

## TEST LENGTH AND RELIABILITY

Lengthen by K

Curr rel\k	2	3	4
.5	.67	.75	.8
.6	.75	.82	.86
.7	.82	.88	.9
.8	.89	.92	.94

Note: Changing length of higher reliability measure has LESS impact on reliability

K for Desired Reliability

Curr Rel\Des Rel	.8	.9
.4	6	13.5
.5	4	9
.6	2.67	6
.7	1.71	3.85

Note: Higher current reliability, the greater the proportionate length change needed to change to a newer desired reliability (of equal reliability change ... eg, of .1 for example ... going from .4 to .5 only requires a k change of about 1.5 times ... whereas going from .7 to .8 needs about an 1.71 times k change)