Hybrid ILMN+ONT, Fscore (ont+sentdhio) (* indicates surpassing ILMN 30x baseline (giabHC sent+sentd)) giabHC giabHC_x_ultima 0.991 [0.997] 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 0.994 [0.997] 1.000 [0.997] 1.000 [0.997] 30 -0.991 [0.997] 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 0.994 [0.997] 1.000 [0.997] 0.999 [0.997] 1.000 [0.997] 1.000 [0.997] 20 0.998 [0.997] 0.999 [0.997] 15 0.991 [0.997] 0.997 [0.997] 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 0.994 [0.997] 1.000 [0.997] 1.000 [0.997] 10 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 0.998 [0.997] 0.999 [0.997] 0.999 [0.997] 1.000 [0.997] 0.997 [0.997] 0.998 [0.997] 0.999 [0.997] 0.999 [0.997] 0.980 [0.997] 0.994 [0.997] 0.998 [0.997] 0.983 [0.997] 0.996 [0.997] 0.999 [0.997] 1.000 [0.997] 0.999 [0.998] 1.000 [0.998] 0.999 [0.998] 0.999 [0.998] 30 -0.958 [0.998] 0.999 [0.998] 0.997 [0.998] 0.999 [0.998] 0.972 [0.998] 1.000 [0.998] 0.999 [0.998] 20 0.959 [0.998] 0.999 [0.998] 0.997 [0.998] 0.999 [0.998] 0.999 [0.998] 0.972 [0.998] 1.000 [0.998] 0.999 [0.998] 1.000 [0.998] 0.999 [0.998] 0.999 [0.998] 0.999 [0.998] 0.999 [0.998] 1.000 [0.998] 15 0.959 [0.998] 0.988 [0.998] 0.997 [0.998] 0.972 [0.998] 0.993 [0.998] 10 0.988 [0.998] 0.997 [0.998] 0.998 [0.998] 0.999 [0.998] 0.993 [0.998] 0.999 [0.998] 0.999 [0.998] 1.000 [0.998] 0.951 [0.998] 0.998 [0.998] 0.999 [0.998] 0.962 [0.998] 0.991 [0.998] 0.998 [0.998] 0.999 [0.998] 0.999 [0.998] 0.986 [0.998] 0.996 [0.998] 0.999 [0.998] 0.998 [0.998] 0.999 [0.998] 0.999 [0.998] 0.969 [0.998] 1.000 [0.998] 1.000 [0.998] 1.000 [0.998] 1.000 [0.998] 30 -0.966 [0.998] 20 0.967 [0.998] 0.999 [0.998] 0.999 [0.998] 0.999 [0.998] 0.999 [0.998] 0.970 [0.998] 1.000 [0.998] 1.000 [0.998] 1.000 [0.998] 15 0.994 [0.998] 0.999 [0.998] 0.999 [0.998] 0.999 [0.998] 0.996 [0.998] 1.000 [0.998] 1.000 [0.998] 1.000 [0.998] 0.968 [0.998] 0.971 [0.998] Mean F-score Coverage 20 0.999 [0.998] 0.995 [0.998] 0.999 [0.998] 0.999 [0.998] 0.996 [0.998] 1.000 [0.998] 1.000 [0.998] 1.000 [0.998] 0.999 [0.998] 0.999 [0.998] 0.971 [0.998] 0.996 [0.998] 1.000 [0.998] 1.000 [0.998] 1.000 [0.998] 0.970 [0.998] 0.995 [0.998] 0.999 [0.998] NO 20 0.999 [0.998] 0.997 [0.998] 0.998 [0.998] 0.999 [0.998] 0.967 [0.998] 1.000 [0.998] 0.998 [0.998] 0.999 [0.998] 1.000 [0.998] 0.952 [0.998] 0.999 [0.998] 0.998 [0.998] 0.999 [0.998] 1.000 [0.998] 0.998 [0.998] 0.997 [0.998] 0.999 [0.998] 1.000 [0.998] SNI 15 0.952 [0.998] 0.987 [0.998] 0.998 [0.998] 0.999 [0.998] 0.998 [0.998] 1.000 [0.998] 0.997 [0.998] 0.967 [0.998] 0.992 [0.998] 0.999 [0.998] 50 10 0.998 [0.998] 0.999 [0.998] 0.991 [0.998] 0.998 [0.998] 0.999 [0.998] 1.000 [0.998] 0.944 [0.998] 0.998 [0.998] 0.999 [0.998] 0.959 [0.998] 0.998 [0.998] 0.984 [0.998] 0.996 [0.998] 0.990 [0.998] 0.999 [0.998] 0.999 [0.998] 30 0.999 [0.997] 1.000 [0.997] 0.997 [0.997] 1.000 [0.997] 1.000 [0.997] 1.000 [0.997] 0.999 [0.997] 0.999 [0.997] 0.997 [0.997] 1.000 [0.997] 1.000 [0.997] 1.000 [0.997] 20 0.999 [0.997] 1.000 [0.997] 0.999 [0.997] 15 0.998 [0.997] 0.999 [0.997] 0.999 [0.997] 0.997 [0.997] 0.999 [0.997] 10 0.998 [0.997] 0.999 [0.997] 0.999 [0.997] 0.998 [0.997] 0.999 [0.997] 1.000 [0.997] 0.984 [0.997] 0.995 [0.997] 0.998 [0.997] 0.999 [0.997] 0.999 [0.997] 0.985 [0.997] 0.996 [0.997] 0.999 [0.997] 0.999 [0.997] 1.000 [0.997] 0.999 [0.997] 0.999 [0.997] 1.000 [0.997] 0.999 [0.997] 30 20 -0.999 [0.997] 1.000 [0.997] 15 0.998 [0.997] 0.999 [0.997] 0.995 [0.997] 0.998 [0.997] 10 0.997 [0.997] 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 0.998 [0.997] 1.000 [0.997] 0.982 [0.997] 0.995 [0.997] 0.998 [0.997] 0.998 [0.997] 0.999 [0.997] 0.984 [0.997] 0.996 [0.997] 0.999 [0.997] 0.999 [0.997] 0.999 [0.997] 5 3 20 5 30 30 **ILMN** Coverage

1.0 0.9

0.8

0.7 0.6