

XINA Struct Export

This page is a Work In Progress

The XINA Struct Export utility processes archive files to produce data products for XINA's Export Tasks. There are 2 supported 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 must 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

JSON Configuration

Name	Req	Description	Default
origin	?	origin group	
slice		TBD REMOVE slice length in minutes	60
t		TBD REMOVE slice time barrier (see below)	
start	?	Start time of data to export	
end	?	End time of data to export	
raw		Mnemonic IDs to export with no conversion	
eng		Mnemonic IDs to export with engineering conversion	
sci		Mnemonic IDs to export with science conversion	

Name	Req	Description	Default
dis		Mnemonic IDs to export with discrete labels conversion	
event_uuid		Event UUID for interval that the export was requested for. The event's start and end time will be used instead of <code>start</code> and <code>end</code> .	
join		If <code>true</code> , the mnemonic data will be "joined" such that there will be a mnemonic per column and one timestamp per row	
fill		If <code>true</code> , empty cells will be filled with the previous value. Only applicable when <code>join</code> is <code>true</code> .	
columns		Defines the columns that will be output e.g. various timestamp formats, units	
plot		The plot configuration used to generate the plot PDFs	
filter		The filter definitions to apply. Can either be a list of filter IDs or filter expressions. Exact format TBD.	
disable_filter		If <code>true</code> , does not apply the filters	
multi		TBD REMOVE Has extract process all archives at once. This was added for performance reasons since loading the mnem def is slow.	
grt		If <code>true</code> , and the model supports it, use ground receipt time instead of packet time	
label		The text that will be used to name the files and final zip file.	
batch		TBD REMOVE	
copy		TBD REMOVE	
profile		The name of the profile.	

Operation

Extract data from archive files to produce Export Task products:

- Full resolution mnemonic data with a configurable format
- Mnemonic Statistics
- Configurable Plots of data
- Limit Report
- Events

Revision #5

Created 14 May 2024 19:31:51 by Bradley Tse

Updated 23 May 2024 16:07:47 by Bradley Tse