Zackery Sobin

From:	Larry Combs <larry.combs@aveva.com>
Sent:	Friday, February 21, 2025 12:40 PM
To:	Zackery Sobin
Cc:	Matthew Fletcher
Subject:	RE: Question about UDrvCompareAddress Sorting

Hi Zackery,

We always sort the Main Driver Sheet at startup. We can add an option to the driver INI file in a future release to allow the driver to control whether or not sorting is required, but there is no way to avoid this in the current release. One option is to encourage your users to use what we call Standard Driver Sheets (SDS). Creating a SDS sheet effectively creates a group in whatever order the user creates the sheet and does not call UDrvCompareAddress or UDrvGetHeaderAddress.

Larry

General

From: Zackery Sobin <Zackery.Sobin@se.com>
Sent: Thursday, February 20, 2025 9:06 PM
To: Larry Combs <larry.combs@aveva.com>
Cc: Matthew Fletcher <matthew.fletcher@se.com>
Subject: Question about UDrvCompareAddress Sorting

CAUTION - This message originated outside AVEVA

Hello Larry,

I've noticed on EROE projects with large numbers of points, IoTView spends a couple minutes calling Spacks's UDrvCompareAddress during startup. I suspect IoTView wants to put the tags in order so that drivers like Modbus can efficiently do block reads.

Since the sorting delay can be annoying, it would be amazing if this could be eliminated. With Our Redis API, the tag order of block reads is irrelevant.

Do you know if there is a way the sorting can be disabled?

Thanks

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root@scadapack-47xi:/tmp# cat ./spack1.dbg
20250221_02:04:19.499              Function int UDrvOpenExt2(HWND, LPCTSTR, CHAR*, int*) started.
20250221_02:04:19.503                Function void GetRedisConnectionAndPoolOptions(sw::redis::ConnectionOptions&, sw
20250221_02:04:19.504                  Function bool readFileIntoString(std::string&, const string&) started.
20250221_02:04:19.535                  Function bool readFileIntoString(std::string&, const string&) ended.
20250221_02:04:19.536                Function void GetRedisConnectionAndPoolOptions(sw::redis::ConnectionOptions&, sw
20250221_02:04:19.536                Function CRedisOdbCache::CRedisOdbCache() started.
20250221_02:04:19.536                Function CRedisOdbCache::CRedisOdbCache() ended.
20250221_02:04:19.537                Function bool CRedisOdbCache::Initialise(sw::redis::Redis*) started.
20250221_02:04:19.537                  Function void CRedisOdbCache::initializeOdbMetadataMap() started.
20250221_02:04:19.537                  Function void CRedisOdbCache::initializeOdbMetadataMap() ended.
20250221_02:04:19.537                  Function bool CRedisOdbCache::checkConfiguration() started.
20250221_02:04:19.537                    Function bool CRedisOdbCache::getConfigurationState(configuratio
20250221_02:04:19.540                    Function bool CRedisOdbCache::getConfigurationState(configuratio
20250221_02:04:19.541                    Function bool CRedisOdbCache::readHashFromRedis(const string&, s
20250221_02:04:19.670                    Function bool CRedisOdbCache::readHashFromRedis(const string&, s
20250221_02:04:19.670                    Function bool CRedisOdbCache::readHashFromRedis(const string&, s
20250221_02:04:19.740                    Function bool CRedisOdbCache::readHashFromRedis(const string&, s
20250221_02:04:19.741                  Function bool CRedisOdbCache::checkConfiguration() ended.
20250221_02:04:19.741                Function bool CRedisOdbCache::Initialise(sw::redis::Redis*) ended.
20250221_02:04:19.743              Function int UDrvOpenExt2(HWND, LPCTSTR, CHAR*, int*) ended.
20250221_02:04:19.777            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.778            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
20250221_02:04:19.778            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.778            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
20250221_02:04:19.778            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.779            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
20250221_02:04:19.779            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.779            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
20250221_02:04:19.779            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.779            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
20250221_02:04:19.779            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.780            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
20250221_02:04:19.780            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) started.
20250221_02:04:19.780            Function int UDrvCompareAddress(LPCTSTR, LPCTSTR, LPCTSTR, LPCTSTR) ended.
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General