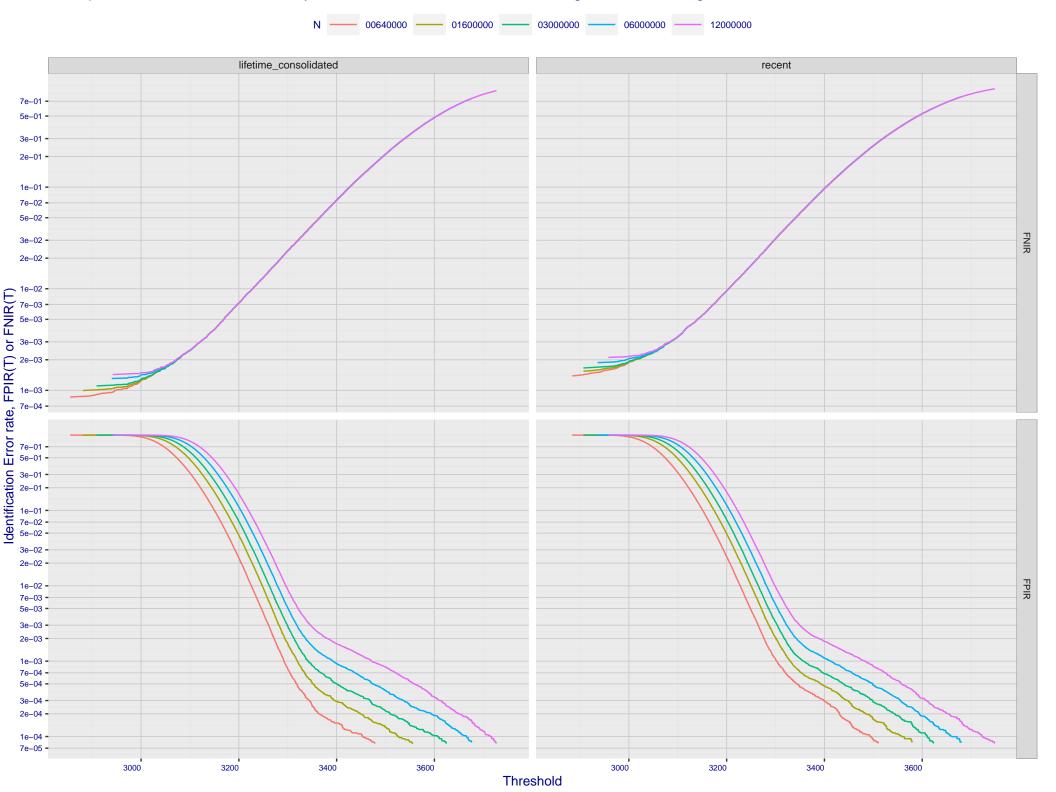
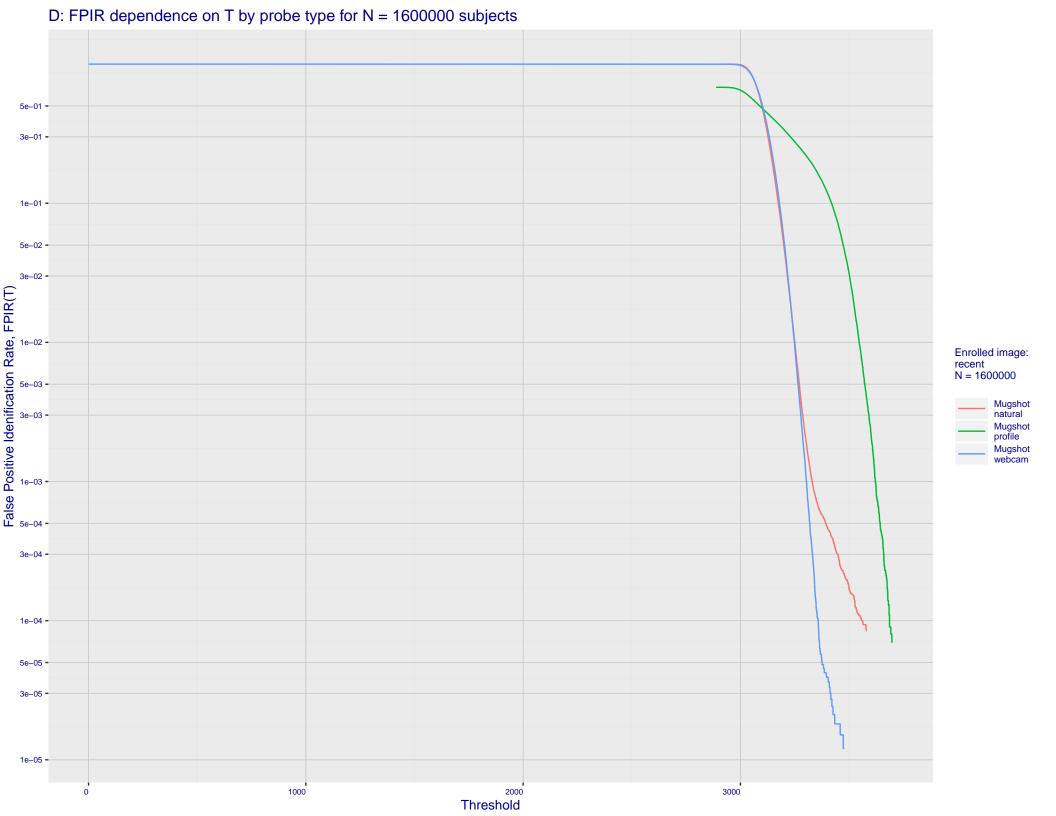
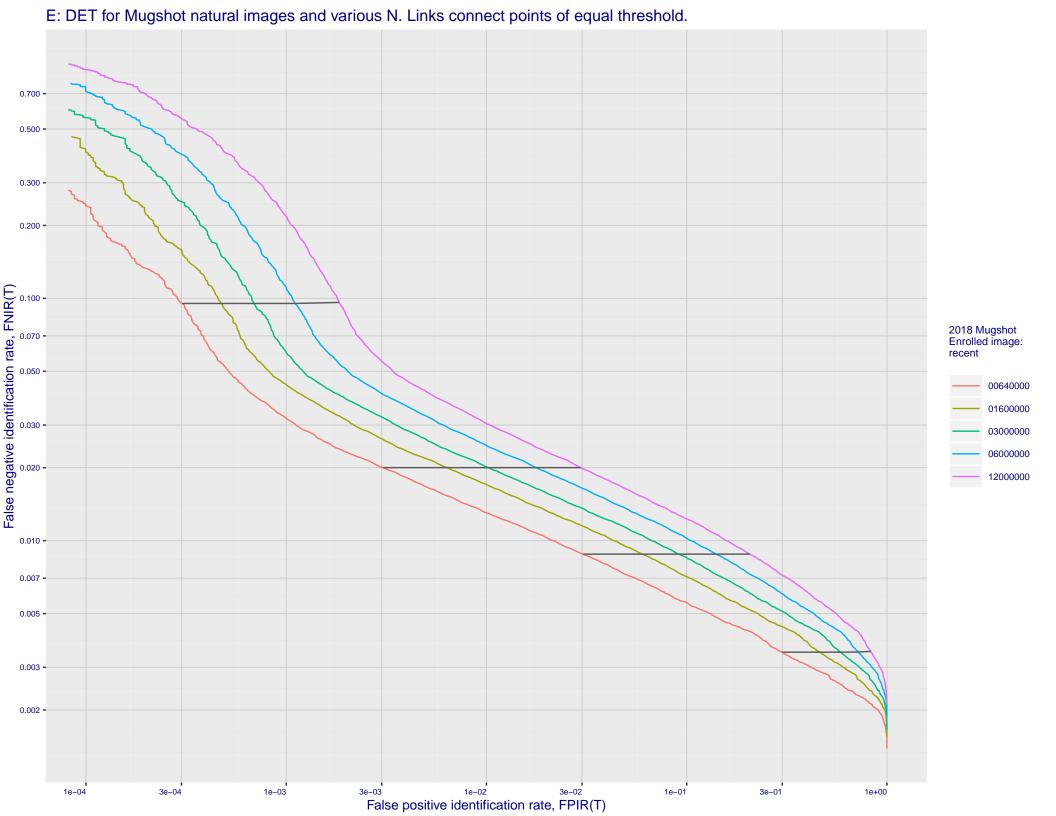


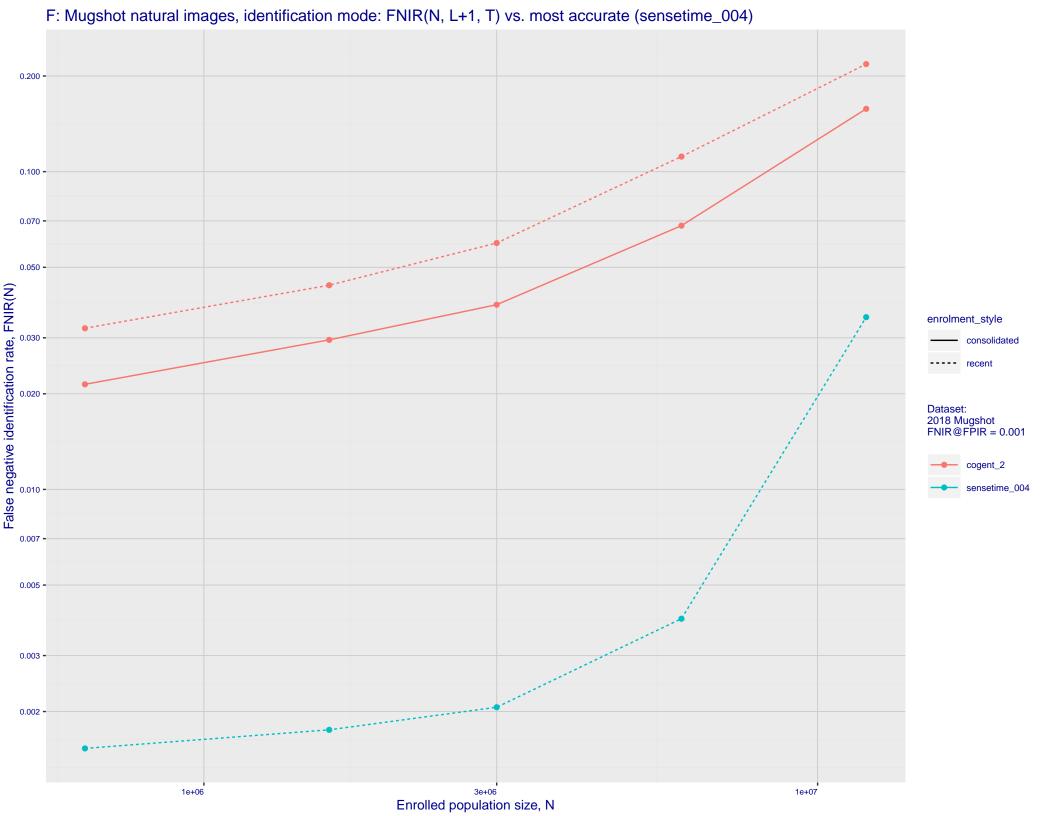
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate 7e+01 5e+01 3e+01 2e+01 -1e+01 7e+00 · 5e+00 -3e+00 -2e+00 -1e+00 -7e-01 -5e-01 -3e-01 -2e-01 -1e-01 -Enrolled images: recent N = 1600000 7e-02 - 7e-02 - 7e-03 Mugshot natural Mugshot profile Mugshot webcam 7e-03 -5e-03 -3e-03 -2e-03 -1e-03 -7e-04 -5e-04 -3e-04 -2e-04 -1e-04 • 7e-05 -5e-05 -3e-05 -2e-05 -1e-05 -1e-05 3e-05 1e-04 3e-04 1e-01 3e-01 False Positive Idenification Rate, FPIR(T)







## G: Datasheet

Algorithm: cogent\_2

Developer: Thales

Submission Date: 2018\_10\_30

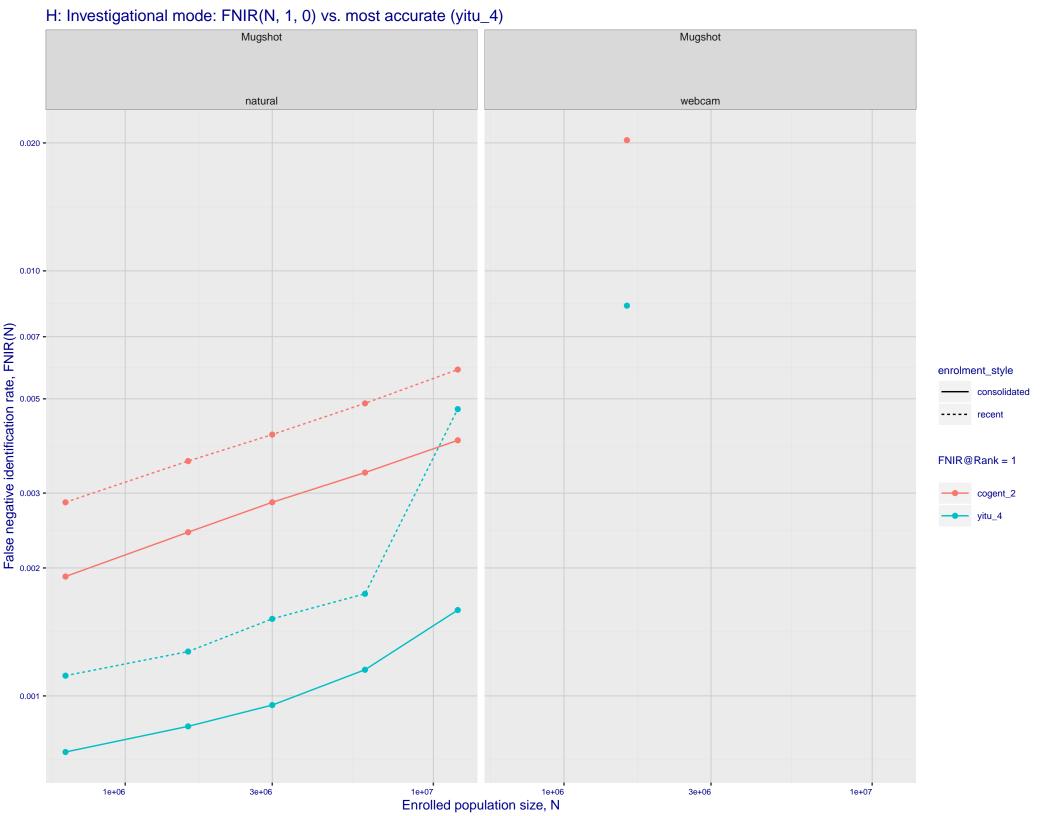
Template size: 1043 bytes

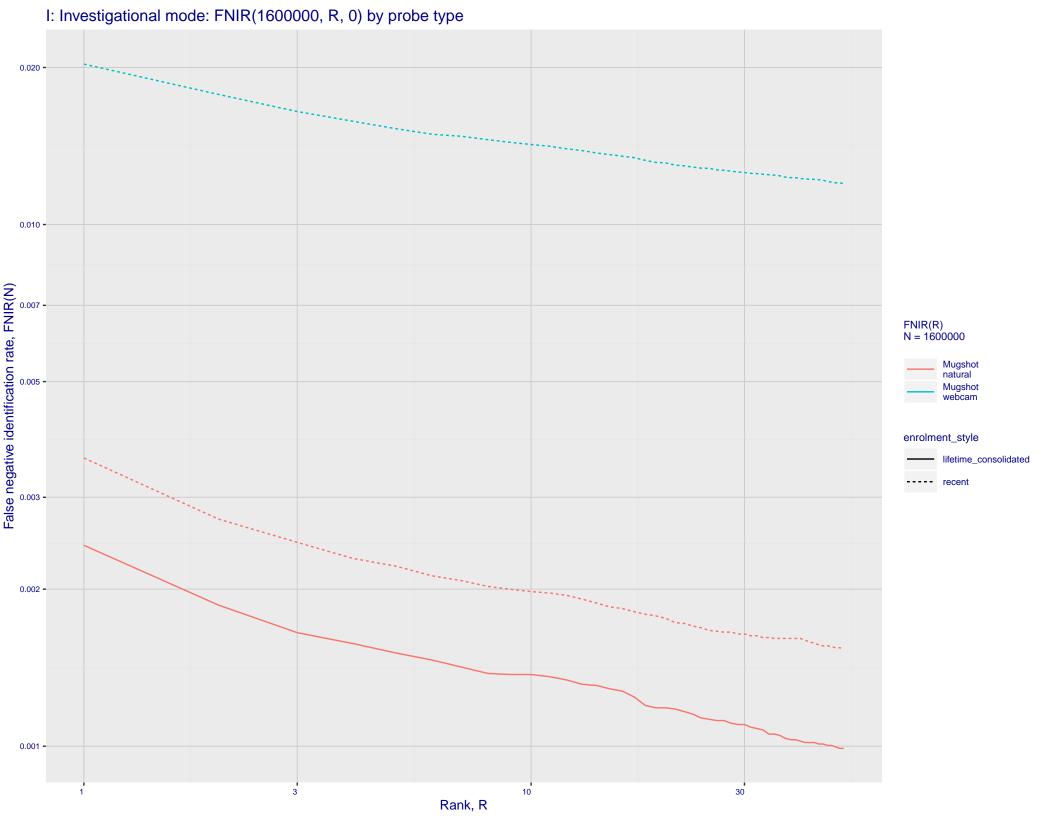
Template time (2.5 percentile): 941 msec

Template time (median): 946 msec

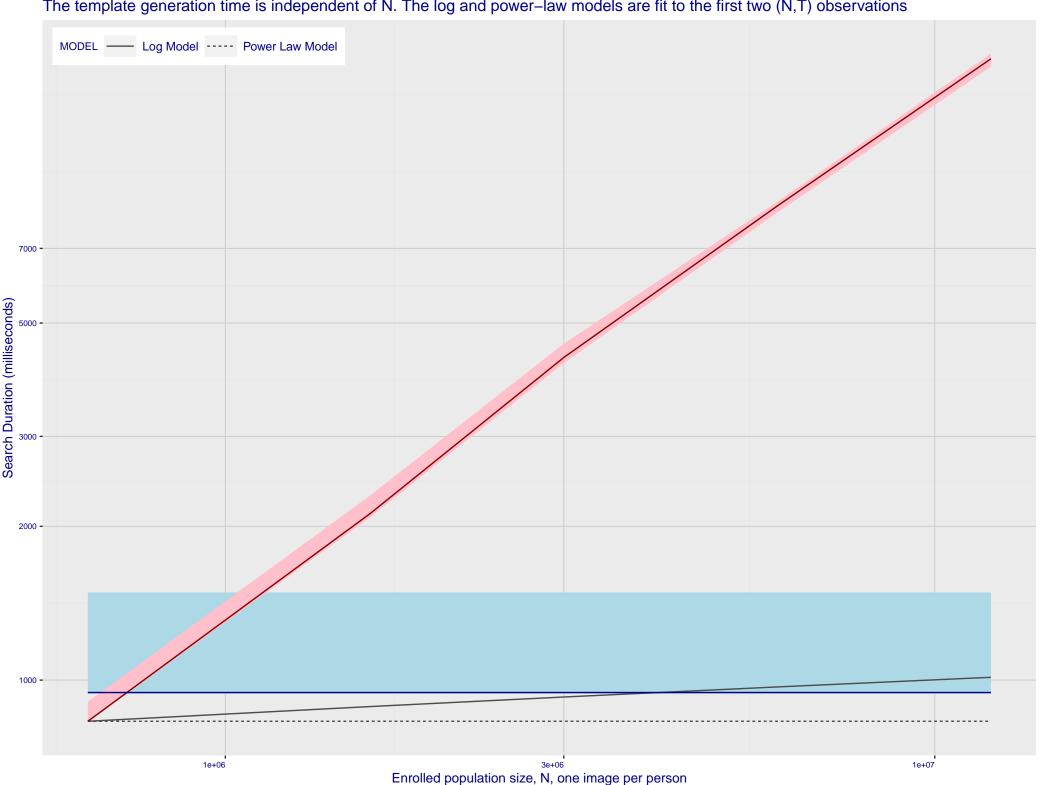
Template time (97.5 percentile): 1485 msec

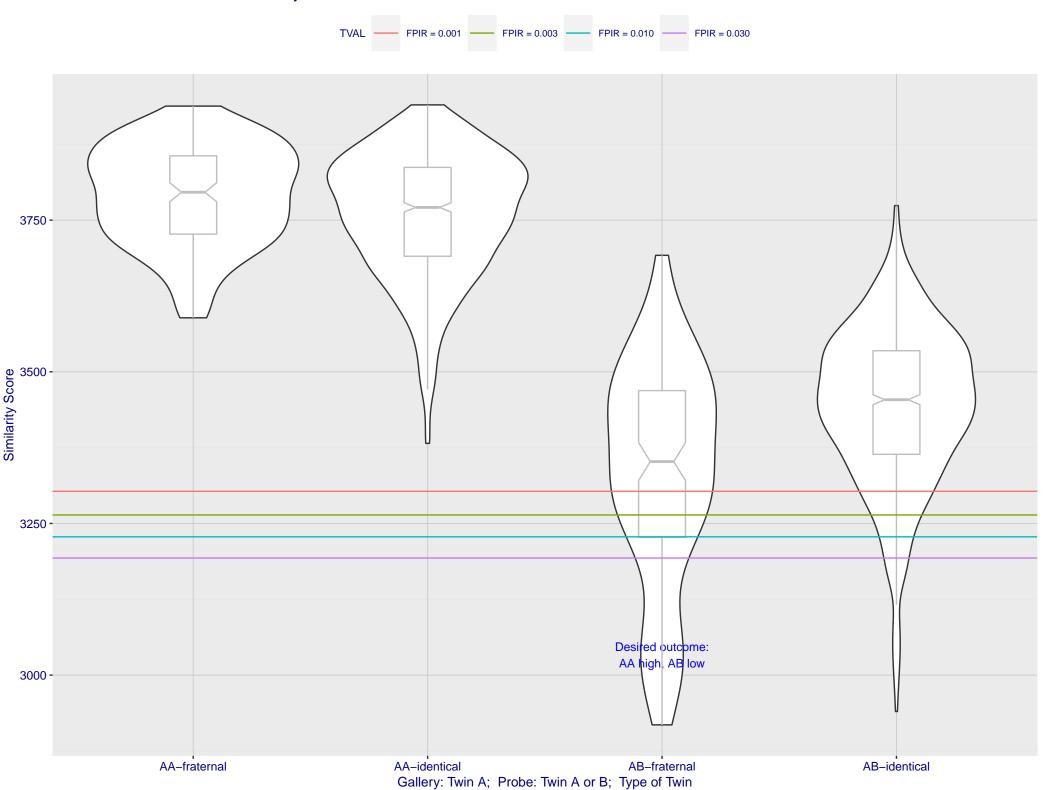
Frontal mugshot investigation rank 50 — FNIR(1600000, 0, 1) = 0.0036 vs. lowest 0.0010 from sensetime\_004 natural investigation rank 60 — FNIR(1600000, 0, 1) = 0.0203 vs. lowest 0.0067 from sensetime\_003 natural investigation rank 218 — FNIR(1600000, 0, 1) = 0.8921 vs. lowest 0.0492 from paravision\_005 natural investigation rank 218 — FNIR(1600000, 0, 1) = 0.8921 vs. lowest 0.0492 from paravision\_005 Frontal mugshot identification rank 58 — FNIR(1600000, T, L+1) = 0.0439 vs. lowest 0.0018 from sensetime\_004 natural identification rank 51 — FNIR(1600000, T, L+1) = 0.0976 vs. lowest 0.0122 from sensetime\_003 natural identification rank 107 — FNIR(1600000, T, L+1) = 0.9965 vs. lowest 0.1020 from sensetime\_004





Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power–law models are fit to the first two (N,T) observations





M: Identification FNIR(N, T, L+1) and Investigational FNIR(N, 0, R) under ageing

