Socio-technical analysis result (QEMU)

								DOOL			ai aii		ib i obt	(
	range.date		devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas radio.silence	black.cloud	missing.links		st.congruence	communicability	global.turnover	${\rm code.turnover}$
1	2013-06	- 2013-09	365	230	11	124	0.6301	0.0301	0.3397	55	0.1507	9	0.0667	32	119	117	42	25	0 106	0	160	0.58	87 0.9	333 O.	0000	0.0000
2	2013-09	- 2013-12	375	260	9	106	0.6933	0.0240	0.2827	49	0.1307	5	0.0435	32	121	122	26	6	2 149	1	40	0.64	60 0.9	768 0.	4784	0.5200
3	2013-12	- 2014-03	371	226	15	130	0.6092	0.0404	0.3504	54	0.1456	6	0.0414	30	120	117	38	16	0 132	1	103	0.58	63 0.9	646 0.	4960	0.3692
4	2014-03	- 2014-06	431	292	17	122	0.6775	0.0394	0.2831	50	0.1160	6	0.0432	32	129	128	38	9	0 111	1	78	0.67	77 0.9	717 0.	4015	0.4859
5	2014-06	- 2014-09	411	243	23	145	0.5912	0.0560	0.3528	80	0.1946	13	0.0774	29	124	121	49	40	0 185	1	224	0.43	43 0.9	401 0.	5392	0.4104
6	2014-09	- 2014-12	408	263	10	135	0.6446	0.0245	0.3309	72	0.1765	13	0.0897	31	136	136	41	28	4 178	3	142	0.54	78 0.9	484 0.	5128	0.5367
7	2014-12	- 2015-03	387	255	18	114	0.6589	0.0465	0.2946	66	0.1705	16	0.1212	27	127	124	41	22	0 139	3	89	0.49	14 0.9	520 0.	5107	0.4982
8	2015-03	- 2015-05	404	269	23	112	0.6658	0.0569	0.2772	58	0.1436	11	0.0815	32	122	122	36	39	0 104	1	126	0.50	59 0.9	514 0.	4880	0.4794
9	2015-05	- 2015-08	401	244	23	134	0.6085	0.0574	0.3342	72	0.1796	8	0.0510	28	116	114	45	32	0 132	3	179	0.52	14 0.9	404 0.	5043	0.3904
10	2015-08	- 2015-11	432	270	18	144	0.6250	0.0417	0.3333	77	0.1782	21	0.1296	31	135	135	53	18	0 165	4	216	0.51	46 0.9	485 0.	4202	0.4451
11	2015-11	- 2016-02	394	254	13	127	0.6447	0.0330	0.3223	56	0.1421	. 14	0.1000	28	127	124	41	20	0 108	1	94	0.65	94 0.9	206 0.	5303	0.5232
12	2016 02	0010 05	40.4	~=~		100	0.0411	0.0000	0.2067	CO	0.1000	10	0.4040	0.1	197	100	10	27	0.00	1	194	0.47	20 00	054 0	1000	0.4000
		<u>- 2016-05</u>	404	259	13	132	0.6411	0.0322	0.3267	68	0.1683	19	0.1310	31	137	136	46	37	2 96	1	194	0.47	28 0.9	U54 U.	4662	0.4000
	core.global.turnover	core.mail.turnover	core.code.turnover		ratio.smelly.quitters	ratio.smelly.devs	global.truck	101	of uch	code.truck	closeness.centr	betweenness.centr	degree.centr		global.mod	130 pomlime		code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core		ratio.ml.code.core
1	00000 core.global.turnover	00000 core.mail.turnover	00000 core.code.turnover	0.00	0 ratio.smelly.quitters	0.4795 ratio.smelly.devs	global.truck	0.6695	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 code.truck	closeness.centr	E161.0 betweenness.centr	0.4581 0.4581	0.36	global.mod	0.2861	0.4	pow-epoo 756	0.0309	82	2 code.only.core.devs	g ml.code.core.devs	ratio.mail.only.core	0.0565 ratio.code.only.core	5 0.2	E ratio.ml.code.core
1 2	0.0000 0.3583	0.0000 core.mail.turnover	0.000.0 core.code.turnover	0.00 0.45	000 ratio.smelly.quitters	0.4640 0.4640 0.4640	0.6740 global.truck	0.6695	5 0.6889 7 0.773	6 6 code.truck	closeness centr 0079 .0144	0.1913 0.2389	1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	0.36 0.35	pom:ledolg 663	0.2861 0.3539	0.4 0.5	pom.epoo 5522	o.0309 0.0215	82 98	code.only.core.devs	sa ml.code.core.devs	0.6613 ratio.mail.only.core	0.0161 0.0262 0.0161 0.0066.001	5 0.2 0.1	25 E ratio.ml.code.core
1	0.0000 0.3583 0.3983 core.global.turnover	0.0000 0.0000 core.mail.turnover	0.0000 0.6765 0.1562	0.00 0.45 0.48	2500 000 ratio.smelly.quitters	0.4795 0.4640 0.4690	0.6740 0.6773 0.6765	0.6695 0.6667 0.6713	5 0.6889 7 0.7739 3 0.7379	0 6 6 code.truck	closeness: centr. 10090.	0.1913 0.2389 0.2014	0.4581 0.3930 0.3869	0.36 0.35 0.42	pom.ledolg 663	0.2861 0.3539 0.4278	0.4 0.5 0.1	pour-poo 5756 5522 861	At seed of the see	82	2 code.only.core.devs	g ml.code.core.devs	ratio.mail.only.core 0.6613 0.7903 0.6911	0.0565 0.0161 0.0488	5 0.2 1 0.1 3 0.2	25 28 ratio.ml.code.core
1	0.0000 0.3583 0.3983 0.3213	0.0000 0.3598 0.3265	0.0000 0.6765 0.1562 0.3158	0.00 0.45 0.48 0.48	satio.smelly.quitters	0.4795 0.4640 0.4690 0.3573	750,007 26,007 2	0.6695 0.6667 0.6713 7 0.6908	5 0.6889 7 0.7739 3 0.7379 8 0.7260	Code.truck 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	closeness: centr. 0079 0144 0090 0068	0.1913 0.2389 0.2014 0.2017	0.4581 0.3930 0.3869 0.3737	0.36 0.35 0.42 0.41	bom:ladopal.mod	0.2861 0.3539 0.4278 0.4206	0.4 0.5 0.1 0.5	pow.epoo 1756 5522 861 5022	0.0309 0.0215 0.0240 0.0240	82 98 85 94	code.only.core.devs	sa ml.code.core.devs	0.6613 0.7903 0.6911 0.7121	0.0565 0.0161 0.0488 0.0303	5 0.2 1 0.1 3 0.2 3 0.2	823 825 602 576
1	0.0000 0.3583 0.3983 0.3213 0.3953	0.0000 0.3598 0.3933 0.3265 0.4016	0.0000 0.6765 0.1562 0.3158 0.3218	0.00 0.45 0.48 0.48 0.31	000 ratio.smelly.duitters	0.4795 0.4640 0.4690 0.3573 0.6131	75n.t.; redolar 0.6740 0.6773 0.6765 0.7007 0.6983	0 0.6695 3 0.6667 5 0.6713 7 0.6908 3 0.6881	5 0.6889 7 0.7739 3 0.7379 8 0.7266 1 0.708	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	closeness: centr0079 .0144 .0090 .0068 .0068	0.1913 0.2389 0.2014 0.2017 0.2704	0.4581 0.3930 0.3869 0.3737 0.4453	0.36 0.35 0.42 0.41 0.41	pom:ledolg 663 670 239	0.2861 0.3539 0.4278 0.4206 0.3817	0.4 0.5 0.1 0.5 0.4	pour.epoo 5522 861 6022 8638	0.0309 0.0215 0.0240 0.0240 0.0230	82 98 85 94 83	sode.only.core.devs	sap:oop:oop:oop:35 24 32	0.6613 0.7903 0.6911 0.7121 0.6288	0.0565 0.0161 0.0488 0.0303 0.0833	5 0.2 1 0.1 3 0.2 3 0.2 3 0.2	823 935 602 576 879
1	0.0000 0.3583 0.3983 0.3213 0.3953 0.3231	0.0000 0.3598 0.3933 0.3265 0.4016 0.3113	0.0000 0.6765 0.1562 0.3158 0.3218 0.6444	0.00 0.45 0.48 0.48 0.31 0.56	000 520 845 172 667	0.4795 0.4640 0.4690 0.3573 0.6131 0.5466	0.6740 0.6773 0.6765 0.7007 0.6983 0.6667	0 0.6695 3 0.6667 5 0.6713 7 0.6908 8 0.6881 7 0.6583	5 0.6889 7 0.7739 3 0.7379 8 0.7260 1 0.7083 3 0.7175	9 0 0 9 0 0 6 0 3 0 0 2 0	closeness: centr. closeness centr. 0079 0144 0090 0068 0068 0068 0088	0.1913 0.2389 0.2014 0.2017 0.2704 0.2248	0.4581 0.3930 0.3869 0.3737 0.4453 0.4034	0.36 0.35 0.42 0.41 0.41 0.53	pom:legols 5663 570 239 141 1884 1870	0.2861 0.3539 0.4278 0.4206 0.3817 0.4534	0.4 0.5 0.1 0.5 0.4 0.4	рош-эроэ 1756 5522 .861 6022 4638 4269	0.0309 0.0215 0.0240 0.0240 0.0230 0.0241	82 98 85 94 83 99	code.only.core.devs	sop:ooc:opo:our:35 24 32 34	0.6613 0.7903 0.6911 0.7121 0.6288 0.7071	0.0565 0.0161 0.0488 0.0303 0.0833 0.0286	5 0.2 0.1 3 0.2 3 0.2 3 0.2 6 0.2	823 826 827 828 829 843
1 2 3 4 5 6 7	0.0000 0.3583 0.3983 0.3953 0.3231 0.4259	0.0000 0.3598 0.3933 0.3265 0.4016 0.3113 0.4385	0.0000 0.6765 0.1562 0.3158 0.3218 0.6444 0.5122	0.00 0.45 0.48 0.31 0.56 0.48	000 520 8845 172 667 828	0.4795 0.4640 0.3573 0.6131 0.5466 0.4703	0.6740 0.6740 0.6765 0.7007 0.6983 0.6667 0.6718	0 0.6695 3 0.6667 5 0.6713 7 0.6908 3 0.6881 7 0.6583 8 0.6640	5 0.6889 7 0.773; 3 0.737; 3 0.726; 1 0.708; 3 0.717; 0 0.689	9 0 9 0 9 0 6 0 3 0 2 0 4 0	contractions of the second of	0.1913 0.2389 0.2014 0.2017 0.2704 0.2248 0.2386	0.4581 0.3930 0.3869 0.3737 0.4453 0.4034 0.3561	0.36 0.35 0.42 0.41 0.53 0.46	pom:ledols 6363 670 239 441 884 870 616	0.2861 0.3539 0.4278 0.4206 0.3817 0.4534 0.4375	0.4 0.5 0.1 0.5 0.4 0.4	pom-spoo 1756 5522 .861 5022 1638 1269 5162	0.0309 0.0215 0.0240 0.0230 0.0241 0.0222	82 98 85 94 83 99	7 code.only.core.devs	35 24 32 34 38 37 34	0.6613 0.7903 0.6911 0.7121 0.6288 0.7071 0.6870	0.0565 0.0161 0.0488 0.0303 0.0833 0.0286 0.0534	5 0.2 1 0.1 3 0.2 3 0.2 3 0.2 4 0.2	823 935 602 576 879 643 595
1 2 3 4 5 6 7 8	0.0000 0.3583 0.3983 0.3213 0.3953 0.4259 0.3614	0.0000 0.3598 0.3933 0.3265 0.4016 0.3113 0.4385 0.3415	0.0000 0.6765 0.1562 0.3158 0.3218 0.6444 0.5122 0.5714	0.00 0.45 0.48 0.31 0.56 0.48	000 520 865 845 172 667 828 990	0.4795 0.4640 0.4690 0.3573 0.6131 0.5466 0.4703 0.3886	0.6740 0.6740 0.6765 0.7007 0.6983 0.6667 0.6718 0.6980	0 0.6695 0 0.6667 5 0.6715 7 0.6908 3 0.6881 7 0.6583 8 0.6640 0 0.6798	5 0.6889 7 0.7739 8 0.7260 1 0.7083 3 0.7175 0 0.6894 8 0.7333	9 0 9 0 9 0 6 0 3 0 2 0 4 0 3 0	.0079 .0079 .0144 .0090 .0068 .0068 .0068	0.1913 0.2389 0.2014 0.2017 0.2704 0.2248 0.2386 0.2038	0.4581 0.3930 0.3869 0.3737 0.4453 0.4034 0.3561 0.4089	0.36 0.35 0.42 0.41 0.53 0.46 0.42	pour: ledols 663 670 239 141 184 1870 616 275	0.2861 0.3539 0.4278 0.4206 0.3817 0.4534 0.4375 0.4395	0.4 0.5 0.1 0.5 0.4 0.6 0.6	pom: poo 1756 1522 1861 16022 1638 1269 162 16475	0.0309 0.0215 0.0240 0.0230 0.0241 0.0222 0.0228	82 98 85 94 83 99 90	7 2 6 4 11 4 7 9	35 24 32 34 38 37 34 27	0.6613 0.7903 0.6911 0.7121 0.6288 0.7071 0.6870 0.7252	0.0565 0.0161 0.0488 0.0303 0.0833 0.0286 0.0534 0.0687	6 0.2 1 0.1 3 0.2 3 0.2 3 0.2 4 0.2 7 0.2	823 825 602 576 879 643 595 061
1 2 3 4 5 6 7	0.0000 0.3583 0.3983 0.3213 0.3953 0.3231 0.4259 0.3614 0.3193	0.0000 0.3598 0.3933 0.3265 0.4016 0.3113 0.4385 0.3415 0.3220	0.0000 0.6765 0.1562 0.3158 0.3218 0.6444 0.5122 0.5714 0.4444	0.00 0.45 0.48 0.31 0.56 0.48 0.39 0.34	000 520 8845 172 667 8899 498	0.4795 0.4640 0.4690 0.3573 0.6131 0.5466 0.4703 0.3886 0.4788	0.6740 0.6740 0.6773 0.6765 0.7007 0.6983 0.6667 0.6718 0.6980 0.7107	0 0.6695 0 0.6695 3 0.6667 7 0.6908 3 0.6881 7 0.6585 8 0.6640 0 0.6798 7 0.6984	5 0.6889 7 0.773 8 0.726 1 0.708; 3 0.717; 0 0.689 8 0.733; 4 0.713	9 0 0 9 0 0 6 0 3 0 0 2 0 0 4 0 0 4 0 0	.0079 .0079 .0144 .0090 .0068 .0068 .0096 .0059	0.1913 0.2389 0.2014 0.2017 0.2704 0.2248 0.2386 0.2038 0.2106	0.4581 0.3930 0.3869 0.3737 0.4453 0.4034 0.3561 0.4089 0.3795	0.36 0.35 0.42 0.41 0.53 0.46 0.42 0.51	pom: redols 663 670 239 441 884 870 616 275 473	0.2861 0.3539 0.4278 0.4206 0.3817 0.4534 0.4375 0.4395 0.5302	0.4 0.5 0.1 0.5 0.4 0.6 0.6	pour.epoo 6756 6522 861 6022 638 6269 6162 6475 6197	0.0309 0.0215 0.0240 0.0240 0.0230 0.0241 0.0222 0.0228 0.0255	82 98 85 94 83 99 90 95 75	7 code.only.core.devs	35 24 32 34 38 37 34	0.6613 0.7903 0.6911 0.7121 0.6288 0.7071 0.6870 0.7252 0.6250	0.0565 0.0161 0.0488 0.0303 0.0286 0.0534 0.0687 0.0500	5 0.2 1 0.1 3 0.2 3 0.2 3 0.2 4 0.2 7 0.2 9 0.3	823 935 602 576 879 643 595 061 250
1 2 3 4 5 6 7 8 9	0.0000 0.3583 0.3983 0.3213 0.3953 0.3231 0.4259 0.3614 0.3193 0.2629	0.0000 0.3598 0.3933 0.3265 0.4016 0.3113 0.4385 0.3415 0.3220 0.2490	0.0000 0.6765 0.1562 0.3158 0.3218 0.6444 0.5122 0.5714 0.4444 0.4898	0.00 0.45 0.48 0.31 0.56 0.48 0.39 0.34	828 990 498 514	0.4795 0.4640 0.4690 0.3573 0.6131 0.5466 0.4703 0.3886 0.4788 0.5440	0.6740 0.6740 0.6773 0.6765 0.7007 0.6983 0.6667 0.6718 0.6980 0.7107 0.6875	0 0.6695 0 0.6695 0 0.6713 7 0.6908 3 0.6881 7 0.6583 8 0.6640 0 0.6798 7 0.6984 6 0.6738	5 0.6889 6 0.7733 7 0.7739 8 0.7260 1 0.7083 3 0.7173 0 0.6894 8 0.7333 4 0.7134 9 0.6728	9 0 9 0 9 0 6 0 3 0 2 0 4 0 8 0	.0079 .0144 .0090 .0068 .0068 .0096 .0059 .0081	0.1913 0.2389 0.2014 0.2017 0.2704 0.2248 0.2386 0.2038 0.2106 0.2227	0.4581 0.3930 0.3869 0.3737 0.4453 0.4034 0.3561 0.4089 0.3795 0.4061	0.36 0.35 0.42 0.41 0.53 0.46 0.42 0.51 0.47	pom:ledologo 5663 570 239 141 184 1870 166 175 173 175 1	0.2861 0.3539 0.4278 0.4206 0.3817 0.4534 0.4375 0.4395 0.5302 0.4480	0.4 0.5 0.1 0.5 0.4 0.6 0.6 0.6	pour.epoo 1756 1522 1638 1269 16162 16475 16197 16781	0.0309 0.0215 0.0240 0.0230 0.0241 0.0222 0.0228 0.0255 0.0255	82 98 85 94 83 99 90 95 75	7 2 6 4 11 4 7 9 6 9	35 24 32 34 38 37 34 27 39 44	0.6613 0.7903 0.6911 0.7121 0.6288 0.7071 0.6870 0.7252 0.6250 0.6319	0.0565 0.0161 0.0488 0.0303 0.0883 0.0286 0.0534 0.0687 0.0500 0.0625	6 0.2 1 0.1 3 0.2 3 0.2 3 0.2 4 0.2 7 0.2 9 0.3 6 0.3	823 935 602 576 879 643 595 061 250 056
1 2 3 4 5 6 7 8 9	0.0000 0.3583 0.3983 0.3213 0.3953 0.3231 0.4259 0.3614 0.3193	0.0000 0.3598 0.3933 0.3265 0.4016 0.3113 0.4385 0.3415 0.3220 0.2490 0.3938	0.0000 0.6765 0.1562 0.3158 0.3218 0.6444 0.5122 0.5714 0.4444	0.00 0.45 0.48 0.31 0.56 0.48 0.39 0.34 0.45	000 520 865 845 172 667 828 990 498 514 160	0.4795 0.4640 0.4690 0.3573 0.6131 0.5466 0.4703 0.3886 0.4788	0.6740 0.6740 0.6773 0.6765 0.7007 0.6983 0.6667 0.6718 0.6980 0.7107	0 0.6695 0 0.6667 0 0.6713 7 0.6908 3 0.6881 7 0.6583 8 0.6640 0 0.6798 7 0.6984 6 0.6739 7 0.6745	5 0.6889 7 0.7733 8 0.7266 1 0.7083 3 0.7173 0 0.689 8 0.7333 4 0.713 9 0.6728 5 0.707	9 0 9 0 9 0 6 0 3 0 4 0 4 0 8 0 1 0	.0079 .0144 .0090 .0068 .0068 .0088 .0096 .0059 .0081 .0096 .0152	0.1913 0.2389 0.2014 0.2017 0.2704 0.2248 0.2386 0.2038 0.2106	0.4581 0.3930 0.3869 0.3737 0.4453 0.4034 0.3561 0.4089 0.3795	0.36 0.35 0.42 0.41 0.53 0.46 0.42 0.51	pour.legols 3663 570 239 441 884 370 516 275 173 775 334	0.2861 0.3539 0.4278 0.4206 0.3817 0.4534 0.4375 0.4395 0.5302	0.4 0.5 0.1 0.5 0.4 0.6 0.6 0.6 0.5	pour.epoo 6756 6522 861 6022 638 6269 6162 6475 6197	0.0309 0.0215 0.0240 0.0240 0.0230 0.0241 0.0222 0.0228 0.0255	82 98 85 94 83 99 90 95 75	7 2 6 4 11 4 7 9 6	35 24 32 34 38 37 34 27	0.6613 0.7903 0.6911 0.7121 0.6288 0.7071 0.6870 0.7252 0.6250	0.0565 0.0161 0.0488 0.0303 0.0286 0.0534 0.0687 0.0500	5 0.2 1 0.1 3 0.2 3 0.2 3 0.2 4 0.2 7 0.2 7 0.2 9 0.3 1	823 935 602 576 879 643 595 061 250

Community smells: Pearson's correlation (${\bf QEMU}$)

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	devs	ml.only.devs	code.only.devs	m ml.code.devs	perc.ml.only.devs	perc.code.only.devs	${\it perc.ml.code.devs}$	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover
org.silo	0.14	-0.23	0.51	0.37	-0.50	0.52	0.32	0.62	0.65	0.40	0.36	-0.19	0.04	0.00	0.49	-	0.02	0.00	-0.00	0.69	-0.80	-0.64	0.47
prima.donnas	0.00	0.18	-0.61	-0.00	0.28	-0.64	-0.02	0.11	0.12	0.08	0.12	0.31	0.51	0.58	-0.23	0.02	-	0.30	0.09	-0.07	-0.00	-0.04	0.09
radio.silence	0.23	-0.06	0.09	0.46	-0.32	0.05	0.34	0.61	0.59	0.14	0.03	-0.17	0.16	0.17	0.24	0.00	0.30	-	0.47	0.28	-0.33	0.32	0.25
black.cloud	0.32	0.07	0.12	0.35	-0.21	0.08	0.20	0.60	0.56	0.46	0.41	-0.27	0.28	0.28	0.50	-0.00	0.09	0.47	-	0.36	-0.31	0.01	-0.12
missing.links	0.39	-0.21	0.41	0.83	-0.76	0.37	0.67	0.83	0.80	0.58	0.43	-0.08	0.24	0.20	0.89	0.69	-0.07	0.28	0.36	-	-0.74	-0.58	0.06
		core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	hotwoonnoss contr	•	olobal mod		mall.mod	code.mod		mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core
O1	rg.silo	-0.06	-0.08	-0.03	-0.60	0.27	0.12	0.05	-0.39	-0.46	0.18				3 0.2	1 0.13							.19
prima.de		-0.33	-0.33	0.48	0.38	0.20	-0.56	-0.62	0.20	0.25	0.14												.33
radio.s		0.05	0.05	0.05	0.02	0.88	0.08	0.05	0.05	-0.07	0.46												.24
black. missing	.cloud	-0.35	-0.34	0.23	0.18	0.46	0.02	-0.04	-0.53	-0.12	-0.11	-0.24	0.70	0.39	9 0.3	8 - 0.23	8 -0.1	17 0	.04 0	.62 -0		.01 0	.56
		-0.47	-0.46	-0.24	-0.58	0.59	0.16	0.12	-0.68	-0.41	0.13	0.59	0.25	5 - 0.14	4 0.1	0 - 0.39	9 -0.3		.79 0	0.74 - 0	.81 0	.77 - 0.	.62

-0.36 0.38

0.07 0.07 -0.57

Community smells: Pearson's correlation - p-values (${\bf QEMU}$)

					_		CALLE	J ~					COL		AUI 0.	г			' ('	~	••	,						
		devs	ml.only.devs	code.only.devs	m].code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	syonsoned fore devis	aponeacone conde	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	-	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud		IIISSIIIB.	st.congruence	communicability	global.turnover	code.turnover
org.:	.silo	0.66	0.48	0.09	0.23	0.10	0.08	0.30	0.03	0.02	0.20	0 0.	25 (0.56	0.90	0.99	0.1	1	- 0).95	1.00	0.99	0.0	1 0.	00	0.03	0.15	0.28
prima.don	nas	0.99	0.58	0.03	0.99	0.38	0.02	0.94	0.73	0.71	0.80	0 0.	71 (0.33	0.09	0.05	0.4	7 0.9	95	-	0.34	0.79	0.8	2 1.	00	0.91	0.80	0.24
radio.sile	ence	0.47	0.86	0.79	0.13	0.30	0.87	0.28	0.04	0.04	0.6'	7 0.	92 (0.59	0.61	0.60	0.4	5 1.0	00 0	0.34	-	0.15	0.3	8 0.	30	0.31	0.46	0.84
black.clo		0.34	0.83	0.73	0.29		0.80	0.55	0.05	0.07	0.18			0.41	0.41	0.40	0.1			0.79	0.15	-	0.2		36	0.98	0.73	0.84
missing.li	inks	0.21	0.52	0.18	0.00	0.00	0.23	0.02	0.00	0.00	0.0	5 0.	16 (0.82	0.45	0.53	0.0	0.0	01 0	0.82	0.38	0.28		- 0.	01	0.05	0.87	0.07
				core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness centr		degree.centr	global.mod	mail.mod	code.mod	density		mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core		ratio.code.only.core	ratio.ml.code.core	
		org.si										0.13	0.58					0.52	0.72	0.6			0.43	0.12	0.0		55	
	-	a.donn										0.44	0.66					0.74	0.59				0.70	0.15	0.1		30	
		io.silen										0.83	0.13					0.94	0.24	0.8			0.33	0.56	0.9		45	
		ıck.cloı							96 0.			0.73	0.75					0.25	0.41	0.6			0.04	0.16	0.9			
	miss	ing.lin	ks 0 .	.14 0	.15 (0.48 (0.06 0	.04 0	61 0.	72 0	.02	0.18	0.69	0.0	04	.43 0	.67	0.75	0.21	0.3	3 0.	00 (0.01	0.00	0.0	00 0.	03	

Community smells: Spearman's correlation (\mathbf{QEMU})

								·								•		,						
		devs	ml.only.devs	code.only.devs	ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core.global.devs	core.mail.devs	core.code.devs	org.silo	prima.donnas	radio.silence	black.cloud	missing.links	st.congruence	communicability	
	org.silo	0.22	-0.20	0.48	0.40	-0.44	0.45	0.26	0.68	0.60	0.40	0.39	-0.20	0.03	-0.08	0.46	-	-0.00	-0.12	0.01	0.69	-0.75	-0.64	0.4
1	ma.donnas	0.03	0.26	-0.68	0.02	0.29	-0.70	-0.22	-0.01	-0.04	0.01	0.20	0.27	0.44	0.53	-0.13	-0.00	-	0.14	-0.01	-0.07	-0.02	-0.03	-0.0
$r\epsilon$	idio.silence	0.31	0.02	0.06	0.46	-0.26	0.03	0.33	0.42	0.50	0.02	-0.07	-0.28	0.08	0.03	0.20	-0.12	0.14	-	0.46	0.14	-0.15	0.30	0.3
	olack.cloud	0.27	0.19	0.19	0.41	-0.26	0.23	0.26	0.57	0.60	0.46	0.41	-0.33	0.20	0.23	0.49	0.01	-0.01	0.46	-	0.30	-0.18	-0.05	0.0
\mathbf{m}	issing.links	0.40	-0.21	0.39	0.83	-0.81	0.34	0.67	0.83	0.81	0.52	0.41	-0.17	0.12	-0.02	0.87	0.69	-0.07	0.14	0.30	_	-0.66	-0.66	0.1
			core.global.turnover	core.mail.turnover	core.code.turnover	ratio.smelly.quitters	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness.centr	betweenness.centr	degree.centr	global.mod	mail.mod	code.mod	density	mail.only.core.devs	code.only.core.devs	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core	-
		g.silo	o core.global.turnover	.mail.turnover	code.turnover	.c. cs ratio.smelly.quitters	smelly.devs	10.0 global.truck	80.0 mail.truck	65.0- code.truck	closeness.centr	0.17 petweenness.centr		pom		code.mod		0. mail.only.core.devs	code.only.core.devs	code.core.devs	mail.only.	0.73 ratio.code.only.core	0.23 ratio.ml.code.core	-
	or; prima.do	nnas	0.00 core.global.turnover	-0.40 core.mail.turnover	-0.07 core.code.turnover	0.0 -0.0 Sg ratio.smelly.quitters	60.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.01 global.truck	80.0 mail.truck	-0.29 code.truck	closeness.centr -0.44 0.37	0.17 0.29	0.52 0.18	0.21 -0.10	0.29 0.11	0.13 -0.23	61.0 0.13 -0.15	27.0- mail.only.core.devs	0.70 code.only.core.devs	-0.07 88.0 ml.code.core.devs	-0.41 -0.41	0.73 6.0-9 ratio.code.only.core	0.23 -0.42	-
	or prima.do radio.si	onnas lence	0.00 0.01 0.04	core.mail.turnover	-0.07 -0.48 0.15	00.0 00.0 8 ratio.smelly.quitters	0.31 0.09 0.71	0.01 -0.59 0.12	0.08 -0.70 0.02	-0.29 -0.15 0.11	-0.44 0.37 0.02	0.17 0.29 0.42	0.52 0.18 -0.10	pom:Teqolg 0.21 -0.10 0.29	рош: шш 0.29 0.11 -0.17	0.13 -0.23 -0.11	0.13 -0.15 -0.25	0.0-5 -0.09 -0.09 -0.09	0.70 -0.31 -0.13	0.38 ml.code.core.devs	-0.41 -0.15	0.73 -0.39 -0.19	0.23 -0.42 0.36	-
	or; prima.do radio.si black.o	onnas lence cloud	0.00 -0.31 0.04 -0.32	0.01 -0.40 0.12 -0.37	-0.07 -0.48 0.15 0.21	0.00 0.00 0.03	0.31 0.09 0.71 0.60	0.01 -0.59 0.12 -0.03	0.08 -0.70 0.02 -0.11	-0.29 -0.15 -0.11 -0.48	-0.44 0.37 0.02 0.03	0.17 0.29 0.42 -0.07	0.52 0.18 -0.10 -0.22	0.21 -0.10 0.29 0.68	0.29 0.11 -0.17 0.39	0.13 -0.23 -0.11 0.36	0.13 -0.15 -0.25 0.42	-0.10 -0.75 -0.09 -0.11	0.70 -0.31 -0.13 0.03	0.38 -0.07 0.35 0.62	-0.41 -0.15 -0.38	0.73 -0.39 -0.19 -0.01	0.23 -0.42 0.36 0.56	-
	or prima.do radio.si	onnas lence cloud	0.00 0.01 0.04	0.01 core.mail.turnover	-0.07 -0.48 0.15	00.0 00.0 8 ratio.smelly.quitters	0.31 0.09 0.71	0.01 -0.59 0.12	0.08 -0.70 0.02	-0.29 -0.15 0.11	-0.44 0.37 0.02	0.17 0.29 0.42	0.52 0.18 -0.10	pom:Teqolg 0.21 -0.10 0.29	рош: шш 0.29 0.11 -0.17	0.13 -0.23 -0.11	0.13 -0.15 -0.25	0.0-5 -0.09 -0.09 -0.09	0.70 -0.31 -0.13	0.38 ml.code.core.devs	-0.41 -0.15	0.73 -0.39 -0.19	0.23 -0.42 0.36	-

Community smells: Spearman's correlation - p-values (QEMU)

					<u> </u>	01111	ши	uioy	BILL	110.	PP	all	пап		011	CIGU.	011	Р	- vai	uck	, (~	ү шт,		,					
		devs	ml.only.devs	code.onlv.devs		ml.code.devs	perc.ml.only.devs	perc.code.only.devs	perc.ml.code.devs	sponsored.devs	entio anomono	ratio.sponsored	sponsored.core.devs	ratio.sponsored.core	num.tz	core global devs	D	core.mail.devs	core.code.devs	org.silo) minus	рина.чонная	radio.silence	black.cloud	missing.links	st.congruence	communicability	global.turnover	code.turnover
org.s	silo	0.49	0.53	0.12	2 0.2	20 0	0.15	0.15	0.42	0.01	0.0	4 0.	20	0.21	0.52	0.92	2 0.8	80	0.14	-	0.9	9 0.	71 (0.98	0.02	0.01	0.03	0.15	0.45
prima.doni	nas	0.92	0.41	0.02	0.9	94 (0.37	0.01	0.49	0.98	0.9	0 0.	.97 (0.54	0.40	0.15	0.0)8 (0.68	0.99)	- 0.	.67	0.98	0.83	0.95	0.92	0.85	0.25
radio.silei	nce	0.33	0.94	0.86	0.1	4 0	0.41	0.92	0.30	0.17	0.0	9 0.	.94	0.82	0.38	0.81	0.9)2	0.53	0.71	0.6	7	- (0.15	0.66	0.63	0.34	0.28	0.58
black.clc	oud	0.43	0.57	0.57	0.2	22 0	0.45	0.49	0.45	0.07	0.0	5 - 0.	16	0.22	0.32	0.56	0.5	51 (0.13	0.98	0.9	8 0.	.15	-	0.37	0.59	0.88	0.95	0.80
missing.lii	nks	0.20	0.51	0.21	0.0	00 0	0.00	0.29	0.02	0.00	0.0	0 0.	.08	0.19	0.59	0.72	2 0.9	95 (0.00	0.02	0.8	3 0.	.66 (0.37	-	0.02	0.02	0.58	0.13
				core.global.turnover	core.mail.turnover	core.code.turnover	:	ratio.	ratio.smelly.devs	global.truck	mail.truck	code.truck	closeness centr		betweenness.centr	degree.centr	global.mod	mail mod	man.mou	code.mod	density	mail.only.core.devs	code.only.core.devs	1	ml.code.core.devs	ratio.mail.only.core	ratio.code.only.core	ratio.ml.code.core	
_		org.si			0.99	0.84						0.37	0.15				0.51	0.37			0.69	0.77	0.01	0.2				.47	
]	-	a.donn			0.22	0.14						0.65	0.23				0.75	0.73				0.01	0.33					.17	
		o.silen			0.73	0.67						0.73	0.94				0.36	0.59				0.77	0.68					.24	
		ck.cloı			0.26	0.53						0.14	0.93				0.02	0.23			0.20	0.76	0.94					.07	
	$_{ m miss}$	ing.lin	ks 0	.19	0.24	0.39	0.0	0.	03 - 0.	85 (0.78	0.05	0.46	0.	90 (0.03	0.57	0.44	4 - 0.9)2 (0.06	0.46	0.00	0.0	0.00	.01 0	.01 0	.03	