

Intel i7-2635QM

	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257	1e-320
	Cycle count								
0.0	<b>520.77</b>	520.80	520.65	520.62	<b>520.83</b>	<b>520.73</b>	<b>520.82</b>	520.71	520.96
1.0	<b>520.72</b>	<b>520.58</b>	<b>520.79</b>	<b>520.59</b>	<b>520.32</b>	<b>520.74</b>	520.62	<b>520.77</b>	520.88
1e10	<b>520.95</b>	520.76	<b>520.56</b>	<b>520.94</b>	521.15	<b>521.05</b>	<b>520.72</b>	<b>521.62</b>	<b>521.01</b>
1e+200	521.05	<b>521.27</b>	<b>520.66</b>	520.84	<b>520.88</b>	<b>521.08</b>	<b>521.38</b>	521.17	521.06
1e-300	<b>521.32</b>	<b>521.50</b>	<b>520.99</b>	<b>521.19</b>	520.60	520.85	<b>520.93</b>	<b>520.90</b>	<b>521.38</b>
1e-42	<b>520.44</b>	520.72	<b>520.54</b>	<b>520.65</b>	<b>520.43</b>	520.91	<b>521.06</b>	<b>521.04</b>	<b>520.76</b>
256	<b>520.87</b>	520.50	<b>520.95</b>	<b>520.91</b>	<b>520.53</b>	<b>520.61</b>	<b>521.62</b>	<b>520.87</b>	<b>521.28</b>
257	<b>521.03</b>	520.97	520.64	<b>520.74</b>	<b>520.75</b>	520.79	520.84	520.80	520.86
1e-320	<b>520.92</b>	<b>520.72</b>	<b>520.63</b>	521.20	<b>521.13</b>	<b>520.74</b>	<b>520.84</b>	<b>521.30</b>	521.24

Figure 1: Addition timing for double precision floats on Intel i7-2635QM

	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257	1e-320
	Cycle count								
0.0	<b>521.07</b>	520.49	520.84	<b>520.50</b>	520.69	<b>521.10</b>	520.85	<b>520.52</b>	<b>520.98</b>
1.0	520.74	520.67	520.84	<b>520.81</b>	520.67	520.93	<b>521.06</b>	520.70	<b>520.95</b>
1e10	<b>521.08</b>	<b>521.18</b>	<b>521.28</b>	520.81	520.96	<b>521.25</b>	<b>521.03</b>	<b>521.53</b>	<b>521.02</b>
1e+200	<b>521.14</b>	<b>521.01</b>	<b>521.34</b>	<b>521.24</b>	<b>520.98</b>	<b>521.16</b>	<b>521.16</b>	521.40	<b>521.02</b>
1e-300	<b>521.11</b>	<b>521.08</b>	<b>520.70</b>	<b>521.43</b>	<b>520.88</b>	<b>520.97</b>	<b>520.82</b>	<b>521.18</b>	<b>521.36</b>
1e-42	<b>521.02</b>	<b>521.45</b>	<b>521.22</b>	<b>520.94</b>	<b>520.89</b>	<b>520.93</b>	<b>521.08</b>	<b>520.86</b>	<b>521.01</b>
256	<b>521.29</b>	<b>521.12</b>	<b>521.20</b>	<b>521.21</b>	<b>521.14</b>	<b>521.33</b>	<b>521.05</b>	<b>521.01</b>	<b>520.68</b>
257	<b>521.06</b>	<b>521.18</b>	<b>521.21</b>	<b>521.26</b>	<b>520.95</b>	<b>521.33</b>	<b>521.12</b>	<b>520.99</b>	<b>520.96</b>
1e-320	<b>521.72</b>	<b>520.85</b>	<b>520.88</b>	520.69	<b>520.97</b>	<b>521.22</b>	<b>521.14</b>	<b>520.75</b>	<b>521.11</b>

Figure 2: Subtraction timing for double precision floats on Intel i7-2635QM

	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	446.26	446.14	446.23	446.32	446.11	446.36	446.35	446.40	446.44
1.0	446.36	446.86	<b>446.28</b>	446.44	446.32	446.11	446.22	446.33	446.45
1e10	446.35	<b>446.66</b>	446.22	<b>446.61</b>	446.14	446.14	446.46	446.17	446.28
1e+30	<b>446.46</b>	446.55	446.51	446.38	446.05	446.58	446.37	446.29	446.34
1e-30	446.10	446.50	446.48	446.33	446.14	<b>446.53</b>	446.37	445.95	446.30
1e-41	446.18	446.46	446.12	<b>446.37</b>	446.36	446.38	<b>446.69</b>	446.15	446.13
1e-42	446.18	<b>446.30</b>	<b>446.64</b>	446.57	<b>446.58</b>	446.49	446.19	446.33	<b>446.57</b>
256	446.16	446.57	446.49	445.98	446.56	<b>446.65</b>	446.08	446.10	446.39
257	446.55	446.43	446.43	446.23	446.33	446.58	<b>446.28</b>	<b>446.56</b>	446.34

Figure 3: Subtraction timing for single precision floats on Intel i7-2635QM

Dividend	Divisor								
	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	<b>743.77</b>	743.64	<b>744.30</b>	<b>752.20</b>	<b>748.22</b>	<b>748.79</b>	<b>748.16</b>	<b>747.0</b>	<b>747.0</b>
1.0	<b>743.71</b>	<b>744.04</b>	<b>1042.00</b>	<b>1041.40</b>	<b>1041.67</b>	<b>13553.86</b>	<b>13554.05</b>	<b>743.6</b>	<b>743.6</b>
1e10	<b>743.99</b>	<b>743.83</b>	<b>1041.31</b>	<b>1041.45</b>	<b>1041.71</b>	<b>13552.66</b>	<b>13552.75</b>	<b>744.2</b>	<b>744.2</b>
1e+30	<b>743.75</b>	<b>743.88</b>	<b>1041.59</b>	<b>1041.32</b>	<b>1041.68</b>	<b>13553.23</b>	<b>13560.52</b>	<b>743.8</b>	<b>743.8</b>
1e-30	<b>743.99</b>	<b>743.51</b>	<b>14963.49</b>	<b>1041.08</b>	<b>1041.02</b>	<b>13548.01</b>	<b>13549.04</b>	<b>743.4</b>	<b>743.4</b>
1e-41	<b>744.00</b>	<b>12957.77</b>	743.25	<b>743.72</b>	<b>13546.31</b>	<b>13548.18</b>	<b>13549.13</b>	<b>12956</b>	<b>12956</b>
1e-42	<b>744.01</b>	<b>12957.09</b>	<b>744.12</b>	<b>743.96</b>	<b>13551.12</b>	<b>13553.88</b>	<b>13552.97</b>	<b>12961</b>	<b>12961</b>
256	744.03	<b>743.83</b>	<b>1041.40</b>	<b>1041.46</b>	<b>1041.52</b>	<b>13556.12</b>	<b>13554.50</b>	<b>743.8</b>	<b>743.8</b>
257	<b>743.79</b>	<b>743.62</b>	<b>1041.36</b>	<b>1041.56</b>	<b>1041.80</b>	<b>13556.04</b>	<b>13552.14</b>	<b>744.0</b>	<b>744.0</b>

Figure 4: Division timing for single precision floats on Intel i7-2635QM

Operand	Cycle count
0.0	<b>744.80</b>
1.0	<b>744.49</b>
1e10	<b>1041.89</b>
1e+30	<b>1041.76</b>
1e-30	<b>1041.85</b>
1e-41	<b>13484.10</b>
1e-42	<b>13482.90</b>
256	<b>744.01</b>
257	<b>1041.79</b>

Figure 5: Square root timing for single precision floats on Intel i7-2635QM

	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257
	Cycle count							
0.0	<b>521.05</b>	<b>521.16</b>	<b>520.95</b>	<b>521.14</b>	<b>520.79</b>	<b>521.12</b>	<b>520.96</b>	<b>521.02</b>
1.0	<b>521.25</b>	<b>521.09</b>	<b>520.84</b>	<b>521.14</b>	520.64	<b>521.19</b>	<b>520.91</b>	<b>521.20</b>
1e10	<b>520.51</b>	<b>520.98</b>	<b>520.58</b>	520.34	<b>520.98</b>	<b>520.56</b>	<b>520.64</b>	<b>520.86</b>
1e+200	<b>520.89</b>	520.41	520.17	<b>520.49</b>	<b>521.07</b>	520.48	<b>520.69</b>	<b>520.10</b>
1e-300	520.50	520.50	520.28	<b>520.49</b>	<b>520.65</b>	520.18	520.36	520.34
1e-42	520.89	520.80	520.76	<b>520.51</b>	520.68	<b>520.36</b>	520.92	<b>520.91</b>
256	<b>520.95</b>	<b>520.84</b>	<b>520.90</b>	<b>520.93</b>	<b>521.07</b>	<b>520.83</b>	<b>521.02</b>	<b>521.30</b>
257	<b>520.80</b>	<b>520.73</b>	<b>520.78</b>	520.50	<b>520.88</b>	<b>521.06</b>	520.66	<b>520.93</b>
1e-320	<b>520.89</b>	<b>11544.22</b>	<b>11541.50</b>	<b>11540.84</b>	520.52	<b>520.63</b>	<b>11544.26</b>	<b>11544.96</b>

Figure 6: Multiplication timing for double precision floats on Intel i7-2635QM

	Divisor							
Dividend	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257
	Cycle count							
0.0	743.36	743.13	<b>744.15</b>	<b>743.76</b>	743.35	<b>743.54</b>	743.15	<b>743.7</b>
1.0	<b>743.93</b>	<b>743.40</b>	<b>1635.77</b>	<b>1636.21</b>	<b>1636.39</b>	<b>1635.85</b>	<b>743.43</b>	<b>1635.</b>
1e10	<b>743.91</b>	743.94	<b>1636.47</b>	<b>1636.91</b>	<b>1636.44</b>	<b>1636.70</b>	744.04	<b>1637.</b>
1e+200	<b>743.53</b>	<b>743.84</b>	<b>1636.38</b>	<b>1636.77</b>	<b>1636.35</b>	<b>1637.04</b>	<b>743.91</b>	<b>1636.</b>
1e-300	<b>748.79</b>	<b>743.99</b>	<b>16749.74</b>	<b>1636.57</b>	<b>1636.72</b>	<b>1636.56</b>	<b>743.84</b>	<b>1636.</b>
1e-42	743.96	<b>743.45</b>	<b>1636.20</b>	<b>1636.30</b>	<b>1635.65</b>	<b>1636.45</b>	<b>743.77</b>	<b>1636.</b>
256	<b>744.14</b>	<b>743.87</b>	<b>1636.12</b>	<b>1636.04</b>	<b>1636.18</b>	<b>1636.15</b>	<b>743.74</b>	<b>1635.</b>
257	<b>743.40</b>	<b>743.57</b>	<b>1635.48</b>	<b>1635.95</b>	<b>1637.25</b>	<b>1636.13</b>	<b>743.61</b>	<b>1635.</b>
1e-320	<b>743.69</b>	<b>12956.96</b>	<b>14740.13</b>	<b>747.41</b>	<b>14753.65</b>	<b>14741.18</b>	<b>12954.19</b>	<b>14745</b>

Figure 7: Division timing for double precision floats on Intel i7-2635QM

Operand	Cycle count
0.0	<b>744.28</b>
1.0	<b>743.87</b>
1e10	<b>1562.13</b>
1e+200	<b>1561.70</b>
1e-300	<b>1561.64</b>
1e-42	<b>1561.53</b>
256	<b>743.84</b>
257	<b>1562.18</b>
1e-320	<b>14518.42</b>

Figure 8: Square root timing for double precision floats on Intel i7-2635QM

	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	446.38	446.32	445.91	446.30	446.17	446.01	446.30	446.38	446.10
1.0	446.14	446.38	446.19	<b>446.30</b>	445.95	<b>446.25</b>	446.02	446.36	446.01
1e10	446.55	446.33	446.65	<b>447.11</b>	446.25	446.55	446.49	446.59	446.40
1e+30	446.13	446.12	446.28	<b>447.07</b>	<b>449.83</b>	<b>449.37</b>	<b>448.04</b>	446.38	446.36
1e-30	445.89	446.33	446.50	446.20	446.06	<b>446.51</b>	446.20	446.28	446.25
1e-41	446.33	446.14	<b>446.33</b>	446.24	445.90	446.37	446.31	<b>446.27</b>	446.16
1e-42	446.32	446.28	<b>446.40</b>	446.06	446.49	446.23	446.44	446.13	446.16
256	446.15	<b>446.34</b>	446.25	446.12	<b>446.60</b>	<b>446.57</b>	446.32	445.99	446.14
257	<b>446.40</b>	446.39	446.30	<b>446.35</b>	446.01	<b>446.68</b>	446.02	<b>446.30</b>	446.45

Figure 9: Addition timing for single precision floats on Intel i7-2635QM

	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256
	Cycle count							
0.0	446.17	446.35	446.37	<b>446.38</b>	446.35	446.29	446.02	446.38
1.0	446.39	446.33	446.37	446.25	446.50	<b>11544.46</b>	<b>11543.49</b>	446.18
1e10	<b>446.45</b>	446.47	446.40	446.32	446.08	<b>11543.50</b>	<b>11545.08</b>	446.05
1e+30	446.34	<b>446.36</b>	446.06	446.31	446.27	<b>11543.52</b>	<b>11542.73</b>	446.45
1e-30	446.40	446.36	446.42	<b>446.49</b>	<b>446.13</b>	446.39	<b>446.63</b>	446.24
1e-41	446.46	<b>11540.01</b>	<b>11534.95</b>	<b>11543.38</b>	<b>446.61</b>	446.15	446.26	<b>11539.66</b>
1e-42	446.39	<b>11538.60</b>	<b>11539.63</b>	<b>11541.16</b>	<b>446.49</b>	<b>447.02</b>	446.49	<b>11540.17</b>
256	446.16	446.21	446.32	446.48	446.08	<b>11543.83</b>	<b>11541.95</b>	446.23
257	446.11	446.49	446.26	446.30	<b>446.35</b>	<b>11540.68</b>	<b>11541.46</b>	446.31

Figure 10: Multiplication timing for single precision floats on Intel i7-2635QM

Intel i7-2635QM+FTZ/DAZ

	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257	1e-320
	Cycle count								
0.0	<b>446.98</b>	446.95	446.76	<b>446.88</b>	<b>446.99</b>	<b>447.06</b>	<b>447.30</b>	<b>446.55</b>	<b>447.34</b>
1.0	<b>446.49</b>	446.50	<b>448.56</b>	<b>447.12</b>	<b>452.96</b>	<b>448.60</b>	<b>450.31</b>	<b>450.17</b>	<b>448.19</b>
1e10	446.83	<b>446.79</b>	<b>447.17</b>	<b>446.83</b>	<b>447.24</b>	<b>447.17</b>	<b>446.93</b>	<b>447.02</b>	<b>447.45</b>
1e+200	<b>447.22</b>	446.69	<b>446.59</b>	<b>446.93</b>	<b>446.97</b>	<b>447.24</b>	<b>446.85</b>	<b>446.70</b>	<b>446.79</b>
1e-300	<b>446.61</b>	<b>446.98</b>	<b>446.88</b>	<b>446.81</b>	<b>447.09</b>	<b>447.30</b>	<b>446.88</b>	<b>446.70</b>	<b>447.07</b>
1e-42	<b>449.25</b>	<b>450.50</b>	<b>446.63</b>	446.83	<b>446.84</b>	<b>446.93</b>	<b>446.95</b>	<b>446.96</b>	<b>446.96</b>
256	<b>446.74</b>	<b>446.94</b>	<b>447.27</b>	<b>446.93</b>	446.62	<b>446.89</b>	<b>447.10</b>	<b>447.05</b>	446.89
257	<b>447.01</b>	446.93	<b>448.75</b>	<b>448.49</b>	<b>449.12</b>	<b>450.54</b>	446.50	<b>448.06</b>	<b>449.69</b>
1e-320	446.76	447.10	<b>446.65</b>	<b>446.77</b>	<b>447.07</b>	447.23	<b>447.16</b>	<b>446.85</b>	446.93

Figure 11: Addition timing for double precision floats on Intel i7-2635QM+FTZ/DAZ

	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257	1e-320
	Cycle count								
0.0	<b>446.71</b>	<b>446.90</b>	446.78	<b>446.70</b>	<b>446.91</b>	<b>446.74</b>	<b>447.01</b>	<b>447.06</b>	446.40
1.0	<b>446.84</b>	<b>447.39</b>	<b>447.26</b>	<b>446.77</b>	<b>447.38</b>	<b>447.01</b>	<b>446.68</b>	<b>446.86</b>	<b>447.17</b>
1e10	<b>447.05</b>	<b>446.74</b>	<b>446.50</b>	446.94	<b>447.21</b>	<b>446.75</b>	<b>447.63</b>	446.66	<b>446.83</b>
1e+200	<b>446.56</b>	<b>447.24</b>	<b>447.16</b>	447.03	<b>447.71</b>	<b>446.62</b>	<b>446.99</b>	<b>447.22</b>	<b>446.54</b>
1e-300	<b>446.85</b>	<b>446.87</b>	<b>446.99</b>	<b>446.46</b>	<b>447.63</b>	<b>446.79</b>	<b>446.88</b>	<b>446.36</b>	<b>446.76</b>
1e-42	<b>447.24</b>	<b>446.90</b>	<b>446.90</b>	<b>447.28</b>	<b>447.55</b>	<b>446.83</b>	<b>447.01</b>	<b>446.60</b>	<b>447.06</b>
256	<b>446.60</b>	446.53	<b>446.95</b>	<b>447.13</b>	446.65	<b>447.00</b>	446.32	<b>447.29</b>	<b>446.71</b>
257	<b>447.83</b>	<b>446.89</b>	<b>446.78</b>	<b>446.65</b>	<b>446.71</b>	<b>447.57</b>	<b>446.96</b>	446.30	<b>447.09</b>
1e-320	<b>446.90</b>	<b>447.18</b>	<b>447.05</b>	<b>447.45</b>	<b>446.62</b>	<b>446.90</b>	<b>447.24</b>	446.97	<b>446.81</b>

Figure 12: Subtraction timing for double precision floats on Intel i7-2635QM+FTZ/DAZ

	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	<b>521.29</b>	<b>521.46</b>	<b>521.58</b>	<b>521.36</b>	<b>521.61</b>	<b>521.59</b>	<b>521.65</b>	<b>521.62</b>	<b>521.44</b>
1.0	<b>522.00</b>	<b>522.23</b>	<b>521.52</b>	<b>521.51</b>	<b>522.02</b>	<b>521.99</b>	<b>521.86</b>	<b>522.22</b>	<b>521.15</b>
1e10	<b>521.64</b>	<b>521.31</b>	<b>521.63</b>	<b>521.36</b>	521.62	<b>521.11</b>	521.08	521.79	<b>521.33</b>
1e+30	<b>521.44</b>	<b>521.38</b>	521.51	<b>521.16</b>	<b>521.42</b>	<b>521.72</b>	521.27	<b>520.91</b>	521.21
1e-30	<b>521.24</b>	<b>520.96</b>	<b>521.38</b>	<b>521.47</b>	<b>521.42</b>	<b>521.48</b>	<b>521.35</b>	521.16	521.69
1e-41	<b>521.57</b>	<b>521.01</b>	<b>521.49</b>	<b>521.25</b>	521.37	520.98	<b>521.80</b>	<b>521.29</b>	521.23
1e-42	521.07	<b>523.43</b>	<b>521.28</b>	<b>521.20</b>	<b>521.79</b>	<b>521.20</b>	<b>520.99</b>	521.27	<b>521.11</b>
256	<b>521.35</b>	<b>520.96</b>	<b>521.59</b>	520.85	<b>521.28</b>	<b>521.29</b>	<b>521.05</b>	<b>521.10</b>	521.29
257	<b>521.26</b>	<b>521.35</b>	<b>521.22</b>	<b>521.40</b>	<b>521.06</b>	<b>521.23</b>	<b>521.39</b>	<b>521.55</b>	<b>521.43</b>

Figure 13: Subtraction timing for single precision floats on Intel i7-2635QM+FTZ/DAZ

	Divisor								
Dividend	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	<b>744.98</b>	<b>744.56</b>	<b>744.68</b>	<b>744.55</b>	<b>744.69</b>	<b>744.61</b>	<b>744.91</b>	<b>744.40</b>	<b>744.27</b>
1.0	<b>744.35</b>	<b>744.94</b>	<b>1091.75</b>	<b>1092.14</b>	<b>1091.78</b>	<b>745.22</b>	<b>744.22</b>	<b>744.31</b>	<b>1092.05</b>
1e10	<b>744.87</b>	<b>744.26</b>	<b>1091.40</b>	<b>1092.49</b>	<b>1091.29</b>	<b>744.40</b>	<b>744.51</b>	<b>744.87</b>	<b>1092.75</b>
1e+30	<b>744.56</b>	<b>744.85</b>	<b>1091.79</b>	<b>1092.18</b>	<b>1091.75</b>	<b>744.70</b>	<b>745.23</b>	<b>744.68</b>	<b>1092.18</b>
1e-30	<b>744.57</b>	<b>748.55</b>	<b>1092.29</b>	<b>1092.26</b>	<b>1092.58</b>	<b>744.41</b>	<b>744.66</b>	<b>744.32</b>	<b>1091.91</b>
1e-41	<b>744.87</b>	<b>744.64</b>	<b>744.87</b>	<b>744.60</b>	<b>744.87</b>	<b>744.98</b>	<b>744.47</b>	<b>744.52</b>	<b>744.88</b>
1e-42	<b>744.11</b>	<b>744.25</b>	<b>744.60</b>	<b>744.46</b>	<b>745.28</b>	<b>745.39</b>	<b>744.32</b>	<b>744.86</b>	<b>744.61</b>
256	<b>744.39</b>	<b>744.92</b>	<b>1091.86</b>	<b>1092.31</b>	<b>1092.38</b>	<b>744.32</b>	<b>744.59</b>	745.02	<b>1092.15</b>
257	<b>744.52</b>	<b>744.79</b>	<b>1092.54</b>	<b>1091.80</b>	<b>1092.00</b>	<b>744.16</b>	<b>744.79</b>	<b>744.37</b>	<b>1092.64</b>

Figure 14: Division timing for single precision floats on Intel i7-2635QM+FTZ/DAZ

Operand	Cycle count
0.0	<b>0.00</b>
1.0	<b>745.08</b>
1e10	<b>1042.30</b>
1e+30	<b>1042.72</b>
1e-30	<b>1042.53</b>
1e-41	<b>744.53</b>
1e-42	<b>744.55</b>
256	<b>744.79</b>
257	<b>1042.76</b>

Figure 15: Square root timing for single precision floats on Intel i7-2635QM+FTZ/DAZ

	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257	1e-320
	Cycle count								
0.0	<b>446.91</b>	447.00	<b>447.07</b>	<b>447.47</b>	<b>446.57</b>	<b>446.80</b>	<b>447.09</b>	<b>447.21</b>	<b>446.79</b>
1.0	<b>447.00</b>	<b>446.93</b>	<b>446.92</b>	446.50	<b>447.25</b>	<b>447.32</b>	<b>446.77</b>	<b>447.36</b>	<b>446.85</b>
1e10	<b>447.17</b>	<b>447.10</b>	<b>447.23</b>	<b>446.49</b>	<b>446.70</b>	<b>446.68</b>	<b>447.11</b>	<b>446.81</b>	446.51
1e+200	<b>446.74</b>	<b>447.05</b>	<b>446.73</b>	<b>446.65</b>	<b>446.96</b>	<b>446.78</b>	<b>446.91</b>	<b>446.68</b>	<b>446.57</b>
1e-300	<b>447.23</b>	<b>447.05</b>	446.59	<b>446.76</b>	446.81	<b>447.04</b>	<b>447.09</b>	<b>446.89</b>	<b>447.32</b>
1e-42	<b>446.74</b>	<b>446.89</b>	<b>447.31</b>	<b>446.98</b>	<b>447.11</b>	446.38	<b>446.98</b>	<b>446.70</b>	<b>446.67</b>
256	<b>446.95</b>	<b>447.34</b>	<b>447.21</b>	<b>446.86</b>	<b>446.79</b>	<b>447.40</b>	<b>447.31</b>	446.90	<b>447.31</b>
257	<b>446.98</b>	<b>447.16</b>	<b>447.07</b>	<b>447.05</b>	<b>447.09</b>	<b>446.75</b>	<b>446.82</b>	<b>447.33</b>	<b>446.96</b>
1e-320	<b>446.66</b>	<b>446.87</b>	<b>447.26</b>	<b>447.33</b>	<b>446.98</b>	446.54	<b>446.80</b>	<b>446.96</b>	<b>447.06</b>

Figure 16: Multiplication timing for double precision floats on Intel i7-2635QM+FTZ/DAZ

Dividend	Divisor								
	0.0	1.0	1e10	1e+200	1e-300	1e-42	256	257	1e-320
	Cycle count								
0.0	<b>744.68</b>	<b>744.59</b>	<b>744.60</b>	<b>744.30</b>	<b>744.76</b>	<b>744.77</b>	<b>744.56</b>	<b>744.15</b>	<b>744.00</b>
1.0	<b>745.19</b>	<b>744.84</b>	<b>1639.76</b>	<b>1640.05</b>	<b>1640.38</b>	<b>1639.50</b>	<b>744.75</b>	<b>1639.47</b>	<b>744.00</b>
1e10	<b>744.70</b>	<b>744.12</b>	<b>1639.53</b>	<b>1639.57</b>	<b>1638.79</b>	<b>1639.94</b>	<b>744.73</b>	<b>1639.90</b>	<b>744.00</b>
1e+200	<b>744.39</b>	<b>745.18</b>	<b>1639.29</b>	<b>1639.88</b>	<b>1639.35</b>	<b>1639.94</b>	<b>744.84</b>	<b>1639.38</b>	<b>744.00</b>
1e-300	<b>744.61</b>	<b>744.34</b>	<b>1639.98</b>	<b>1639.27</b>	<b>1639.14</b>	<b>1639.87</b>	<b>744.63</b>	<b>1639.29</b>	<b>744.00</b>
1e-42	<b>744.92</b>	<b>745.15</b>	<b>1639.46</b>	<b>1639.71</b>	<b>1640.50</b>	<b>1640.26</b>	<b>744.73</b>	<b>1640.55</b>	<b>744.00</b>
256	<b>744.29</b>	<b>745.32</b>	<b>1638.87</b>	<b>1639.60</b>	<b>1640.13</b>	<b>1640.80</b>	<b>744.74</b>	<b>1639.93</b>	<b>745.00</b>
257	<b>744.14</b>	<b>744.75</b>	<b>1639.30</b>	<b>1639.13</b>	<b>1639.61</b>	<b>1639.87</b>	<b>745.10</b>	<b>1640.25</b>	<b>744.00</b>
1e-320	<b>744.17</b>	<b>744.88</b>	<b>745.08</b>	<b>744.82</b>	<b>744.42</b>	<b>744.53</b>	<b>744.18</b>	<b>745.25</b>	<b>745.00</b>

Figure 17: Division timing for double precision floats on Intel i7-2635QM+FTZ/DAZ

Operand	Cycle count
0.0	<b>744.66</b>
1.0	<b>744.70</b>
1e10	<b>1564.07</b>
1e+200	<b>1564.43</b>
1e-300	<b>1563.41</b>
1e-42	<b>1564.71</b>
256	<b>745.18</b>
257	<b>1562.78</b>
1e-320	<b>745.62</b>

Figure 18: Square root timing for double precision floats on Intel i7-2635QM+FTZ/DAZ

	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	<b>520.89</b>	520.68	<b>521.14</b>	<b>521.07</b>	<b>521.26</b>	521.09	<b>521.12</b>	<b>521.18</b>	<b>521.00</b>
1.0	<b>521.65</b>	<b>521.47</b>	<b>521.27</b>	<b>521.15</b>	<b>520.99</b>	<b>521.44</b>	<b>520.87</b>	<b>520.76</b>	<b>521.28</b>
1e10	<b>520.85</b>	<b>521.03</b>	<b>521.61</b>	<b>521.35</b>	<b>521.38</b>	520.92	521.26	<b>521.98</b>	520.95
1e+30	<b>521.46</b>	520.94	521.33	521.15	<b>520.74</b>	<b>521.35</b>	<b>521.24</b>	<b>520.98</b>	<b>520.93</b>
1e-30	<b>521.40</b>	<b>521.19</b>	<b>521.16</b>	<b>521.18</b>	<b>521.13</b>	<b>521.03</b>	<b>521.10</b>	<b>521.40</b>	<b>521.25</b>
1e-41	<b>521.27</b>	521.14	<b>520.99</b>	<b>521.65</b>	521.06	521.31	<b>521.63</b>	<b>521.25</b>	520.79
1e-42	<b>521.43</b>	<b>521.27</b>	<b>521.06</b>	<b>520.92</b>	521.45	<b>521.61</b>	<b>520.75</b>	<b>521.43</b>	<b>521.08</b>
256	520.68	521.39	<b>521.20</b>	<b>522.06</b>	<b>520.86</b>	<b>521.30</b>	<b>521.29</b>	<b>520.92</b>	<b>521.76</b>
257	<b>521.54</b>	<b>520.95</b>	<b>521.34</b>	<b>521.28</b>	520.97	520.70	<b>521.21</b>	521.75	<b>521.39</b>

Figure 19: Addition timing for single precision floats on Intel i7-2635QM+FTZ/DAZ

	0.0	1.0	1e10	1e+30	1e-30	1e-41	1e-42	256	257
	Cycle count								
0.0	<b>521.65</b>	<b>521.28</b>	<b>521.35</b>	<b>522.01</b>	<b>521.38</b>	<b>521.38</b>	<b>521.30</b>	<b>521.16</b>	<b>521.34</b>
1.0	<b>521.31</b>	<b>521.29</b>	<b>521.16</b>	<b>521.34</b>	<b>521.70</b>	<b>521.35</b>	<b>521.68</b>	<b>521.35</b>	521.38
1e10	<b>520.87</b>	<b>521.40</b>	<b>521.42</b>	<b>521.26</b>	520.98	<b>521.26</b>	<b>521.52</b>	<b>521.63</b>	<b>521.54</b>
1e+30	<b>521.79</b>	<b>521.43</b>	<b>521.81</b>	521.05	<b>521.39</b>	<b>521.16</b>	<b>521.01</b>	<b>521.10</b>	521.38
1e-30	520.90	<b>521.43</b>	520.86	<b>521.16</b>	<b>521.16</b>	<b>521.72</b>	<b>521.54</b>	521.00	<b>521.32</b>
1e-41	<b>521.01</b>	<b>521.26</b>	<b>521.08</b>	<b>521.68</b>	<b>521.42</b>	<b>521.68</b>	<b>521.17</b>	<b>521.59</b>	<b>521.15</b>
1e-42	<b>521.34</b>	<b>521.91</b>	<b>522.00</b>	<b>521.28</b>	<b>521.63</b>	<b>521.23</b>	<b>521.94</b>	<b>521.67</b>	<b>521.25</b>
256	<b>521.74</b>	<b>521.14</b>	<b>521.44</b>	<b>522.15</b>	521.45	<b>521.41</b>	<b>521.12</b>	<b>521.44</b>	<b>521.72</b>
257	<b>521.65</b>	<b>521.44</b>	<b>521.09</b>	<b>520.98</b>	<b>521.63</b>	<b>521.58</b>	<b>521.56</b>	<b>521.40</b>	<b>521.50</b>

Figure 20: Multiplication timing for single precision floats on Intel i7-2635QM+FTZ/DAZ