++ code whenever the C++ version with which the Oracle Clinical Forms Exits are built changes.

The RELICO Design API and RELOAD are good base layer for the integration of Oracle Clinical with other systems, e.g. with Siebel Clinical, IVRS, medical devices, ePROs.

Current Customer Basis

- 1 Israeli pharmaceutical companies
- 1 Large international CRO

Availability for Oracle Clinical Versions

- OC 4.5.n
- OC 4.6.n

Pricing

- €500 per Oracle Clinical user
- €100 per Oracle Clinical user annual maintenance and support fee
- customisation and implementation on a time and material basis

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