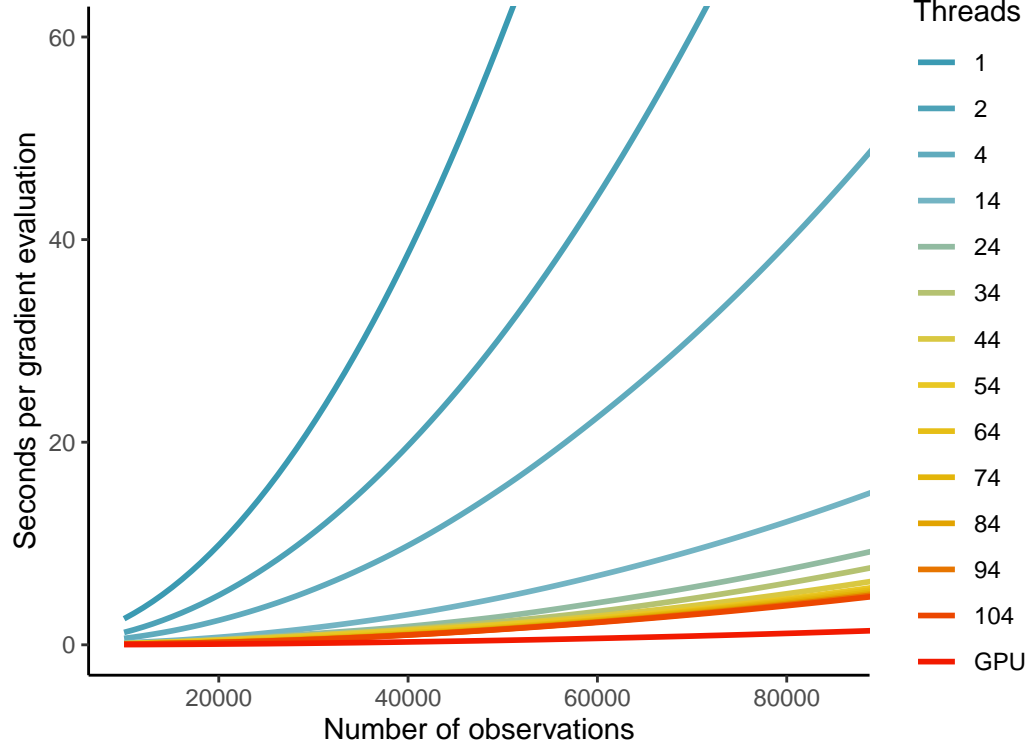
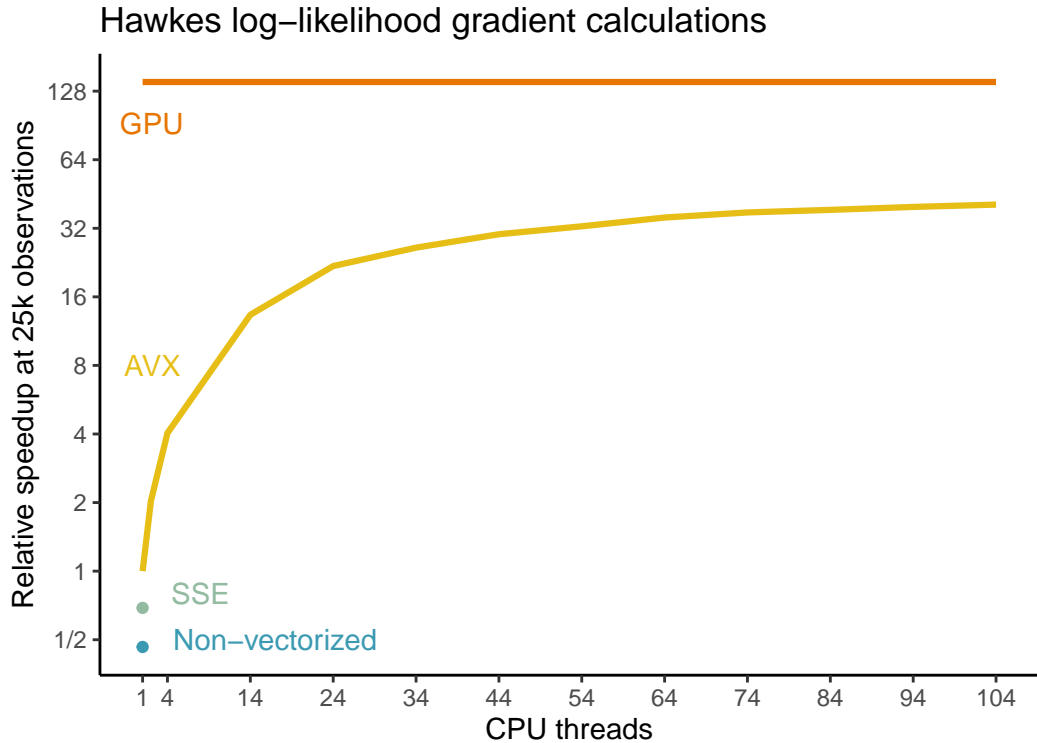


Hawkes log-likelihood gradient calculations



Hawkes log-likelihood Hessian calculations

