**Pseudocode**

-Get the users input and set the thread count, chunk size and n.

-Create the randomized vectors (B\_copy and B) and matrices (A\_copy and A)…we need 2 of each so we have copies to calculate the l2 norm later.

for i = 0 to n … SERIAL

largest = largest value in column i for every row greater than i of the A matrix…switch this row (A[largest]) with the row A[i]…also, switch B[largest] with B[i]

for r = i + 1 to n … PARALLEL

multiplier = A[r][i] / A[i][i]

for k = i + 1 to n + 1 … SERIAL

A[r][k] = A[r][k] – (A[i][k] \* multiplier);

endFor(k)

B[r] = B[r] – (B[i] \* multiplier);

endFor(r)

endFor(i)

-Create zero initialized x vector to store the x values we will soon calculate

for i = n -1 to 0 … SERIAL

x[i] = B[i]/A[i][i]

for j = i-1 to 0 … PARALLEL

A[j][i] = A[j][i] \* x[i];

B[j] = B[j] - A[j][i];

endFor(j)

endFor(i)