

Runtime Infrastructure - Feature #4027

optimize multiple PUT statements by deferring call to client until EOL or EOF

04/01/2019 09:58 PM - Eric Faulhaber

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		version:	
billable:	No		
vendor_id:	GCD		
Description			

History

#1 - 04/01/2019 10:06 PM - Eric Faulhaber

Many PUT statements called in rapid succession, such as for report rendering, can produce a performance bottleneck. Each statement causes a round trip to the client, including all of the DAP overhead (marshalling, unmarshalling, etc.) associated with this on both sides.

We should be able to recognize certain idioms (possibly with the help of hints?) to allow us to reduce this traffic. For instance, in a report-writing scenario, where multiple PUT statements are used to compose a line in the report, we should combine multiple payloads into a single message which is sent only when an EOL or EOF marker is encountered. If it is possible to make this communication even coarser (again, maybe through hints) to reduce this back and forth further, even better.