Sheet1

ld	Est. Difficulty	Feature Name	Est. Time
1	Simple	AddressTaken Analysis	½ – 1 Week
2	Simple	Collection of addresses in program memory	Done
3	Medium	Analysis of the runtime linker (libld)	
4	Medium	CallTarget Analysis (I)	2 Weeks
5	Simple	Collection of CallTargets	Done
6	Medium	Identification of the expected parameter count	
7	Medium	Pathwise forward function CFG liveness analysis	
	Simple	Merging of Paths	
	Medium	Relative CallSite Analysis (I)	2 Weeks
10	Simple	Collection of relative CallSites	Done
11	Medium	Identification of the provided parameter count	
	Medium	Pathwise backward function CFG liveness analysis	
13	Simple	Merging of Paths	
14	Medium	Binary Patching	½ – 1 Week
	Medium	CallTarget tags	
	Simple	Tag-based CallSite vs CallTarget checks (generic!)	
	Simple	Scrambling unused register values (methodology!)	
	Simple	Verification: Dynainst vs Ground Truth (Ilvm)	1 Day
	Simple	Parameter count	
	Medium	CallTarget Analysis (II)	2 Weeks
1	Medium	Identification of the provided return type	
	Medium	type ::= provides does not provide	
	Medium	Relative CallSite Analysis (II)	2 Weeks
	Medium	Identification of the expected return type	
	Medium	type ::= expects does not expect	
	Simple	Verification: Dyninst vs Ground Truth (Ilvm)	1 Day
1	Simple	Return type (void non-void)	
	High	CallTarget Analysis (III)	4 Weeks
1	High	Identification of the expected parameter types	
	Medium	Dyninst-based analysis	
	Medium	SmartDec (based on IdaPro) based, see the TypeAnalyser.cpp	
	Medium	see Section TypeReconstruction (pg. 14) in SmartDec.pdf	
1	High	BAP-based analysis, this basically does the same but on BIL IR	4107 - 1 -
	High	Relative CallSite Analysis (III)	4 Weeks
1	High	Identification of the provided parameter types	
	Medium	Dyninst-based analysis	
1	Medium Medium	SmartDec (based on IdaPro) based, see the TypeAnalyser.cpp	
	High	see Section TypeReconstruction (pg. 14) in SmartDec.pdf BAP-based analysis, this basically does the same but on BIL IR	
	Simple	Verification: Dyninst vs BAP vs Ground Truth (Ilvm)	1 Day – 2 Days
	Simple	Parameter Type (int, float, pointer,)	Done Paul
	Simple	Return Type (void, int, float, pointer,)	see comment in .ods file
	Medium	AddressTaken Analysis (II)	1 – 2 Weeks
1	Medium	Vtable Identification	1 - 2 Weeks
	Medium	CallTarget Analysis (IV)	1 – 2 Weeks
	Medium	Identification of VcallTargets	I - Z WCCR3
1	Medium	Relative CallSite Analysis (IV)	1 – 2 Weeks
1	Medium	Identification of VcallSites	
1	Medium	Pattern-matching based approach	
1	Simple	Verification: Implementatin vs Ground Truth (Ilvm)	1 Day
	Simple	Vtable Identification, We will get also the code from Victor	
52		in June, I just have to send an email to him again,	
53		or we ask victor which exact versions of the servers he used (ID and date,	
54		and we use the same ones)	
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