

intel c vectorization, -opt-report

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[arnoldg@iforge grid]$ mpiicc -I../include -c -opt-report HPL_sum.c
...
HPO Vectorizer Report (HPL_sum)

HPL_sum.c(107:7-107:7):VEC:HPL_sum: LOOP WAS VECTORIZED
loop skipped: multiversioned
HPL_sum.c(113:7-113:7):VEC:HPL_sum: LOOP WAS VECTORIZED
loop skipped: multiversioned
...
[arnoldg@iforge grid]$ cat -n HPL_sum.c
...
103     if( DTYPE == HPL_INT )
104     {
105         const int      * a = (const int *) (IN);
106         int             * b = (int *) (INOUT);
107         for( i = 0; i < N; i++ ) b[i] += a[i];
108     }
109     else
110     {
111         const double    * a = (const double *) (IN);
112         double           * b = (double *) (INOUT);
113         for( i = 0; i < N; i++ ) b[i] += a[i];
114     }
...
[arnoldg@iforge grid]$ mpiicc -I../include -c -opt-report HPL_max.c
HPO VECTORIZER REPORT (HPL_max) LOG OPENED ON Wed May 30 14:35:33 2012

<HPL_max.c;-1:-1:hpo_vectorization;HPL_max;0>
HPO Vectorizer Report (HPL_max)

HPL_max.c(107:7-107:7):VEC:HPL_max: loop was not vectorized: existence of vector dependence
HPL_max.c(113:7-113:7):VEC:HPL_max: loop was not vectorized: existence of vector dependence
...
[arnoldg@iforge grid]$ cat -n HPL_max.c
...
103     if( DTYPE == HPL_INT )
104     {
105         const int      * a = (const int *) (IN);
106         int             * b = (int *) (INOUT);
107         for( i = 0; i < N; i++ ) b[i] = Mmax( a[i], b[i] );
108     }
109     else
110     {
111         const double    * a = (const double *) (IN);
112         double           * b = (double *) (INOUT);
113         for( i = 0; i < N; i++ ) b[i] = Mmax( a[i], b[i] );
114     }
...

```