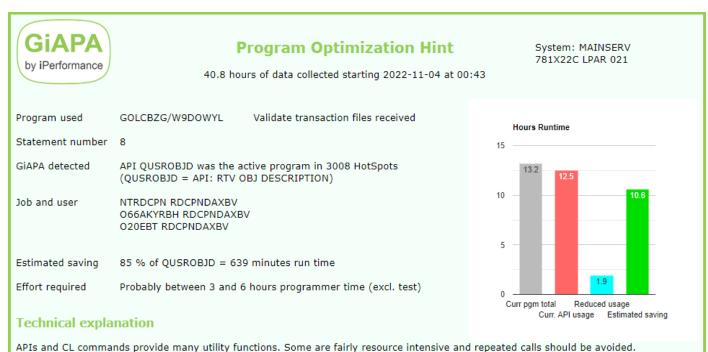
GiAPA's performance analysis locates +/- 80 % of all commonly seen inefficiencies, normally also many in old applications believed to run OK, because no-one ever before analyzed all active jobs

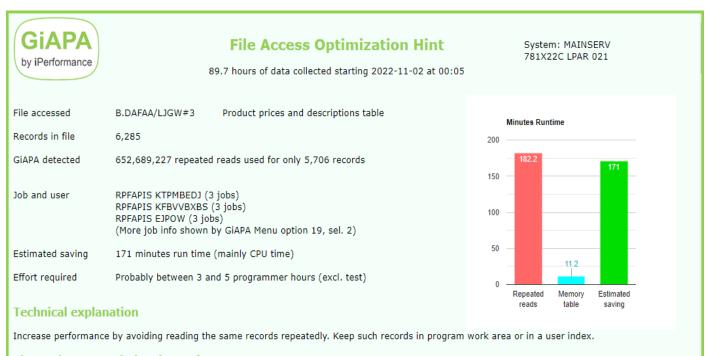
Automatically generated optimization tips based on analysis of all active programs



Tips on how to optimize the performance

It is quite uncommon to see this API or CPP appear as the active program in several GiAPA HotSpots. We recommend investigating whether the call to this function is placed within a loop and accordingly executed e.g. once per record instead of only once in the beginning of the job. Many APIs/CPPs are fairly resource intensive since collection of the requested information requires accessing many objects. If called frequently it might improve performance to test if the API/CPP call parameters are unchanged compared to the previous call, and if so simply reuse the result. Another option is storing the parameters and results in an array so repeated calls can be replaced by a binary table look-up.

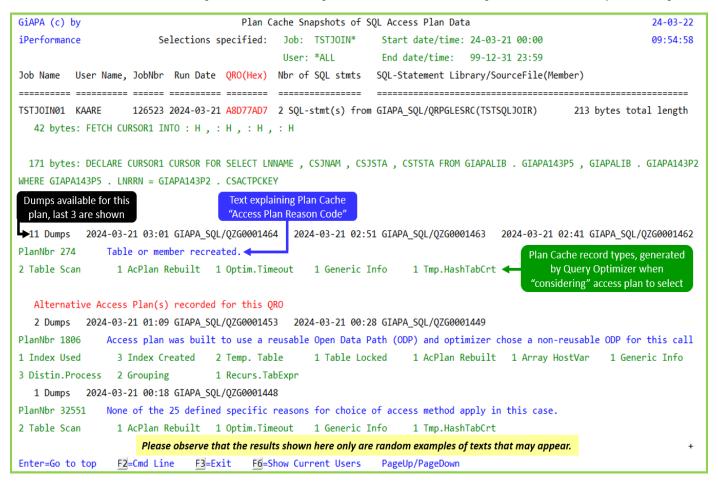
Analyzing file accesses across all jobs reveals significant savings, easy to implement



Tips on how to optimize the performance

Some tables/files with relatively few rows/records are used very heavily by several applications reading rows/records for each transactions processed. It is not uncommon to see records/rows being read more than a thousand times each by a job. Although the operating system automatically holds frequently used data in the main storage, quite some overhead remains connected with each access. Reading such records/rows into a program internal array and replacing the read with a binary lookup can provide significant CPU savings. An efficient alternativ is a user index, which also is a permanent object that can be saved. If only very few records are accessed, a simple test may be the solution: skip the reading if the record happens to be the last accessed.

SQL Plan Cache data for jobs selected by user is automatically collected and pre-analyzed



✓ Shows location of snapshots needed for analysis using IBM's SQL Performance Center



Current user names are valuable information when analyzing data base host server jobs

GiAPA has much more to offer - please watch our five minute video, technical presentation, references, and examples at www.giapa.com.

Standard or user defined graphs can be generated and emailed in night batch jobs

