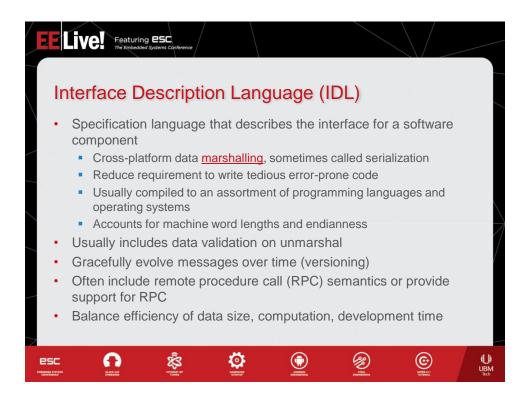
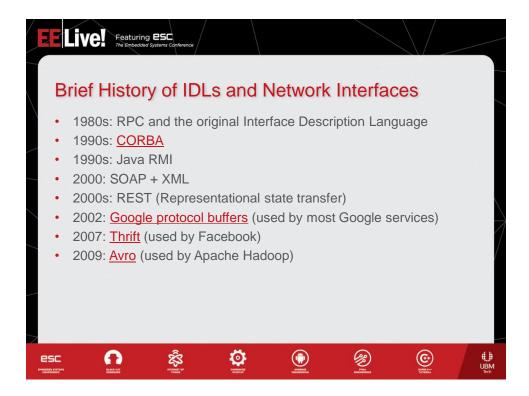
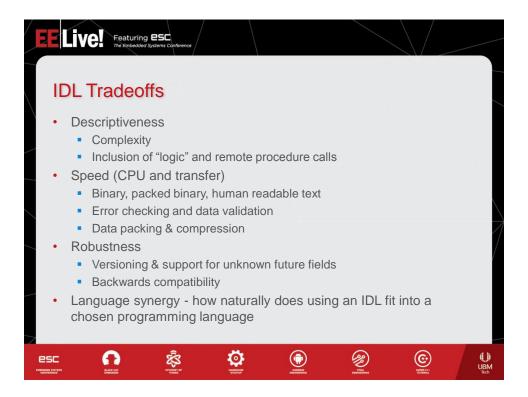
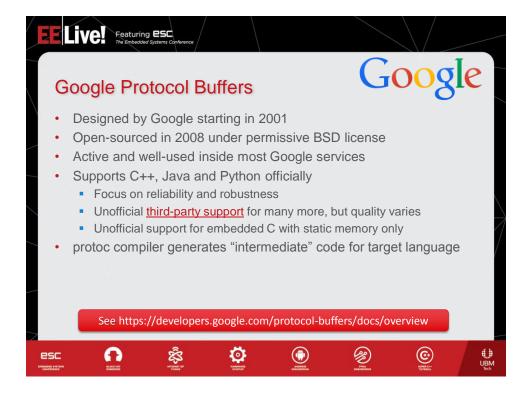


EEI	Featuring ESC The Embedded Systems Conferen	DCC			
CI	ient-Server Me	essaging E	Example		
	lssue Request	1 Marshal	2 Unmarshal	Wait for request	
	Client	4		and then handle	
	Handle Response	Unmarshal	3 Marshal	Reply	
7					
			Anne Anne Anne Anne Anne Anne Anne Anne	Production Constraints	UBM Tech

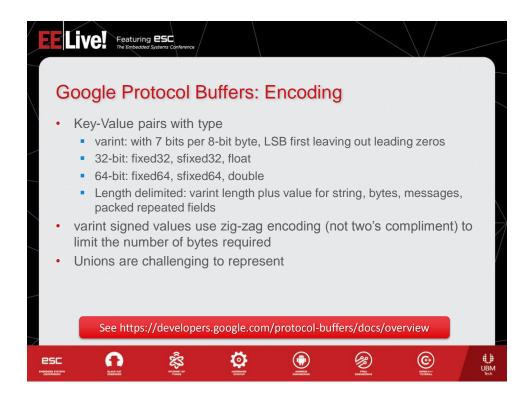


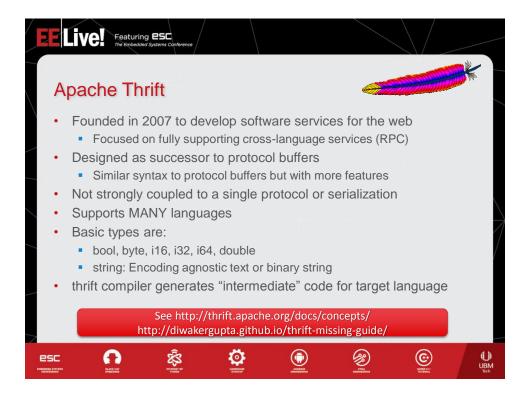


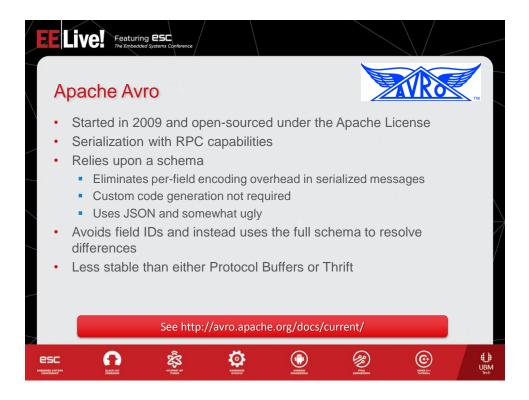




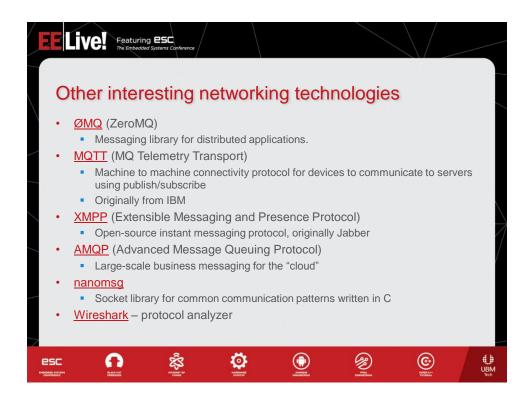
<b>EE</b> Live	Featuring The Embedded	g <b>ESC</b> d Systems Conference					
Goog	gle Pro	otocol B	uffers		G	008	le
mess	sage Perso	<b>n</b> {					
	-	string name					
	-	int32 id =					
	-	string emai	<b>1</b> = 3;				
	enum Phon						
		E = 0;					
	HOME WORK						
	WORK	= 2;					
		honeNumber	1				
	-	red string					
	_	-		2 [ <b>default</b> =	HOME1;		
	}						
	repeated	PhoneNumber	phone = 4	:			
}							
	See https:	//developers	s.google.com	i/protocol-bu	ffers/docs/ov	verview	
esc		r k	<b>Q</b>		(P)	( <del>c</del> )	
EMBEDGED SYSTEMS CONFORENCE	BLACK HAT EMBEDIED	INTERNET OF	HARDWARE STATUP	ANDROID ENGINEERING	ENGINEERING	SUPER C++ TUTOBIAL	UBM Tech

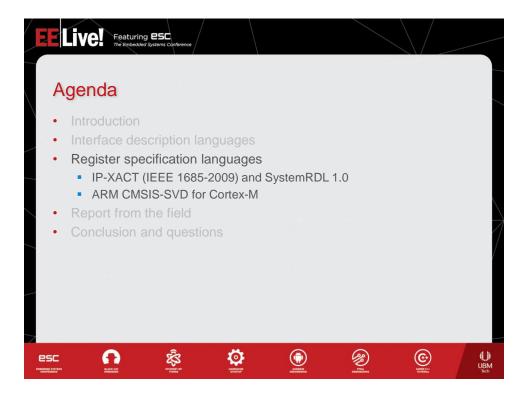


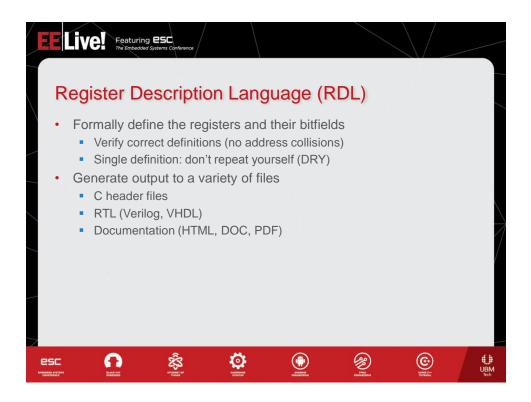




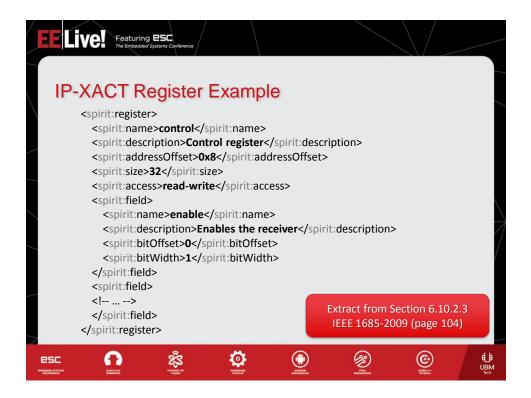
Comparison	of IDLs		
Parameter	Protocol Buffers	Thrift	Avro
Serialization	$\checkmark$	Multiple options	$\checkmark$
Binary format	$\checkmark$	$\checkmark$	$\checkmark$
RPC	_*	$\checkmark$	$\checkmark$
Schema	-	-	$\checkmark$
Enumerations	$\checkmark$	$\checkmark$	$\checkmark$
Constants	-	$\checkmark$	-
Containers	-	List, set, map	Array, Map
License	BSD	Apache	Apache
Language support	3 (officially)	15+	4
Suitability for microcontrollers	Good**	Poor	Poor

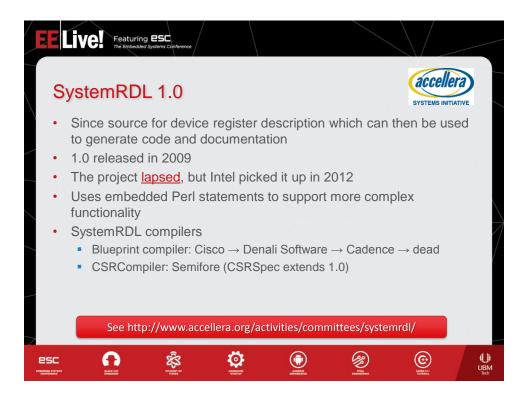












EE	Live! Featuring ESC The Empoded Systems Conference	
E	Basic SystemRDL Register Example	
	addrmap my_component {	
	reg {	
	<pre>name = "HelloWorld";</pre>	
	<pre>desc = "A register example.";</pre>	
	<pre>regwidth = 16;</pre>	
	field {	
	<pre>name = "Hello";</pre>	
	<pre>hw = rw; sw = r;</pre>	$\langle \rangle$
	<pre>fieldwidth = 8;</pre>	1
	} <b>Hello</b> [15:8] = 42;	
	field {	
	<pre>name = "World";</pre>	
	hw = rw; sw = rw;	
	<pre>fieldwidth = 8;</pre>	
	} World [7:0] = 21;	
	} MY_COMPONENT_HELLO_WORLD; // @0x00	
	};	
esc		Û
EMBEDDED SYSTEM	BLACE NUT INTERNIT OF RAZIMANE ANDRED PRA SUME CV- DMEDAUD TUMMS DAMENDA DAMENDA DAMENDA DAMENDA TUMBKA.	Tech

