

```
 $sum \leftarrow 0; \quad cs \leftarrow 0; \quad ccs \leftarrow 0;$   
for  $i \in 0..n - 1$  do  
   $t \leftarrow sum + x[i];$   
  if  $|sum| \geq |x[i]|$  then  $c \leftarrow (sum - t) + x[i];$   
  else  $c \leftarrow (x[i] - t) + sum;$   
   $sum \leftarrow t;$   
   $t \leftarrow cs + c;$   
  if  $|cs| \geq |c|$  then  $cc \leftarrow (cs - t) + c;$   
  else  $c \leftarrow (c - t) + cs;$   
   $cs \leftarrow t; \quad ccs \leftarrow ccs + cc;$   
return  $sum + cs + ccs$ 
```

KahanSum