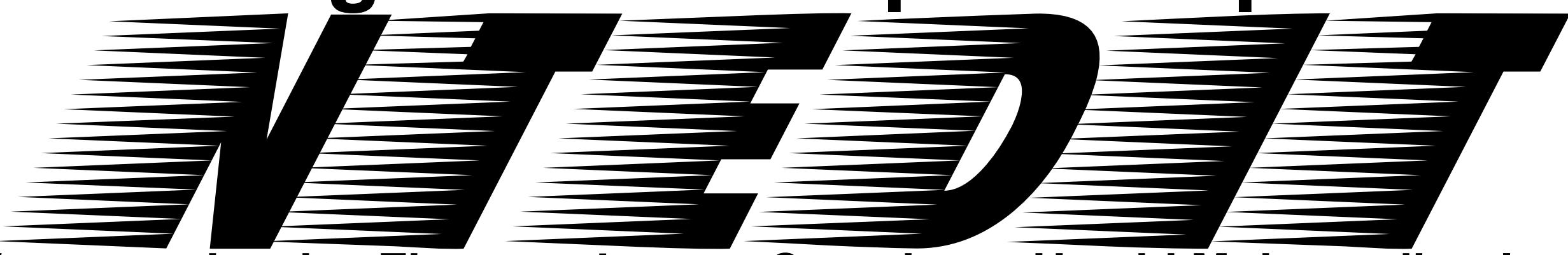
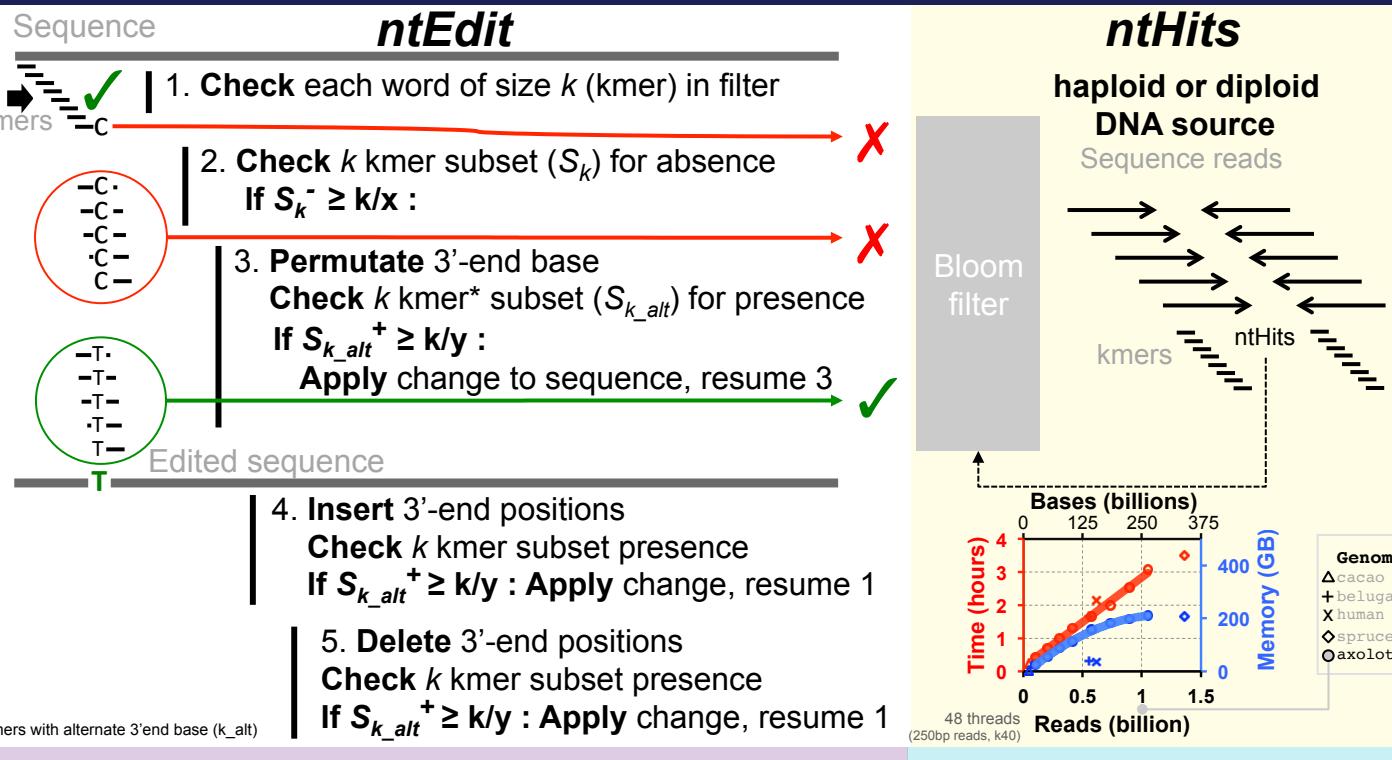


# scalable genome sequence polishing



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## Method



## ntHits

haploid or diploid DNA source

Sequence reads

Bloom filter

kmers

nth-hits

Time (hours)

Memory (GB)

Bases (billions)

Reads (billion)

Genome

△ *cacao*

+ *beluga*

✗ *human*

◊ *spruce*

◇ *axolotl*

Tool

Baseline

GATK

Pilon

ntEdit k=20

ntEdit k=30

ntEdit iterative k=35,30,25

Time (min)

Racon

45h54

Peak Memory (GB)

2h18

5.670 (91.6)

5.647 (91.2)

41h45

5.654 (91.3)

5.647 (91.2)

24h33

5.651 (91.3)

5.647 (91.2)

40h55

5.670 (91.6)

5.647 (91.2)

34h33

5.647 (91.2)

38h54

5.647 (91.2)

7h

5.647 (91.2)

33h

5.647 (91.2)

36h

5.647 (91.2)

38h

5.647 (91.2)

39h

5.647 (91.2)

40h

5.647 (91.2)

41h

5.647 (91.2)

42h

5.647 (91.2)

43h

5.647 (91.2)

44h

5.647 (91.2)

45h

5.647 (91.2)

46h

5.647 (91.2)

47h

5.647 (91.2)

48h

5.647 (91.2)

49h

5.647 (91.2)

50h

5.647 (91.2)

51h

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52h

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56h

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57h

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58h

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59h

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60h

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61h

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62h

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63h

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64h

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65h

5.647 (91.2)

66h

5.647 (91.2)

67h

5.647 (91.2)

68h

5.647 (91.2)

69h

5.647 (91.2)

70h

5.647 (91.2)

71h

5.647 (91.2)

72h

5.647 (91.2)

73h

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74h

5.647 (91.2)

75h

5.647 (91.2)

76h

5.647 (91.2)

77h

5.647 (91.2)

78h

5.647 (91.2)

79h

5.647 (91.2)

80h

5.647 (91.2)

81h

5.647 (91.2)

82h

5.647 (91.2)

83h

5.647 (91.2)

84h

5.647 (91.2)

85h

5.647 (91.2)

86h

5.647 (91.2)

87h

5.647 (91.2)

88h

5.647 (91.2)

89h

5.647 (91.2)

90h

5.647 (91.2)

91h

5.647 (91.2)

92h

5.647 (91.2)

93h

5.647 (91.2)

94h

5.647 (91.2)

95h

5.647 (91.2)

96h

5.647 (91.2)

97h

5.647 (91.2)

98h