

<https://github.com/PegaSysEng/eth2.0-dafny>

Data collected: 2020-05-12

Files	Folder	#LoC	Theorems	Implementations	Documentation	#Doc/#LoC (%)	Proved
BeaconChain.dfy	/src/dafny/beamcon	12	0	0	62	517	0
StateTransition.dfy	/src/dafny/beamcon	58	1	4	168	290	0
Validators.dfy	/src/dafny/beamcon	9	0	0	47	522	0
Math.dfy	/src/dafny/beamcon/helpers	93	6	1	22	24	0
MathHelper.dfy	/src/dafny/beamcon/helpers/helper_lemmas	652	20	0	11	2	20
div.r.dfy	/src/dafny/libraries/real	21	3	0	0	0	3
mul.r.dfy	/src/dafny/libraries/real	9	1	0	0	0	1
Merkleise.dfy	/src/dafny/merkle	257	9	17	148	58	26
BitListSeDes.dfy	/src/dafny/ssz	211	7	3	58	27	0
BoolSeDes.dfy	/src/dafny/ssz	18	0	2	3	17	2
BytesAndBits.dfy	/src/dafny/ssz	76	3	6	39	51	9
Constants.dfy	/src/dafny/ssz	79	0	0	22	28	0
IntSeDes.dfy	/src/dafny/ssz	20	1	2	4	20	3
Serialise.dfy	/src/dafny/ssz	123	3	4	26	21	7
DafTests.dfy	/src/dafny/utl	47	0	4	25	53	4
Eth2Types.dfy	/src/dafny/utl	74	5	0	46	62	5
Helpers.dfy	/src/dafny/utl	207	11	2	59	29	13
MathHelpers.dfy	/src/dafny/utl	133	6	2	19	14	8
NativeTypes.dfy	/src/dafny/utl	28	0	0	13	46	0
SeqHelpers.dfy	/src/dafny/utl	38	6	0	12	32	6
Merkleise.test.dfy	/test/dafny/merkle	23	0	1	10	43	0
BitListSeDes.tests.dfy	/test/dafny/ssz	14	0	1	7	50	1
MathHelpers.tests.dfy	/test/dafny/utl	13	0	1	17	131	1
TOTAL		2215	82	50	818	37	109

Folder	#Files	#LoC	Theorems	Implementations	Documentation	#Doc/#LoC (%)	Proved
/src/dafny/beamcon/helpers/helper_lemmas	5	824	27	5	310	38	20
/src/dafny/beamcon/helpers/helper_lemmas	2	745	26	1	33	4	20
/src/dafny/beamcon/helpers/helper_lemmas	1	652	20	0	11	2	20
/src/dafny/libraries/reals	2	30	4	0	0	0	4
/src/dafny/merkle	1	257	9	17	148	58	26
/src/dafny/ssz	6	527	14	17	152	29	21
/src/dafny/utlis	6	527	28	8	174	33	36
/test/dafny/merkle	1	23	0	1	10	43	0
/test/dafny/ssz	1	14	0	1	7	50	1
/test/dafny/utlis	1	13	0	1	17	131	1