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EOS: Lab 9: fuse

lab-lab: program running on a lab computer, copying a file from that computer to another location on that computer
pi-pi (no sshfs): program running on the pi, copying a file from the pi to another location on that pi
pi-lab: program running on a lab computer, copying a file from a folder mounted to the pi, to an (unmounted) folder on the computer
lab-pi: program running on a lab computer, copying a file from a location on the computer to the mounted folder
pi-pi (sshfs): program running on a lab computer, copying a file from the mounted folder to another location on that mounted folder.

Running my benchmark program on BUF_SIZE = 1024 and file size = 3 kB for 100 times produced the results in Table 2, summarized in Table 1 (average times), and Graph 1 (y-axis is the time in microseconds). These results show a clear different between using sshfs and not using it.
The most inefficient is the pi-pi with sshfs, which on average is 100 times slower than lab-lab, and 10 times slower than pi-pi w/o sshfs.

Table 1.

pi-pi (sshfs)	lab-pi	pi-lab	pi-pi (no sshfs)	lab-lab
11196.77	9215.11	2039.71	1159.93	108.56

Graph 1.

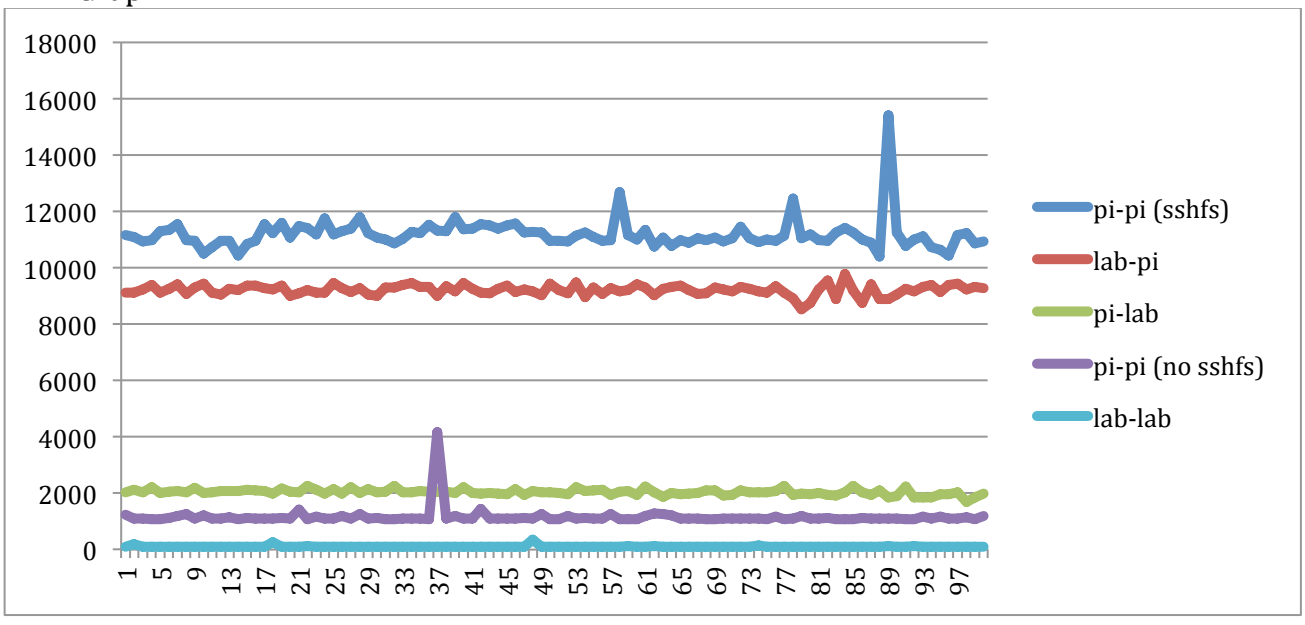

Table 2.

pi-pi (sshfs)	lab-pi	pi-lab	pi-pi (no sshfs)	lab-lab
11168	9128	2022	1244	102
11103	9116	2128	1104	184
10949	9236	2032	1102	106
10982	9384	2219	1080	101
11303	9131	2005	1083	103
11351	9262	2063	1114	103
11544	9415	2083	1200	105
10989	9075	2038	1255	102
10965	9311	2181	1110	103
10517	9438	2014	1211	101
10723	9114	2029	1106	104
10971	9059	2086	1102	102
10967	9259	2084	1154	101
10449	9217	2076	1081	101
10837	9369	2114	1113	102
10965	9375	2090	1109	102
11555	9288	2071	1109	106
11238	9224	1991	1112	253
11603	9376	2170	1116	103
11072	9000	2065	1108	103
11493	9095	2042	1416	103
11407	9219	2251	1083	116
11192	9121	2128	1173	102
11761	9116	1983	1094	102
11193	9456	2141	1104	101
11293	9286	1995	1188	102
11392	9150	2225	1097	103
11811	9290	2014	1257	107
11237	9061	2157	1104	102
11068	8996	2034	1114	102
11012	9313	2050	1081	102
10871	9297	2251	1071	102
11039	9399	2043	1112	101
11286	9452	2025	1102	104
11234	9317	2086	1111	101
11521	9334	2065	1086	102
11316	9015	2052	4167	102
11300	9350	2053	1104	102
11793	9169	2006	1190	107
11378	9454	2213	1105	102
11393	9256	2003	1092	102

11555	9116	1989	1439	103
11505	9095	2015	1098	101
11389	9253	1978	1112	101
11509	9378	1965	1101	102
11585	9134	2155	1100	102
11258	9229	1946	1114	102
11280	9173	2084	1103	351
11259	9031	2042	1267	103
10963	9440	2044	1078	102
10960	9211	2018	1080	101
10929	9093	1963	1194	103
11132	9493	2220	1108	102
11247	8969	2080	1119	104
11100	9298	2106	1105	103
10954	9084	2115	1108	101
10984	9280	1952	1269	103
12696	9155	2051	1079	102
11166	9204	2068	1078	128
11008	9416	1950	1079	101
11357	9300	2232	1195	103
10762	9040	2035	1290	116
11064	9255	1881	1270	102
10787	9317	2010	1210	102
10985	9363	1970	1098	101
10891	9218	1986	1106	103
11056	9080	2000	1109	102
10982	9095	2090	1087	102
11072	9305	2092	1068	103
10947	9243	1917	1103	108
11045	9165	1935	1109	101
11453	9335	2105	1096	102
11049	9253	2037	1111	103
10905	9161	2030	1109	142
11013	9117	2026	1074	101
10958	9341	2072	1176	101
11143	9115	2258	1077	102
12454	8927	1940	1095	104
11058	8521	1981	1184	102
11191	8768	1964	1111	103
10991	9241	2020	1103	106
10972	9544	1949	1114	103
11261	8886	1925	1071	101
11415	9776	2034	1087	102

11248	9184	2267	1073	101
10999	8747	2029	1117	109
10894	9425	1944	1103	102
10404	8898	2095	1101	101
15414	8892	1857	1108	119
11264	9046	1898	1101	101
10782	9254	2240	1085	101
11012	9170	1851	1084	125
11123	9321	1852	1167	101
10736	9397	1841	1108	102
10637	9137	1972	1175	102
10430	9402	1958	1101	102
11156	9448	2030	1100	101
11238	9233	1692	1152	103
10879	9334	1841	1075	101
10930	9282	1996	1195	101
11196.77	**9215.11**	**2039.71**	**1159.93**	**108.56**