Starling-May18

Projects/Katarina Stuart/KStuart.Starling-Aug18/Sv3_Genome/Annotation/2020-04-06.BUSCOlong

PDF Version generated by

Katarina Stuart (z5188231@ad.unsw.edu.au)

on

Jun 23, 2022 @04:12 PM NZST

Table of Contents

2020-04-06.BUSCOlong

Katarina Stuart (z5188231@ad.unsw.edu.au) - Sep 30, 2020, 11:39 PM NZDT

BUSCO-long

```
#!/bin/bash

#PBS -N 2020-05-05.BUSCOLong.pbs
#PBS -l nodes=1:ppn=40
#PBS -l mem=56gb
#PBS -l walltime=200:00:00
#PBS -j oe
#PBS -M katarina.stuart@student.unsw.edu.au
#PBS -m ae
```

```
GENOMEDIR=/srv/scratch/z5188231/KStuart.Starling-Aug18/Sv3_Genome/Sv3.4_GenomeAnnotation/data_2020/genome_assembly
GENBASE=Sturnus_vulgaris_2.3.simp

GENOME=${GENOMEDIR}/${GENBASE}.fasta
OUTDIR=${GENBASE}.busco

MODEL=/srv/scratch/z5188231/KStuart.Starling-Aug18/Sv3_Genome/Sv3.4_GenomeAnnotation/data/BUSCO.2018-08-21/aves_odb9
```

```
module purge
module load python/3.7.3 blast+/2.2.31 hmmer/3.2.1 augustus/3.3.2 emboss/6.6.0 busco/3.0.2b
export AUGUSTUS_CONFIG_PATH=/srv/scratch/z5188231/programs/augustus
export BUSCO_CONFIG_FILE=/home/z5188231/busco/3.0.2b/config/config.ini
```

```
cd /srv/scratch/z5188231/KStuart.Starling-Aug18/Sv3_Genome/Sv3.4_GenomeAnnotation/data_2020/buscolong

mkdir $OUTDIR
cd $OUTDIR
```

```
python3 /apps/busco/3.0.2b/scripts/run_BUSCO.py -o $GENBASE -i $GENOME -l $MODEL --cpu 40 -m genome --tmp $TMPDIR --long
```

Ran once (end 15/04/20), Timed out after 200 hrs. resubmitting to Katana with the --restart tag

3rd run restart - 24/04/2020

Resubmmitted with new genome version 5/5/20.

```
python3 /apps/busco/3.0.2b/scripts/run_BUSCO.py -i ./GCF_001522545.3_Parus_major1.1_genomic.fna -o Parus_major1.1_genomic.busco -m genome -l ${BUSCOSET}/aves_odb9/ -c 32 -f
```

```
module load python/3.7.3 blast+/2.2.31 hmmer/3.2.1 augustus/3.3.2 emboss/6.6.0 busco/3.0.2b
export AUGUSTUS_CONFIG_PATH=/srv/scratch/z5188231/programs/augustus
export BUSCO_CONFIG_FILE=/home/z5188231/busco/3.0.2b/config/config.ini
```

BUSCOSET=/srv/scratch/z5188231/KStuart.Starling-Aug18/Sv3_Genome/Sv3.4_GenomeAnnotation/data/BUSCO.2018-08-21

submitted job to katana 22/8/18

[z5188231@katana scripts]$ qsub 2018-08-22.1.BUSCOLong.pbs
6679258.katana.science.unsw.edu.au

timed out after 200 hrs. resubmitting to Katama with the --restart tag

[z5188231@katana scripts]$ qsub 2018-08-22.1.BUSCOLong.pbs
6683522.katana.science.unsw.edu.au