### PDP Newcomer's View

or: what I've been up to

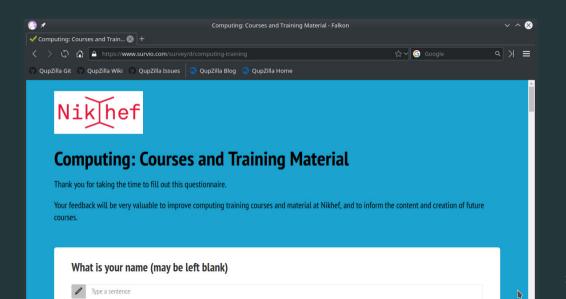
Roel Aaij December 18th 2018

Nikhef Jamboree

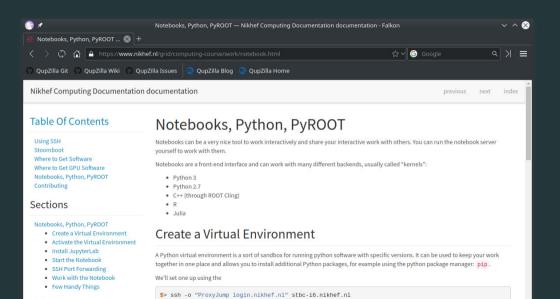


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#### Education



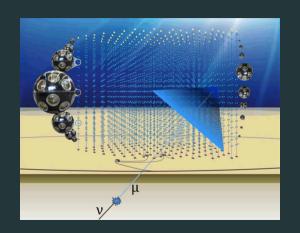
#### Education

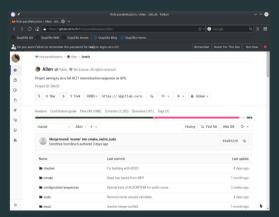




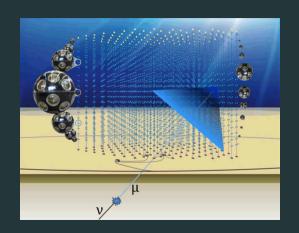
```
void simd gen(storage t& stor) {
Ranvec1 random{random method};
random.init(seed 0, seed 1);
float v offset;
for (int i = 0; i < stor.size() / float v::size(); ++i) {</pre>
   float v r{random.random8f()};
   r(r > f) = -tau * log(r);
   r(r < f) = a + b * r;
   auto out = prefix sum(i);
   out += offset:
   out.store(&storage[i * float v::size()]);
   offset = permute8<7, 7, 7, 7, 7, 7, 7, 7>(out);
```

### **GPUs**



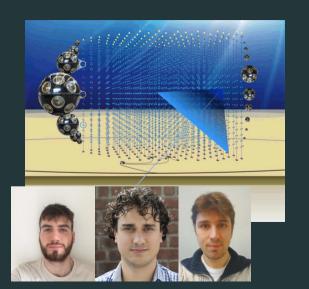


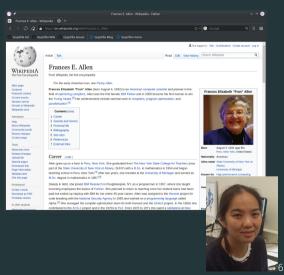
#### **GPUs**



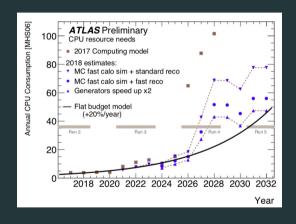


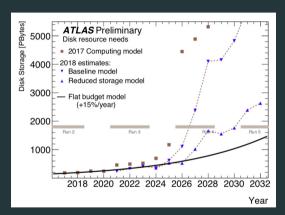
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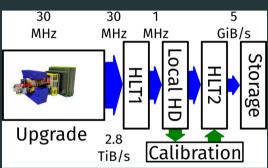
## Storage





# Compression





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