

Accelerometer and Gyroscope(MPU6050)

20140413

Reference;

i2c_utility_0.2.1.f

MPU6050_0.1.f

Prop0 Cog6 ok

i2c_detect

```
    0 1 2 3 4 5 6 7 8 9 A B C D E F
00: - - - - -
10: - - - - -
20: - - - - -
30: - - - - -
40: - - - - -
50: 50 - - - - -
60: - - - - - 68 - - - - - <-- MPU6050's address is h68.
70: - - - - -
i2c_device:2
```

Prop0 Cog6 ok

Communication test;

Prop0 Cog6 ok

WHO_AM_I

h68

Prop0 Cog6 ok

rd_selftest

SELFTEST_A:h21

SELFTEST_Z:h97

SELFTEST_Y:h4E

SELFTEST_X:h51

Prop0 Cog6 ok

rd_config

CONFIG :h0

GYRO_CONFIG:h0

ACCEL_CONFIG:h0

Prop0 Cog6 ok

These are merely raw data.

Prop0 Cog6 ok

raw-data

Acc-X	ACC-Y	Acc-Z	Temp[dereec]	Gyro-X	Gyro-Y	Gyro-Z
-1448	-188	15932	24 .14	-106	-48	-154
-1502	-150	15782	24 .16	-105	-63	-148
-1396	-72	15856	24 .14	-123	-64	-164
-1490	-178	15962	24 .14	-117	70	-154
-1514	-104	16224	24 .44	-116	161	-128
-1614	-60	16124	24 .65	-108	713	-116
-2210	-152	16216	24 .83	-118	1469	-168
-2488	-182	16212	24 .99	-213	539	-198
-2532	-172	16174	25 .15	-151	-13	-132
-2634	-242	16134	25 .32	-157	1	-165
-2638	-242	16084	25 .45	-156	85	-174
-2610	-108	16046	25 .53	-153	89	-160
-2700	-184	16126	25 .62	-169	163	-153
-2632	-216	16006	25 .71	-158	40	-166
-2712	-170	16032	25 .74	-164	116	-162
-2786	-184	16104	25 .85	-153	-50	-149
-2762	-292	15932	25 .92	-167	-42	-186
-2734	-200	15994	25 .98	-164	-25	-191
-2768	-162	15958	26 .1	-159	-40	-198
-2686	-218	15890	26 .9	-169	-31	-175

Acc-X	ACC-Y	Acc-Z	Temp[dereec]	Gyro-X	Gyro-Y	Gyro-Z
-2756	-150	15954	26 .9	-196	-107	-193
-2720	-222	15966	26 .11	-151	35	-151
-2780	-248	16010	26 .15	-154	-15	-176
-2718	-166	15912	26 .22	-149	-27	-196
-2774	-130	15852	26 .20	-156	-18	-185
-2774	-204	15840	26 .22	-152	-9	-191
-2828	-310	15904	26 .23	-161	-49	-195
-2784	-210	15932	26 .27	-177	-78	-208
-2740	-142	15472	26 .31	-158	-3312	-255
-2390	-200	15864	26 .19	-154	-135	-184
-2358	-218	15870	26 .11	-130	-109	-151
-2344	-240	15796	26 .3	-145	-113	-171
-2380	-196	15778	25 .90	-130	-64	-158
-2228	4442	15748	25 .79	212	11	-2332
-2440	-1674	17136	25 .76	-8848	-1128	-3068
-1378	-2832	13646	25 .67	2384	4132	-1286
-2894	-1582	15262	25 .61	537	23	-3912
-694	-3582	14684	25 .58	-11358	-571	-1012
-706	-4150	12266	25 .56	7593	1899	1218
-1792	-586	14276	25 .48	-205	1162	-216