OpenCPI XML Attributes and Elements

Atttribute	Data	Eleme	nts that ca	n be top le	evel in a file									Elements for				
	Туре	Elements that can be top level in a file (bold), and any other files the element may appear in.						Elements not at the top level of a file					Element	ts for Wor	kers Only	OAS/OHAD		
FileType and		OPS,			OWD													
Element		ocs,		ocs, owd	{RCC,HDL}-					OPS,OPD,	OPD, OCS,	ocs,	OWD	HDL OWD	HDL OWD	OAS,		OAS,
(bold is most		OWD	OPD	Component-	Worker,	OHAD	OAS	OPS	OPS	OCS,OWD	OWD	OWD	Spec-	Stream-	Time-	OHAD	OAS, OHAD	OHAD
common)		Protocol	Properties	Spec	HDLDevice	HdlAssembly	Application	Operation	Argument	Member	Property	Port	Property	Interface	Interface	Instance	Connnection	External
Name	string	o		0	o	o	o	0	r	r	r	r	r	r	0	o	o	0
Property, Argument, a	and Member	attribute	s, allowed in	OCS and OV	VD for proper	ties, and in OF	S for argum	ents.	•					•			•	
Type*	enum								0	0	0							
ArrayLength**	unsigned								0	0	0							
ArrayDimensions**	unsigned list								0	0	0							
SequenceLength**	unsigned								0	0	0							
											o (under							
Default	string									Property)								
										o (under	o (under							
	boolean									Property)	Property)							
Attributes for specific	data types																	
	unsigned										0							
	string list								0	0	0					<u> </u>		
Accessability attribute		ies																
	boolean										0		0					
Volatile	boolean										0		0					
Initial	boolean										0		0					
Writable	boolean										0		0					
	boolean										o (OWD)							
Worker Property Attri									1					1				
Readsync	boolean										o (OWD)		0					
_	boolean										o (OWD)		0					
	boolean										o (OWD)		0					
	boolean	L			L			<u> </u>	L		o (OWD)		0					
Protocol Summary Att		are used i	in the absen	ce of, or to o	verride, value	s implied by t	he operation	s of a proto	col			_		1			Т	
NumberOfOpcodes	unsigned	0										0		0				
	unsigned	0										0		0				
	unsigned	0										0		0				
ZeroLengthMessages MaxMessageValues	boolean	-										0		0				
DiverseDataSizes	unsigned boolean	-										0		0				
	boolean	0										0		0				
Port Attributes	boolean	ν						<u> </u>				Į o	I	Į u		I		1
	boolean				1	Ι	Ι	ı —	Ι			o (OCS)	1	Ι	Г		1	Т
Optional	boolean											o (OCS)						
MinBufferCount	unsigned											o (RCC)						
	string											o (OCS)						
Worker Attributes								•				, , , , , , , ,	•					-
																		T
ControlOperations	string list				0							1						
Endian****	enum				0													
Spec	string				0							1						
	string				0													
Datawidth (HDL only)	ŭ				0											Ī		
Stream Interface Attri	ibutes																	•
precisebursts	boolean													О				
abortable	boolean													o				
clock	string													o				
	boolean													0				
	unsigned													o				
Time Interface Attribu																		
	unsigned														0			
															0			

OpenCPI XML Attributes and Elements

Atttribute	Data	Elements that can be top level in a file (bold), and any other files the element may appear in.							Elements not at the top level of a file							Elements for OAS/OHAD		
Name	Туре													ts for Wor	kers Only			
FileType and		OPS,			OWD													
Element		OCS,		ocs, owd	{RCC,HDL}-					OPS,OPD,	OPD, OCS,	ocs,	OWD	HDL OWD	HDL OWD	OAS,		OAS,
(bold is most		OWD	OPD	Component-	Worker,	OHAD	OAS	OPS	OPS	ocs,owd	OWD	OWD	Spec-	Stream-	Time-	OHAD	OAS, OHAD	OHAD
common)		Protocol	Properties	Spec	HDLDevice	HdlAssembly	Application	Operation	Argument	Member	Property	Port	Property	Interface	Interface	Instance	Connnection	External
Assembly Attributes	in Various Elei	nents in /	Assemblies		•					•								
Package						О	О											
Done							o											
Component																r (OAS)		
Worker																r (OHAD)		
Value											o (OAS,OH	AD)						
ValueFile											o (OAS)							
DumpFile											o (OAS)							
Connect																o		
From																o		
То																0		
Port																		0
Instance												o (OAS/	OHAD)					0
Child Elements and V	Vhich Parent E	lements	They May B	e Under														
Protocol												О						
ComponentSpec					0													
Operation		0																
Argument								0										
Member (of struct)									0	0	0							
Property				0	0		o									0		
Port				0	0												О	
SpecProperty					0													
StreamInterface					o (HDL)													
TimeInterface					o (HDL)													
Clock					o (HDL)													
Instance						o	0				o (OAS,OH	AD)						
Connection						o	0											
External						o	0										o	
Enumerations and Fo	otnotes																	
*Type						ng, Float, Doub	ole, Boolean,	String										
**Expressions	These numer	rical values may also be expressions using parameters																
***Language	C or C++ for	RCC, VHDL or Verilog for HDL																
****Endian	Neutral, Littl	e, Big, Sta	tic, Dynamic	с														