Case: h = 0 mod 3

Baseline Riesel test numbers

h * 2^n-1

[n, n+1000]		h = 3*base_n [h, h+6000]	
base_n	n_beyond	hase_h	h_beyond
4194304	4195304	12582913	12588913
4331116	4332116	12993349	12999349
4885002	4886002	14655007	14661007
5209020	5210020	15627061	15633061
6286862	6287862	18860587	18866587
7676777	7677777	23030331	23036331
8388608	8389608	25165825	25171825
Standard Deviation			
Average Jacobi ops to find 1st v(1)			

Baseline No Jacobi cache

Average Jacobi ops to find 1st v(1)

search starting at 3		sorted by v(1)		reverse sort by freq		
integer search 1st v(1)	odd search 1st v(1)	known 1st v(1)	odd known 1st v(1)	known 1st v(1)	odd known 1st v(1)	validated prime 1st v(1)
7.395	4.697	3.999	3.999	3.999	3.999	3.999
7.361	4.681	3.990	3.990	3.990	3.990	3.990
7.401	4.701	4.003	4.003	4.003	4.003	4.003
7.397	4.698	4.000	4.000	4.000	4.000	4.000
7.411	4.705	4.004	4.004	4.004	4.004	4.004
7.407	4.704	4.002	4.002	4.002	4.002	4.002
7.388	4.694	3.997	3.997	3.997	3.997	3.997
0.017	0.008	0.005	0.005	0.005	0.005	0.005
7.394	4.697	3.999	3.999	3.999	3.999	3.999

Baseline Jacobi cache

Average Jacobi ops to find 1st v(1)

search starting at 3		sorted by v(1)		reverse sort by freq		
integer search 1st v(1)	odd search 1st v(1)	known 1st v(1)	odd known 1st v(1)	known 1st v(1)	odd known 1st v(1)	validated prime 1st v(1)
5.948	3.848	3.669	3.669	3.669	3.669	3.669
5.931	3.841	3.663	3.663	3.663	3.663	3.663
5.954	3.851	3.673	3.673	3.673	3.673	3.673
5.947	3.849	3.672	3.672	3.672	3.672	3.672
5.952	3.851	3.673	3.673	3.673	3.673	3.673
5.953	3.852	3.672	3.672	3.672	3.672	3.672
5.941	3.846	3.668	3.668	3.668	3.668	3.669
0.008	0.004	0.004	0.004	0.004	0.004	0.004
5.947	3.848	3.670	3.670	3.670	3.670	3.670

Baseline Cache advantage

Jacobi cache / No Jacobi cache

search starting at 3		sorted by v(1)		reverse sort by freq		
integer search 1st v(1)	odd search 1st v(1)	known 1st v(1)	odd known 1st v(1)	known 1st v(1)	odd known 1st v(1)	validated prime 1st v(1)
1.2433	1.2206	1.0899	1.0899	1.0899	1.0899	1.0899
1.2411	1.2187	1.0893	1.0893	1.0893	1.0893	1.0893
1.2430	1.2207	1.0898	1.0898	1.0898	1.0898	1.0898
1.2438	1.2206	1.0893	1.0893	1.0893	1.0893	1.0893
1.2451	1.2218	1.0901	1.0901	1.0901	1.0901	1.0901
1.2442	1.2212	1.0899	1.0899	1.0899	1.0899	1.0899
1.2436	1.2205	1.0897	1.0897	1.0897	1.0897	1.0894
0.0012	0.0009	0.0003	0.0003	0.0003	0.0003	0.0003
1.2435	1.2206	1.0897	1.0897	1.0897	1.0897	1.0897

Known 1st v(1) sorted by v(1) - even in BOLD	3, 5, 9, 11, 15, 17, 21, 27, 29, 35, 39, 41, 45, 51, 57, 59, 65, 69, 71, 81
Odd Known 1st v(1) sorted by v(1)	3, 5, 9, 11, 15, 17, 21, 27, 29, 35, 39, 41, 45, 51, 57, 59, 65, 69, 71, 81
Known 1st v(1) rev sorted by freq - out of order in red	3, 5, 9, 11, 15, 17, 21, 27, 29, 35, 39, 41, 45, 51, 57, 59, 65, 69, 71, 81
Odd Known 1st v(1) rev sorted by freq - out of order in red	3, 5, 9, 11, 15, 17, 21, 27, 29, 35, 39, 41, 45, 51, 57, 59, 65, 69, 71, 81
Validated primes 1st v(1) rev sorted by freq - out of order in red	3, 5, 9, 11, 15, 17, 21, 27, 29, 35, 39, 41, 45, 51, 57, 59, 65, 69, 81
Sample Jacobi line	12582927 4194304 +++++++++++++++++++++++++++++++++-+++++-++++++-+++-++++++++++-++-++++++++-+---++++-++++++-++++++---++-++++++++++++++-+-+++++-++++++-++++-++++++++++++--+++-+--++++++-+--+++++++++-++++-++++++-+ ++++++---+-++++++-++-+-+++++++++++++++-+-+-+-+++--++-++++++++---+-++++++++-++-++++++

More Riesel test numbers

h * 2^n-1

[n, n+1000]		h = 3*base_n [h, h+6000]	
base_n	n_beyond	hase_h	h_beyond
1391827	1392827	4175481	4181481
3727058	3728058	11181175	11187175
5718259	5719259	17154777	17160777
12776050	12777050	38328151	38334151
23059373	23060373	69178119	69184119
56126460	56127460	168379381	168385381
132174368	132175368	396523105	396529105
Standard Deviation			
Average Jacobi ops to find 1st v(1)			

More No Jacobi cache

Average Jacobi ops to find 1st v(1)

search starting at 3		sorted by v(1)		reverse sort by freq		
integer search 1st v(1)	odd search 1st v(1)	known 1st v(1)	odd known 1st v(1)	known 1st v(1)	odd known 1st v(1)	validated prime 1st v(1)
7.383	4.691	3.995	3.995	3.995	3.995	3.995
7.428	4.714	4.008	4.008	4.008	4.008	4.009
7.403	4.701	4.000	4.000	4.000	4.000	4.000
7.437	4.719	4.011	4.011	4.011	4.011	4.011
7.361	4.680	3.988	3.988	3.988	3.988	3.988
7.399	4.699	3.999	3.999	3.999	3.999	3.999
7.408	4.704	4.001	4.001	4.001	4.001	4.001
0.026	0.013	0.008	0.008	0.008	0.008	0.008
7.403	4.701	4.000	4.000	4.000	4.000	4.000

More Jacobi cache

Average Jacobi ops to find 1st v(1)

search starting at 3		sorted by v(1)		reverse sort by freq		
integer search 1st v(1)	odd search 1st v(1)	known 1st v(1)	odd known 1st v(1)	known 1st v(1)	odd known 1st v(1)	validated prime 1st v(1)
5.941	3.846	3.667	3.667	3.667	3.667	3.667
5.963	3.856	3.676	3.676	3.676	3.676	3.676
5.947	3.848	3.670	3.670	3.670	3.670	3.670
5.966	3.858	3.678	3.678	3.678	3.678	3.678
5.927	3.839	3.661	3.661	3.661	3.661	3.661
5.945	3.848	3.670	3.670	3.670	3.670	3.670
5.951	3.850	3.670	3.670	3.670	3.670	3.670
0.013	0.006	0.006	0.006	0.006	0.006	0.006
5.949	3.849	3.670	3.670	3.670	3.670	3.670

More Cache advantage

Jacobi cache / No Jacobi cache

search starting at 3		sorted by v(1)		reverse sort by freq		
integer search 1st v(1)	odd search 1st v(1)	known 1st v(1)	odd known 1st v(1)	known 1st v(1)	odd known 1st v(1)	validated prime 1st v(1)
1.2427	1.2197	1.0894	1.0894	1.0894	1.0894	1.0894
1.2457	1.2225	1.0903	1.0903	1.0903	1.0903	1.0906
1.2448	1.2217	1.0899	1.0899	1.0899	1.0899	1.0899
1.2466	1.2232	1.0905	1.0905	1.0905	1.0905	1.0905
1.2419	1.2191	1.0893	1.0893	1.0893	1.0893	1.0893
1.2446	1.2212	1.0896	1.0896	1.0896	1.0896	1.0896
1.2448	1.2218	1.0902	1.0902	1.0902	1.0902	1.0902
0.0016	0.0015	0.0005	0.0005	0.0005	0.0005	0.0005
1.2444	1.2213	1.0899	1.0899	1.0899	1.0899	1.0899

Small Validated Riesel primes	10.139	6.069	4.921	4.921	4.921	4.921	4.921
Large Validated Riesel primes	10.615	6.308	5.074	5.074	5.074	5.074	5.074
All Validated Riesel primes	10.404	6.202	5.006	5.006	5.006	5.006	5.006

Small Validated Riesel primes	7.637	4.660	4.417	4.417	4.417	4.417	4.417
Large Validated Riesel primes	7.910	4.792	4.537	4.537	4.537	4.537	4.537
All Validated Riesel primes	7.789	4.733	4.484	4.484	4.484	4.484	4.484

Small Validated Riesel primes	1.3276	1.3024	1.1141	1.1141	1.1141	1.1141	1.1141
Large Validated Riesel primes	1.3420	1.3164	1.1184	1.1184	1.1184	1.1184	1.1184
All Validated Riesel primes	1.3357	1.3104	1.1145	1.1207	1.1159	1.1174	1.1164

Exceptions to the v(1) search tables

h	n	first v(1)
4177635	1392575	77
11184255	3727349	99
17156565	5718540	77
396528345	132175294	99