1. The merged deletions between svdetect and pindel is attached.

wwz server

/home/linyong/cucumber-vs-chinese-long/dir-137acc/sv-merged-del.gz (19886 deletions)

sv-pindel-137acc-with-unknown-table (16465 deletions by pindel only)

sv-126-hardw-acc.2windows.unknown.table (10260 deletions by SVDetect only)

2. G8 vs cucumber ref. deletion true/false positive assessment

s1. get seq from cucumber ref for two windows, del region, and whole region

sh script-test-fp-getSeq (wwz)

output: hasDel-test-G8-1

>left-window-1-500-bp

GTCAAAAGCAAATATTTAATGAATGAGGCAGAGAGTGAAAATAATAATAATAATAACAACACTCCCTTCTTCCATTATTTTGGAAAAAAAAAATTAGTGTGTTTTCAAGACGGTGTACGGACGAATAAATGAAACATTTTGTTGTATTAATATTAAAGTTGAACCTTGATTAATCAGAGGATAAAAAAGAAATCATCATTATAAAATTTTAAAAAAAATGTTCGATATTAATTAATTAATTAAAAAAGTATGATAAAAATGATTTTGAAGAAGAAAAAGAAAATGATTCAATAATAATAATAATAATAATGGGGTCCAGTTGGAAGAGCAAAATGCAAAGAGAGTCCAGTTGTTATCCTCTCTCTATCCAAACAGGGAACATGTTACATGCTTATGCTTCATTATTTTAAGGCTTTTTCCAACCAAGCTTTTTCAATCTTTGTTCCAAAATTTAGCTTAACTCACGTGATTCGCACGTGCATAACATGACTCCTTGAATC

>right-window-1-500-bp

….

>del-region-1-167-bp

CCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTCCTCTC

>whole-region-1-1165-bp

……

s2. blast against G8 assembly

sh script-test-blastall-2 > blast.out

output:

-------------------------------positive deletion hasDel-test-G8-1-------------------

left-window-1-500-bp Chr1 99.20 500 3 1 1 500 15011584 15012082 0.0 952

right-window-1-500-bp Chr1 99.19 495 4 0 6 500 15012083 15012577 0.0 950

whole-region-1-1165-bp Chr1 99.24 527 3 1 1 527 15011584 15012109 0.0 1005

s3. assess true/false deletion

svDeletionNegValid.del.noHit 0.8 0.05 blast.out out2

svInsNegValid 0.8 0.05 blast.out out.txt ### for insertion