

A. Anhang

A.I CLOC-Ausgaben der Codeanalyse von Emulatoren

DesMuMe v0.9.8

<http://cloc.sourceforge.net> v 1.56 T=109.0 s (41.9 files/s, 18432.5 lines/s)

Language	files	blank	comment	code
C++	1350	148155	103876	762319
C/C++ Header	2603	88660	115781	392419
C	377	46403	38509	234801
Objective C++	54	8286	3324	33798
Objective C	30	2593	1596	8550
Assembly	16	1424	919	7178
m4	23	823	602	4398
make	89	389	322	2714
HTML	2	53	29	722
Bourne Shell	14	50	91	230
Python	1	25	21	51
DOS Batch	9	0	0	26
Teamcenter def	1	0	0	4
CSS	1	0	0	1
SUM:	4570	296861	265070	1447211

TOTAL: 1712281

gnuBoy v1.0.3

<http://cloc.sourceforge.net> v 1.56 T=1.0 s (117.0 files/s, 28444.0 lines/s)

Language	files	blank	comment	code
C	67	2766	1378	12954
Bourne Shell	2	405	508	3420
Assembly	3	364	0	2641
C/C++ Header	43	635	622	2358
C++	1	56	44	190
make	1	28	24	51
SUM:	117	4254	2576	21614

TOTAL: 24190

BASILISK II v0.9.1

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (90.8 files/s, 39991.5 lines/s)

Language	files	blank	comment	code
C++	141	13426	12188	74776
C	38	2460	3909	14931

C/C++ Header	142	2762	4163	13397
m4	8	350	553	4642
Objective C++	9	1104	616	3852
Bourne Shell	9	216	498	2878
Assembly	2	282	87	1204
Objective C	2	128	76	434
HTML	4	43	3	372
make	7	104	235	175
Bourne Again Shell	1	20	31	51

SUM: 363 20895 22359 116712

TOTAL: 139071

Dioscuri v0.7.0 alpha

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (132.8 files/s, 39084.5 lines/s)

Language	files	blank	comment	code
Java	518	17250	48766	86638
HTML	12	552	218	2675
CSS	1	42	0	197

SUM: 531 17844 48984 89510

TOTAL: 915404

DOSBox v0.74

<http://cloc.sourceforge.net> v 1.56 T=2.0 s (139.0 files/s, 70631.0 lines/s)

Language	files	blank	comment	code
C++	120	7800	8416	66709
C/C++ Header	125	4717	5532	47437
m4	1	39	25	334
make	24	37	2	135
Perl	2	7	0	50
Bourne Shell	1	4	1	9
DOS Batch	4	0	0	4
Teamcenter def	1	1	0	3

SUM: 278 12605 13976 114681

TOTAL: 128657

JPC v2.41

<http://cloc.sourceforge.net> v 1.56 T=2.0 s (123.5 files/s, 53164.0 lines/s)

Language	files	blank	comment	code
Java	244	15314	12366	78427
make	1	15	0	118
XSD	1	7	0	61
HTML	1	0	0	20

SUM: 247 15336 12366 78626

TOTAL: 90992

PearPC v0.5.0

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (98.8 files/s, 42373.0 lines/s)

Language files blank comment code

C++ 138 9695 13663 82253
C 25 2862 2590 14596
C/C++ Header 174 2632 5645 13372
Bourne Shell 7 1247 1761 11497
Assembly 5 536 109 4849
m4 2 117 25 1040
make 42 158 1 303
lex 1 28 2 291
yacc 1 23 2 195

SUM: 395 17298 23798 128396

TOTAL: 152194

Plex86 v0.1

<http://cloc.sourceforge.net> v 1.56 T=60.0 s (27.6 files/s, 5938.0 lines/s)

Language files blank comment code

Perl 495 21859 36900 76624
vim script 509 9495 12816 49193
Python 180 6561 10284 28665
C/C++ Header 62 2521 5062 25916
HTML 87 2947 18 23820
Bourne Shell 112 1526 2883 10935
Bourne Again Shell 108 1428 2437 7702
C 54 1053 788 6031
C# 1 0 0 4488
make 15 361 212 1342
awk 20 87 223 1062
m4 2 42 11 468
C Shell 6 16 40 143
ASP.Net 1 0 0 141
Korn Shell 1 14 34 51
sed 1 0 1 32
Lisp 1 2 21 23

SUM: 1655 47912 71730 236636

TOTAL: 308366

QEMU v1.2.0

<http://cloc.sourceforge.net> v 1.56 T=36.0 s (110.5 files/s, 39597.8 lines/s)

Language files blank comment code

C	1975	130189	138004	797200
C/C++ Header	1422	34743	62934	189136
Assembly	257	4649	5800	23667
Perl	24	1249	1032	6195
Bourne Shell	24	442	607	4597
Python	36	888	893	3777
make	75	1074	757	3285
Bourne Again Shell	48	834	1198	2920
C++	5	298	105	1839
XML	49	181	152	1520
PHP	9	287	528	1006
Objective C	1	117	103	808
yacc	1	105	25	619
XSLT	7	126	94	513
Pascal	9	92	0	346
lex	1	40	12	308
ASP.Net	1	25	0	120
IDL	2	2	0	34
HTML	32	1	0	33
Teamcenter def	1	0	0	13

SUM: 3979 175342 212244 1037936

TOTAL: 1250180

VirtualBox v4.2.0

<http://cloc.sourceforge.net> v 1.56 T=117.0 s (85.1 files/s, 39393.7 lines/s)

Language	files	blank	comment	code
C/C++ Header	5206	205332	339594	1148719
C++	2099	162254	266391	915219
C	1523	121281	178373	836195
XML	65	9922	221	67599
Bourne Shell	106	8663	10853	66683
IDL	196	11242	4	60098
Assembly	251	8246	15103	58975
Python	165	3707	6321	20809
XSLT	33	2519	2491	17593
Teamcenter def	67	178	0	11895
m4	9	914	57	7999
HTML	41	995	428	6947
make	44	710	779	4433
Perl	25	570	703	3050
Objective C	4	521	480	2010
Java	23	429	1743	1919
Pascal	9	276	208	1890
Visual Basic	4	383	479	1714
Ada	10	599	560	1681
Objective C++	8	244	437	1532
C#	10	277	577	1105
Javascript	8	142	248	1064
XSD	7	136	188	1053
sed	17	169	487	463
Korn Shell	3	64	204	398

D	8	72	175	184
CMake	1	27	31	141
MSBuild scripts	1	1	0	140
Bourne Again Shell	3	4	20	140
DOS Batch	9	6	56	89
DTD	2	2	28	68
PHP	1	18	37	49
NAnt scripts	1	7	0	26

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SUM:                9959        539910        827276        3241880
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TOTAL: 4069156

M.A.M.E. v0.147

<http://cloc.sourceforge.net> v 1.56 T=78.0 s (90.6 files/s, 48869.1 lines/s)

Language	files	blank	comment	code
C	4623	590839	520327	2343818
C/C++ Header	2439	64331	60932	228590
Objective C	3	530	214	2015
Bourne Shell	3	26	28	131
make	2	3	0	8

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-----
SUM:                7070        655729        581501        2574562
-----
```

TOTAL: 3156063

SIMH v3.9-0

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (91.8 files/s, 76336.2 lines/s)

Language	files	blank	comment	code
C	298	39406	40521	205535
C/C++ Header	64	3192	5135	10616
make	3	132	123	656
DOS Batch	2	0	15	14

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-----
SUM:                367        42730        45794        216821
-----
```

TOTAL: 262615

Hercules v3.07

<http://cloc.sourceforge.net> v 1.56 T=5.0 s (71.2 files/s, 67539.2 lines/s)

Language	files	blank	comment	code
C	150	31952	41538	141779
Bourne Shell	10	5904	6539	44122
C/C++ Header	90	4127	6323	21140
HTML	54	1277	65	17531
m4	34	1369	308	10620
make	7	150	182	703
JCL	3	0	3	685
DOS Batch	3	222	12	675

Perl	1	16	30	203
CSS	1	18	5	120
Teamcenter def	1	0	0	62
sed	2	0	0	16

SUM:	356	45035	55005	237656
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TOTAL: 292661

U.A.E. v2.4.1

<http://cloc.sourceforge.net> v 1.56 T=3.0 s (88.7 files/s, 40570.7 lines/s)

Language	files	blank	comment	code
C	126	10388	5400	69034
Bourne Shell	10	2159	1994	19511
C/C++ Header	118	1185	1280	5929
Assembly	3	98	66	1064
C++	1	195	112	710
m4	2	51	6	562
Rexx	2	53	42	548
Objective C	1	86	35	525
Teamcenter def	1	43	0	247
Perl	2	41	130	218

SUM:	266	14299	9065	98348
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TOTAL: 107413

Arnold v2004-01-04

<http://cloc.sourceforge.net> v 1.56 T=3.0 s (94.0 files/s, 36289.7 lines/s)

Language	files	blank	comment	code
C	123	15653	11317	59468
C/C++ Header	136	2092	2727	9242
Bourne Shell	5	309	580	3929
C++	14	426	222	2282
m4	1	26	19	338
HTML	1	8	0	194
Teamcenter def	1	5	0	28
make	1	1	0	3

SUM:	282	18520	14865	75484
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TOTAL: 90349

ARAnyM v0.913

<http://cloc.sourceforge.net> v 1.56 T=5.0 s (89.6 files/s, 37914.2 lines/s)

Language	files	blank	comment	code
C++	133	9667	8031	63298
C	62	7072	4673	47622
C/C++ Header	200	3673	5649	23243

lex	1	261	0	4905
Bourne Shell	16	350	681	3861
m4	3	222	145	1932
Assembly	10	428	482	1842
Perl	10	98	73	510
make	11	129	63	259
Objective C	1	38	30	140
Bourne Again Shell	1	37	29	128

SUM:	448	21975	19856	147740

TOTAL:	167596			

Hatari v1.6.2

<http://cloc.sourceforge.net> v 1.56 T=3.0 s (113.3 files/s, 58858.7 lines/s)

Language	files	blank	comment	code

C	157	17818	19031	101363
C/C++ Header	136	2521	2178	16359
HTML	2	387	67	6972
Python	12	708	714	3913
Objective C	5	342	298	1320
Bourne Shell	11	97	146	681
Assembly	3	126	24	609
CMake	12	135	90	450
make	2	50	87	90

SUM:	340	22184	22635	131757

TOTAL:	154392			

JaC64 v1.1 beta

<http://cloc.sourceforge.net> v 1.56 T=1.0 s (75.0 files/s, 28284.0 lines/s)

Language	files	blank	comment	code

Java	72	3229	4306	20502
HTML	2	22	3	132
make	1	27	22	41

SUM:	75	3278	4331	20675

TOTAL:	25006			

VICE v2.3

<http://cloc.sourceforge.net> v 1.56 T=19.0 s (144.7 files/s, 34576.8 lines/s)

Language	files	blank	comment	code

C	1257	60371	54285	332287
Bourne Shell	82	6598	4513	50586
C/C++ Header	1130	12230	37641	39732
C++	70	1957	2947	15084

HTML	25	3188	40	9799
Objective C	63	1831	2241	8504
make	96	628	59	6086
Perl	5	143	282	1894
m4	3	200	28	1722
yacc	1	91	43	804
DOS Batch	7	0	0	635
lex	1	49	40	288
sed	1	0	5	55
Bourne Again Shell	6	16	1	43
Teamcenter def	2	2	0	8
Assembly	1	0	0	4

SUM: 2750 87304 102125 467531

TOTAL: 569656

M.E.S.S. v0.145 (jetzt Teil des M.A.M.E. Quellcodes)

<http://cloc.sourceforge.net> v 1.56 T=75.0 s (94.3 files/s, 50823.9 lines/s)

Language	files	blank	comment	code
C	4623	590839	520327	2343818
C/C++ Header	2439	64331	60932	228590
Objective C	3	530	214	2015
Bourne Shell	3	26	28	131
make	2	3	0	8

SUM: 7070 655729 581501 2574562

TOTAL: 3156063

Yabause v0.9.11

<http://cloc.sourceforge.net> v 1.56 T=5.0 s (78.2 files/s, 42839.0 lines/s)

Language	files	blank	comment	code
C	169	20650	23177	110326
C/C++ Header	159	3168	6842	28928
C++	21	1114	908	6287
Assembly	7	788	1794	5838
Objective C	6	269	141	982
CMake	10	119	43	647
Pascal	1	224	811	614
make	12	33	4	328
Bourne Shell	3	16	34	55
m4	1	2	0	32
Expect	1	1	0	18
DOS Batch	1	0	0	2

SUM: 391 26384 33754 154057

TOTAL: 187811

cxbx v0.8.0

<http://cloc.sourceforge.net> v 1.56 T=10.0 s (57.5 files/s, 33756.3 lines/s)

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-----  
Language          files      blank      comment      code  
-----  
C/C++ Header      425        39930       37869       116788  
C++                124        22194       27476       75316  
IDL                22         2212        1           13920  
HTML               2          22          90          1664  
make               1          9           38          22  
DOS Batch         1          1           0           11  
-----  
SUM:              575        64368       65474       207721  
-----  
TOTAL: 273195
```

PCSX v1.5

<http://cloc.sourceforge.net> v 1.56 T=1.0 s (102.0 files/s, 49458.0 lines/s)

```
-----  
Language          files      blank      comment      code  
-----  
C                  50         6146       3621       26585  
C/C++ Header      42         876        1126       4417  
m4                 1          455        30         3654  
Bourne Shell      3          233        236        1429  
Assembly          1          53         0          313  
make              5          72         38         174  
-----  
SUM:              102        7835       5051       36572  
-----  
TOTAL: 41623
```

PCSX2 v1.0

<http://cloc.sourceforge.net> v 1.56 T=36.0 s (103.7 files/s, 42502.3 lines/s)

```
-----  
Language          files      blank      comment      code  
-----  
C++               1029       108488     84363     436464  
C                 662        57832     50885     266266  
C/C++ Header     1760       64305     89922     232692  
Bourne Shell     43         9154     9459     60279  
m4               16         2822     388     24667  
Assembly         33         2339     730     6909  
C#               36         414      865     3522  
Objective C      20         838      754     3321  
CMake            34         672      701     3234  
HTML             6          177      7       1741  
Perl             3          182      88     1061  
make             36         564     359     934  
Teamcenter def  30         82        0     931  
Java             1          89       68     338  
C Shell          4          56       41     252  
Pascal          2          28       207     172  
MSBuild scripts  1          0         7     122  
DOS Batch       11         12        3     81  
XML              4          15       36     48
```

Python	1	20	18	39
ASP.Net	1	0	0	18
IDL	1	0	0	1

SUM:	3734	248089	238901	1043092
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TOTAL: 1281993

SNES9x v1.53

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (88.2 files/s, 57008.5 lines/s)

Language	files	blank	comment	code
C++	129	20811	17373	96054
C/C++ Header	171	8139	14865	26489
Bourne Shell	11	2668	2370	19182
Objective C++	6	1766	864	6405
C	11	854	403	4203
m4	3	359	58	2403
HTML	18	0	7	2362
make	2	36	5	228
CSS	2	18	2	110

SUM:	353	34651	35947	157436
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TOTAL: 193383

ZSNES v1.51

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (50.2 files/s, 53340.0 lines/s)

Language	files	blank	comment	code
Assembly	69	6861	5828	107841
Pascal	30	2982	0	49415
C	40	4237	2591	19337
C++	19	989	491	5498
Bourne Shell	4	145	404	2746
C/C++ Header	38	596	733	2098
m4	1	70	39	459

SUM:	201	15880	10086	187394
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TOTAL: 197480

vNES 2.15

<http://cloc.sourceforge.net> v 1.56 T=0.5 s (124.0 files/s, 31538.0 lines/s)

Language	files	blank	comment	code
Java	62	3591	2134	10044

SUM:	62	3591	2134	10044
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TOTAL: 12178

NeoCD v0.3.1

<http://cloc.sourceforge.net> v 1.56 T=1.0 s (53.0 files/s, 53040.0 lines/s)

```
-----  
Language                files          blank          comment          code  
-----  
C                        28            7930           2132            36781  
C/C++ Header            22            721            874             2415  
Assembly                 1            346            163             1565  
C++                      1             12             16              40  
make                     1             15              6              24  
-----  
SUM:                    53            9024           3191            40825  
-----
```

TOTAL: 44016

O2EM v1.1.8

<http://cloc.sourceforge.net> v 1.56 T=0.5 s (70.0 files/s, 16928.0 lines/s)

```
-----  
Language                files          blank          comment          code  
-----  
C++                      17            806            455             6747  
C/C++ Header            17            91              5              288  
make                     1             26              0              46  
-----  
SUM:                    35            923            460             7081  
-----
```

TOTAL: 7541

Dega v1.12

<http://cloc.sourceforge.net> v 1.56 T=0.5 s (106.0 files/s, 24390.0 lines/s)

```
-----  
Language                files          blank          comment          code  
-----  
C++                      36            1001           560             4929  
C                          2             517            274             2014  
C/C++ Header            14            358            903             1635  
DOS Batch                1              0              0              4  
-----  
SUM:                    53            1876           1737            8582  
-----
```

TOTAL: 10319

Stella v3.72

<http://cloc.sourceforge.net> v 1.56 T=3.0 s (86.0 files/s, 47935.0 lines/s)

```
-----  
Language                files          blank          comment          code  
-----  
C++                      170           7908           10469           43492  
C                         35           5514           5827           26341  
IDL                       1           3280              0           16711  
C/C++ Header            28           1261           4055           5388  
HTML                     3            758            42            4485  
Bourne Shell            5            211            503           3336  
m4                       1            475              0           1799  
Perl                     6            65              31            397  
-----
```

Objective C	4	133	146	387
make	2	55	69	166
Assembly	1	24	65	163
DOS Batch	1	19	0	126
yacc	1	15	6	83

SUM:	258	19718	21213	102874
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TOTAL: 124087

1964 v r146

<http://cloc.sourceforge.net> v 1.56 T=7.0 s (39.1 files/s, 52987.9 lines/s)

Language	files	blank	comment	code
C	21	50169	1321	161384
C++	97	14013	13780	73438
C/C++ Header	150	7445	8574	40398
Teamcenter def	4	12	0	368
DOS Batch	1	0	1	9
Lisp	1	0	0	3

SUM:	274	71639	23676	275600
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TOTAL: 299276

Dolphin v3.0

<http://cloc.sourceforge.net> v 1.56 T=33.0 s (96.5 files/s, 35283.1 lines/s)

Language	files	blank	comment	code
C++	1251	110538	84976	490900
C/C++ Header	1742	59661	79090	221693
C	76	10966	8147	67171
Objective C++	64	4358	2523	17987
CMake	25	155	250	1963
Assembly	3	494	184	1084
make	9	195	358	425
OpenCL	1	41	12	308
Pascal	1	29	0	247
Perl	2	47	5	172
XML	1	0	0	140
Python	2	20	4	70
Javascript	1	9	6	65
Bourne Shell	4	7	0	24
Bourne Again Shell	1	2	0	15

SUM:	3183	186522	175555	802264
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TOTAL: 977819

NullDC v1.0.4

<http://cloc.sourceforge.net> v 1.56 T=4.0 s (88.5 files/s, 30102.2 lines/s)

Language	files	blank	comment	code
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C++	141	10000	9103	49379
C/C++ Header	195	4623	5609	28634
C	14	1006	1860	9668
Assembly	1	85	0	400
make	1	12	5	21
Teamcenter def	2	0	0	4
SUM:	354	15726	16577	88106
TOTAL: 104683				