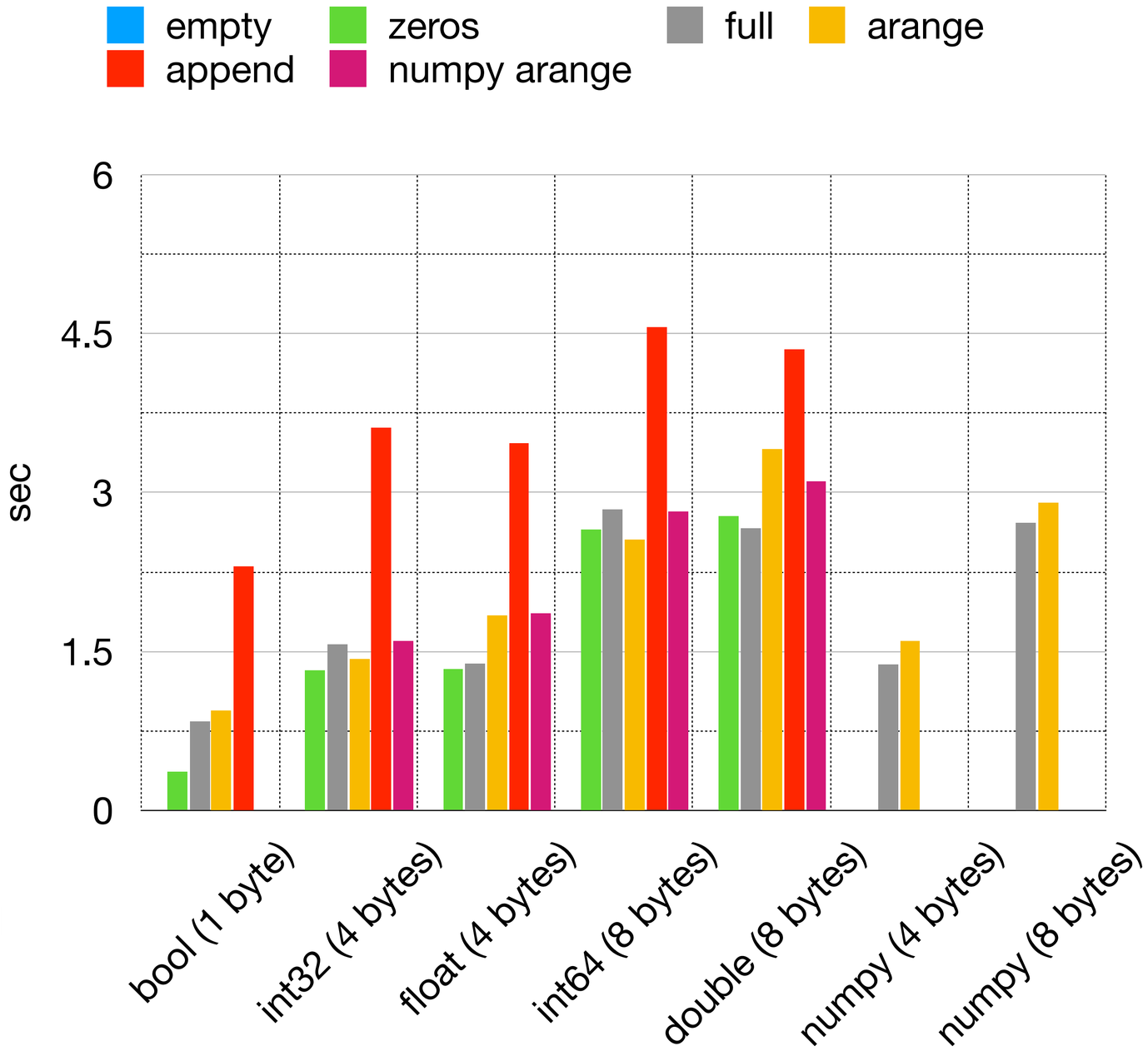
Growable Buffer

baseline performance tests

- GrowableBuffer<T> in pure C++ filled with 1,000,000,000 items:
  - *empty()*: allocated uninitialised memory
  - *zeros()*: default zero initialised memory
  - *full(value)*: a for loop to initialise allocated memory to a value
  - *arange()*: a for loop to initialise allocated memory to a for loop index
  - *append(datum)*: a for loop to copy data to an allocated memory
- Numpy array with 1,000,000,000 items created with: np.empty, np.zeros, np.ones, np.arange



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initial panel 1024, x8 resize once

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