

Embedded Software Essentials

Introduction to Software Configuration Management

C1 M1 V5

SCM



SCM

- Developing software can require a lot of process
 - Software Requirements
 - Environment Information
 - Software Build and Release
 - Software Review
 - Version Control
 - Testing
 - Support
 - Documentation
 - Defect Tracking
 - Task Management



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**Used directly by
software
engineers in
development**



**Used to help
organize and
support software
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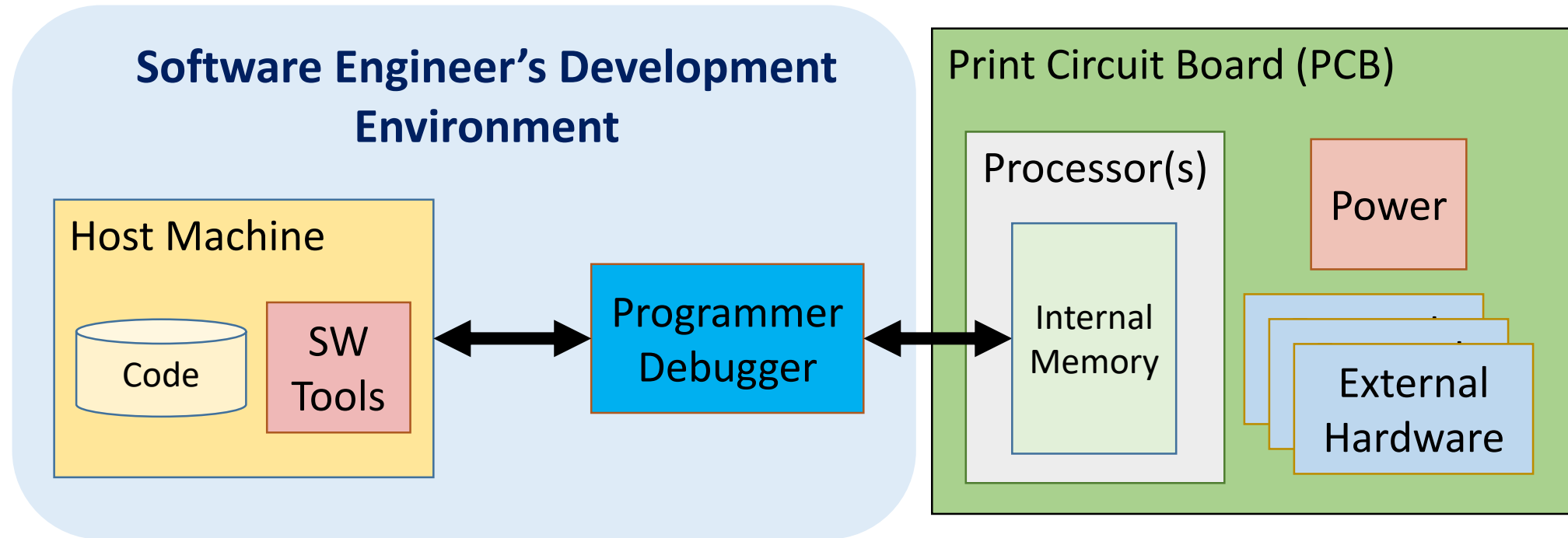


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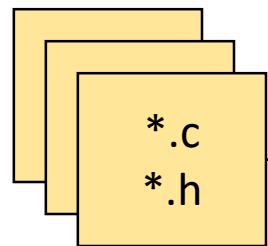
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Embedded System Development Platform

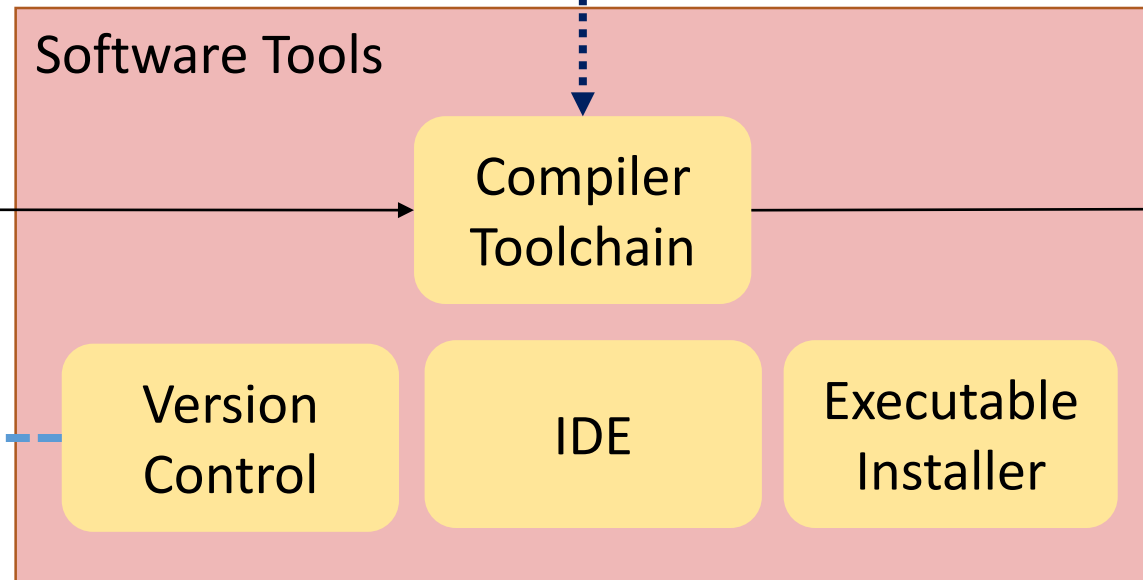


Software Tools

Source Files mostly
in High Level
Languages



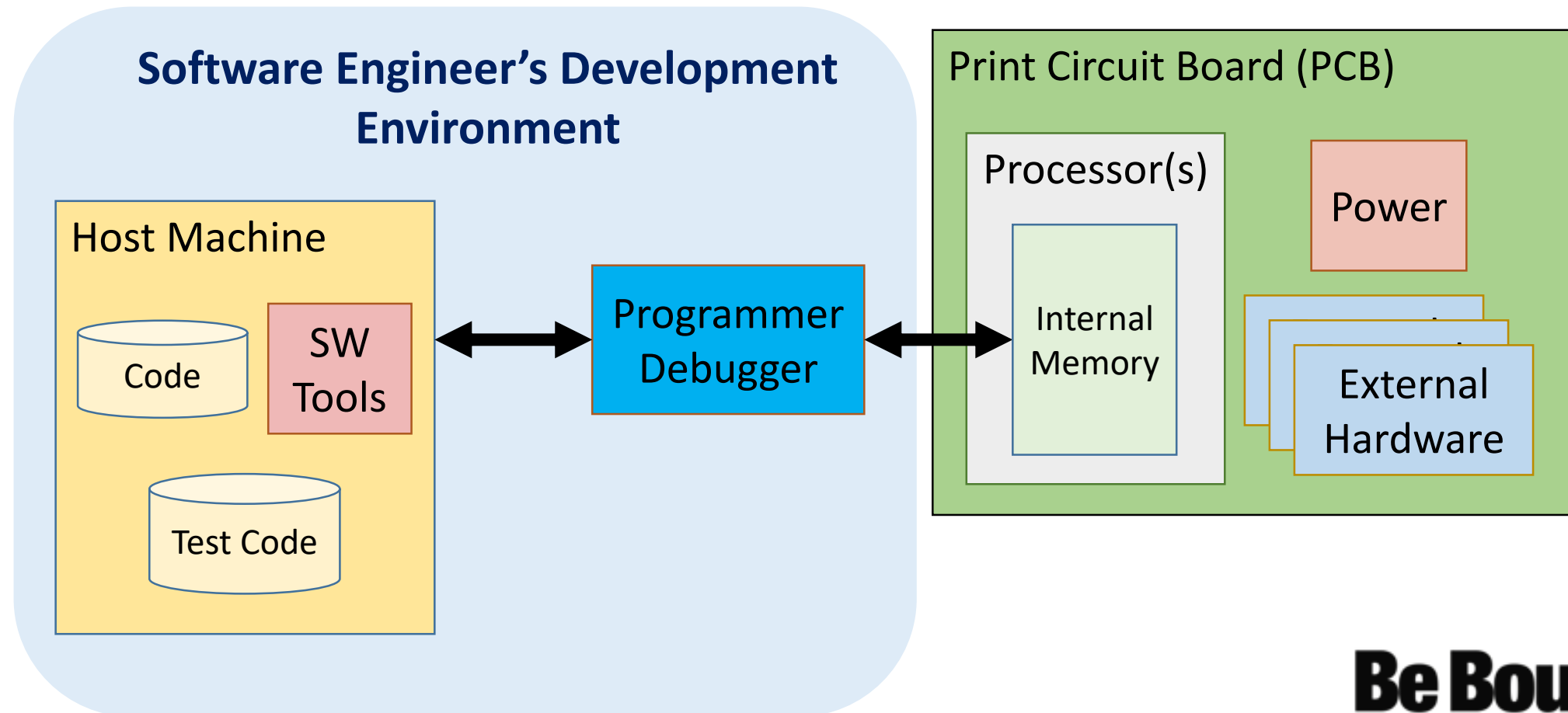
Build Tools







Architecture Specific
Machine Code



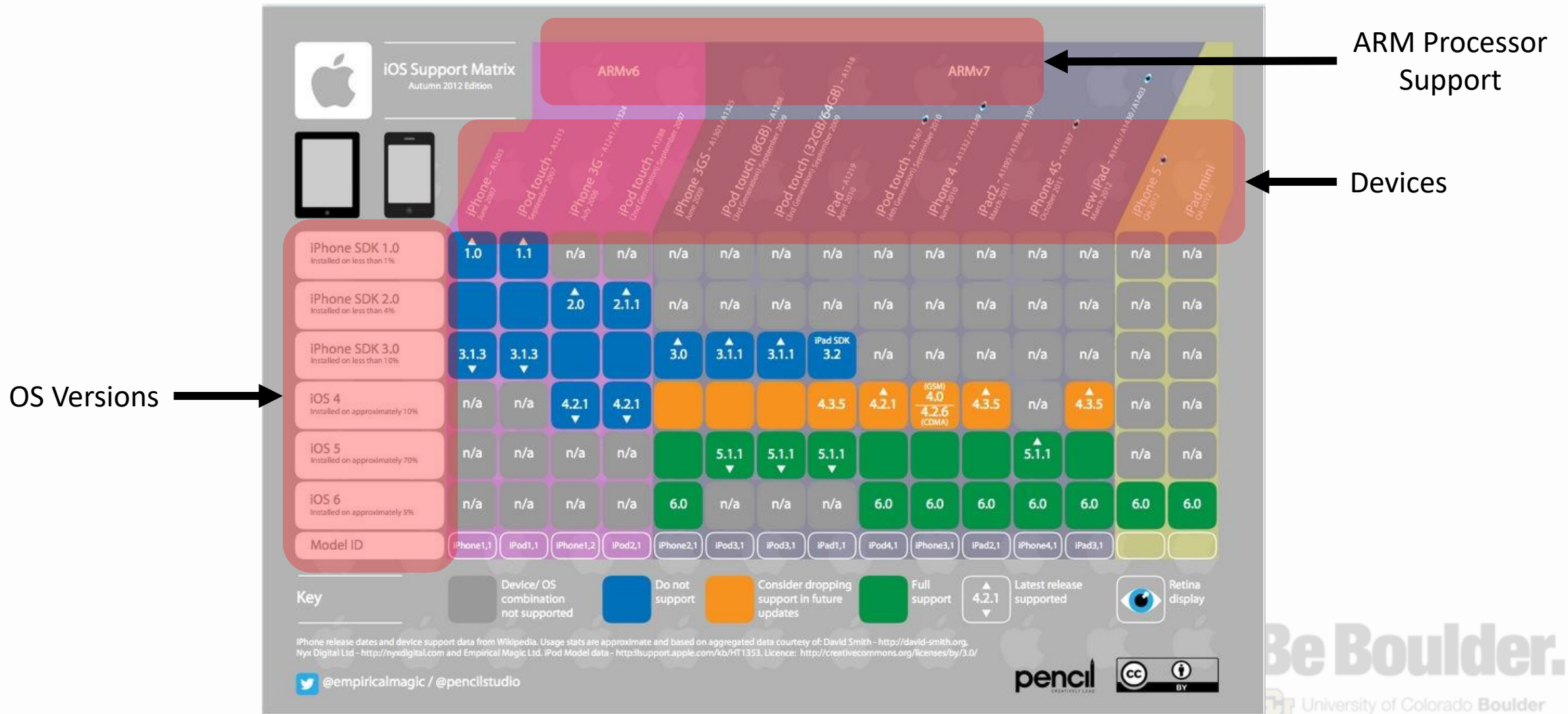
Embedded System Development Platform



Software Support

 iOS Support Matrix Autumn 2012 Edition		ARMv6				ARMv7									
		iPhone - A1303 June 2007	iPod touch - A1313 September 2007	iPhone 3G - A1321 / A1324 July 2008	iPod touch - A1328 2nd Generation, September 2007	iPhone 3GS - A1303 / A1325 June 2009	iPod touch (8GB) - A1328 2nd Generation, September 2009	iPod touch (32GB/64GB) - A1318 April 2010	iPod touch - A1307 4th Generation, September 2010	iPhone 4 - A1332 / A1349 June 2010	iPad2 - A1395 / A1396 / A1397 March 2011	iPhone 4S - A1488 October 2011	new iPad - A1416 / A1430 / A1403 March 2012	iPhone 5 - A1429 September 2012	iPad mini September 2012
iPhone SDK 1.0 <small>Installed on less than 1%</small>		1.0	1.1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
iPhone SDK 2.0 <small>Installed on less than 4%</small>				2.0	2.1.1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
iPhone SDK 3.0 <small>Installed on less than 10%</small>		3.1.3	3.1.3			3.0	3.1.1	3.1.1	iPad SDK 3.2	n/a	n/a	n/a	n/a	n/a	n/a
iOS 4 <small>Installed on approximately 10%</small>		n/a	n/a	4.2.1	4.2.1			4.3.5	4.2.1	(GSM) 4.0 (CDMA) 4.2.6	4.3.5	n/a	4.3.5	n/a	n/a
iOS 5 <small>Installed on approximately 70%</small>		n/a	n/a	n/a	n/a	5	5.1.1	5.1.1	5.1.1			5.1.1		n/a	n/a
iOS 6 <small>Installed on approximately 5%</small>		n/a	n/a	n/a	n/a	6.0	n/a	n/a	n/a	6.0	6.0	6.0	6.0	6.0	6.0
Model ID		iPhone1,1	iPod1,1	iPhone1,2	iPod2,1	iPhone2,1	iPod3,1	iPod3,1	iPad1,1	iPod4,1	iPhone3,1	iPad2,1	iPhone4,1	iPad3,1	
Key <div> <div>Device / OS combination not supported</div> <div>Do not support</div> <div>Consider dropping support in future updates</div> <div>Full support</div> <div>Latest release supported</div> <div>Retina display</div> </div>															
<small> iPhone release dates and device support data from Wikipedia. Usage stats are approximate and based on aggregated data courtesy of: David Smith - http://david-smith.org. Nyx Digital Ltd - http://nyxdigital.com and Empirical Magic Ltd. iPod Model data - http://support.apple.com/kb/HT1353. Licence: http://creativecommons.org/licenses/by/3.0/ </small>															
 @empiricalmagic / @pencilstudio															
															
															

Software Support



Legacy Systems

“Older Systems that may or may not be supported anymore”

Why Legacy?

- Software or hardware is outdated
- A loss of compatibility
- Parts not available
- Off company roadmap