XINA Struct Mine

The XINA Struct Mine utility processes archive files to produce data products for import into XINA. It is primarily intended to be run as part of the XINA Structs data pipeline's Mining Task. There are 2 suppported archive file formats: `xbin` and `xpf`. If the archive file is in the `xpf` format, processing is delegated to a mission specific tool. See the Struct Extract Interface that describes the interface the tool shall implement.

Arguments

Name	Req	Description	Default
task	?	task ID	
conf	?	JSON conf file path	
temp	?	temp directory path	
import	?	import directory path (for file outputs)	
post	?	post directory path (for post-import outputs)	
host		tunnel host	`"localhost"`
port		tunnel port	`41746`

Configuration

Name	Req	Description	Default
pipe	?	pipe group path, or model path if no pipe	
t	?	start time of archive to mine. Can be specified as either a numeric microseconds since unix epoch or an ISO8601 string such as "2025-02-17T00:00:00Z"	
use_pkt_time		If true, use packet time when extracting data. Only applicable for projects that support both ground and packet time.	false
pkt		**Deprecated** alias for `use_pkt_time`	
write_unbinned		If true, write the unbinned (aka delta/full) data files and import actions.	true

Name	Req	Description	Default
write_binned_secs		Array of binned db seconds to write and import. An empty array will not write any binned data. Not including the key will write all binned data. Example: `[60]` will write only the 60 second binned data.	All binned data will be written and imported

Operation

This utility serves a few main functions:

- Extract data from archive files to produce import products such as:
  - Full mnemonic data
  - Delta mnemonic data
  - Time and Interval bin data
  - Filtered mnemonic data
  - Events (Actions?)
  - Limit Report
  - Metrics
  - Mission Specific Data

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