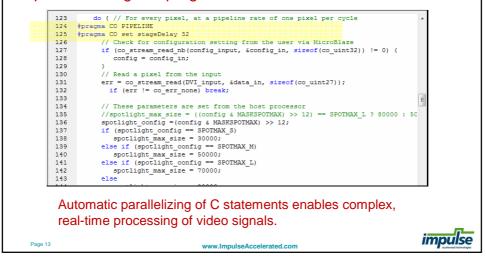
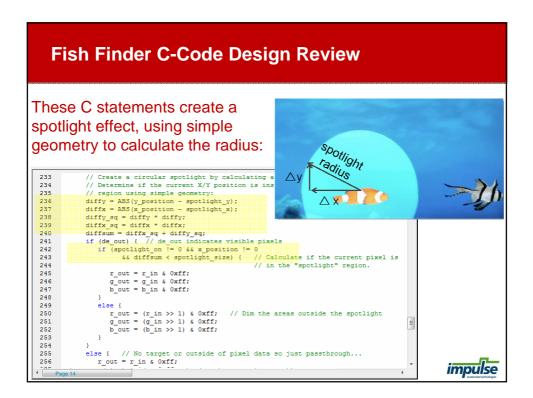


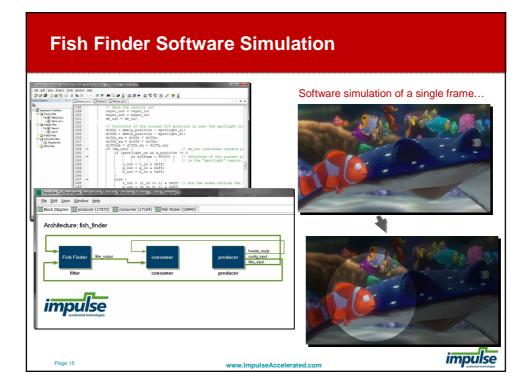
Fish Finder C	-Code Design Review
• • • • • • • • • • • • • • • • • • •	deo is represented data (24-bits of color, d de):
Unpacking a 27-bit video	pixel and looking for start-of-frame
	26) & 1; 25) & 1; & 1; & 0xff;
Packing and writing a filtered pixel	<pre>260</pre>
Page 12	www.ImpulseAccelerated.com

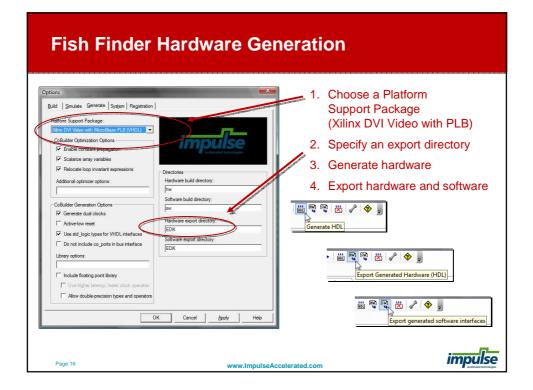


Loop pipelining and pipeline stage depth are easily specified using two pragmas in the C code...



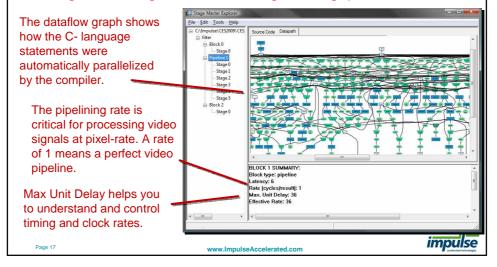


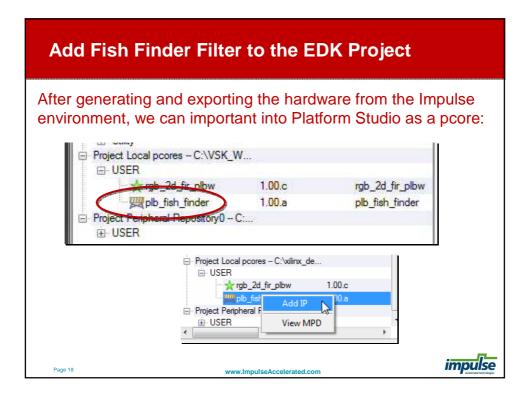


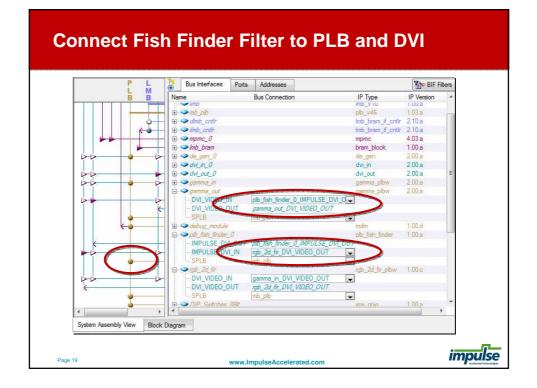


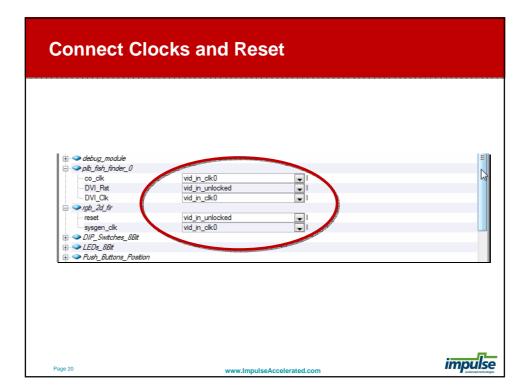
Fish Finder Hardware Optimization

Interactive pipeline optimization and analysis helps to quickly converge on the right solution for high-throughput video:









B	Bus Interfaces	Ports	Addresses				Constant I	Generate Addresse
Instanc	ice	Name	*	Base Address	High Address	Size	Bus Interface(s)	Das-connecti
lebug	module	C BASE	ADDR	0x84400000	0x8440ffff	64K	SPLB	mb plb
plb_fish_finder_0 C_BASEADDR		0xc5e00000	Oxc5e0ffff	64K	✓ SPLB	mb_plb		
nb_plb		C_BASE	ADDR			U	▼ Not Applicable	
gb 2d	l fir	C BASE	ADDR	Oxc:0600000	Oxc060ffff	64K	SPLB	mb plb
nb_plb	5	C_BASE	ADDR			U	 Not Applicable 	
ab 2d	1 fir	C BASE	ADDR	0xc0600000	UxcU60mm	64K	I.♥ SPLB	mb plb
		Note	e: address	es generated	l may be diffe	rent tha	n shown abov	'e

