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| Calculate Z /\* Variables \*/  Gauss g  Var wk, xk, yk, zk;  Var zk = (beta0) + (wk\*beta1) + (xk\*beta1) + (yk\*beta2) + (zk\*beta3);  Return zk; | |  |  |  |  | | --- | --- | --- | --- | | Step | input | zk | Output | | 1 | g()=    Wk=650  Xk=3000  Yk=150 | zk = 6.71+0.0784\*650+0.0150\*3,000+0.2461\*155  = 140.902 | 140.902 hours | |

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| Deviation2 -> result() Var wk, xk, yk;  HisotircData data;  Gauss betas;  Var N = data.size;  Var sum = 0;  Var firstElement = (1/(N - 4));  Var w = data.getLetterList(‘w’);  Var x = data.getLetterList(‘x’);  Var y = data.getLetterList(‘y’);  Var z = data.getLetterList(‘z’);  For i=0 -> N-1  Sum +=pow()-> z[i] - betas.getBeta(0) - ( betas.getBeta(1)\*w[i] ) - ( betas.getBeta(2)\*x[i] ) - ( betas.getBeta(3)\*y[i] );  Return sqrt( firstElement \* sum ); | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Step | input | sum | firstElement | Output | | 1 | g()=    Wk=650  Xk=3000  Yk=150  n=6 | 79.07709609 |  |  | | 1.2 |  | 25642.31775 |  |  | | 1.3 |  | 35655.32909 |  |  | | 1.4 |  | 38544.81555 |  |  | | 1.5 |  | 57588.81555 |  |  | | 1.6 |  | 61309.81555 |  |  | | 2 |  |  | 0.5 |  | | 3 |  |  |  | 175.0854299 |   W[ 1142, 863, 1065, 554, 983, 256 ]  X[ 1060, 995, 3205, 120, 2896, 485 ]  Y[ 325, 98, 23, 0, 120, 88 ]  Z[ 201, 98, 162, 54, 138, 61 ] |

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| Range -> result() SearchXValue x;  Deviation2 sigma;  HIstoricData data;  Gauss gauss;  Var result  Var wk  Var xk  Var yk  Var N = data.size;  For i to N  //The same for each letter  wSub = pow(data.getLetterList(‘w’) - data.getAvg(‘w’), 2)  Var part3 = 1 + (1/N) +( pow(wk-data.getAvg(‘w’),2) /wSub ) + x... + y...;  Return x.Search(0.35, N-4) \* sigma.result() \* sqrt( part3 ) ; | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Step | input | sum | firstElement | Output | | 1 | g()=    Wk=650  Xk=3000  Yk=150  n=6 | 79.07709609 |  |  | | 1.2 |  | 25642.31775 |  |  | | 1.3 |  | 35655.32909 |  |  | | 1.4 |  | 38544.81555 |  |  | | 1.5 |  | 57588.81555 |  |  | | 1.6 |  | 61309.81555 |  |  | | 2 |  |  | 0.5 |  | | 3 |  |  |  | 175.0854299 |   W[ 1142, 863, 1065, 554, 983, 256 ]  X[ 1060, 995, 3205, 120, 2896, 485 ]  Y[ 325, 98, 23, 0, 120, 88 ]  Z[ 201, 98, 162, 54, 138, 61 ] |