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061:         ## add total signal and no. of hits
+062:     for j in range(nTime):
+063:         if mask[i, j]:
+064:             k = pointing[j]
+065:             bins_signal[nBin * i + k] += input_array[i, j]
+066:             bins_hit[nBin * i + k] += 1
067:             # the following allows SIMD. But Intel vectorization report says
068:             # TODO: try again on KNL
069:             # k = pointing[j]
070:             # bins_signal[nBin * i + k] += input_array[i, j] * mask[i, j]
071:             # bins_hit[nBin * i + k] += mask[i, j]
072:
073:     ## average signal
074:     ## SIMD checked
+075:     for k in range(nPix):
076:         # won't be 0 since it is initialized as EPSILON
077:         # if bins_hit[nBin * i + k] != 0:
+078:         bins_signal[nBin * i + k] /= bins_hit[nBin * i + k]
079:
080:     # subtraction
+081:     if groundmap:
082:         # no SIMD: report says vectorization here is inefficient
+083:         for j in range(nTime):
084:             input_array[i, j] = bins_signal[nBin * i + pointing[j]]
085:     else:
086:         # no SIMD: report says vectorization here is inefficient
+087:         for j in range(nTime):
088:             input_array[i, j] -= bins_signal[nBin * i + pointing[j]]
+089: free(bins_signal)
+090: free(bins_hit)

```