(base) leonid@leonid-Aspire-A315-42:~$ bash download\_files.sh

--2022-06-14 16:59:11-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/002/765/GCF\_000002765.5\_GCA\_000002765/GCF\_000002765.5\_GCA\_000002765\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.12, 130.14.250.10, 2607:f220:41f:250::230, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.12|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2427728 (2,3M) [application/x-gzip]

Saving to: ‘plasmosium\_falciparum\_protein.faa.gz’

plasmosium\_falcipar 100%[===================>] 2,31M 2,43MB/s in 1,0s

2022-06-14 16:59:13 (2,43 MB/s) - ‘plasmosium\_falciparum\_protein.faa.gz’ saved [2427728/2427728]

--2022-06-14 16:59:13-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/002/415/GCF\_000002415.2\_ASM241v2/GCF\_000002415.2\_ASM241v2\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2296579 (2,2M) [application/x-gzip]

Saving to: ‘plasmosium\_vivax\_protein.faa.gz’

plasmosium\_vivax\_pr 100%[===================>] 2,19M 2,36MB/s in 0,9s

2022-06-14 16:59:15 (2,36 MB/s) - ‘plasmosium\_vivax\_protein.faa.gz’ saved [2296579/2296579]

--2022-06-14 16:59:15-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/001/602/025/GCF\_001602025.1\_ASM160202v1/GCF\_001602025.1\_ASM160202v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2228896 (2,1M) [application/x-gzip]

Saving to: ‘plasmosium\_gaboni\_protein.faa.gz’

plasmosium\_gaboni\_p 100%[===================>] 2,12M 2,07MB/s in 1,0s

2022-06-14 16:59:16 (2,07 MB/s) - ‘plasmosium\_gaboni\_protein.faa.gz’ saved [2228896/2228896]

--2022-06-14 16:59:16-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/006/355/GCF\_000006355.2\_GCA\_000006355.2/GCF\_000006355.2\_GCA\_000006355.2\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2407451 (2,3M) [application/x-gzip]

Saving to: ‘plasmosium\_knowlesi\_protein.faa.gz’

plasmosium\_knowlesi 100%[===================>] 2,30M 2,22MB/s in 1,0s

2022-06-14 16:59:18 (2,22 MB/s) - ‘plasmosium\_knowlesi\_protein.faa.gz’ saved [2407451/2407451]

--2022-06-14 16:59:18-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/002/385/GCF\_900002385.2\_GCA\_900002385/GCF\_900002385.2\_GCA\_900002385\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2245574 (2,1M) [application/x-gzip]

Saving to: ‘plasmosium\_yoelii\_protein.faa.gz’

plasmosium\_yoelii\_p 100%[===================>] 2,14M 2,12MB/s in 1,0s

2022-06-14 16:59:20 (2,12 MB/s) - ‘plasmosium\_yoelii\_protein.faa.gz’ saved [2245574/2245574]

--2022-06-14 16:59:20-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/005/765/GCF\_900005765.1\_PRELSG/GCF\_900005765.1\_PRELSG\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2160539 (2,1M) [application/x-gzip]

Saving to: ‘plasmosium\_relictum\_protein.faa.gz’

plasmosium\_relictum 100%[===================>] 2,06M 2,08MB/s in 1,0s

2022-06-14 16:59:21 (2,08 MB/s) - ‘plasmosium\_relictum\_protein.faa.gz’ saved [2160539/2160539]

--2022-06-14 16:59:21-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/001/601/855/GCF\_001601855.1\_ASM160185v1/GCF\_001601855.1\_ASM160185v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2227309 (2,1M) [application/x-gzip]

Saving to: ‘plasmosium\_reichenowi\_protein.faa.gz’

plasmosium\_reicheno 100%[===================>] 2,12M 2,07MB/s in 1,0s

2022-06-14 16:59:23 (2,07 MB/s) - ‘plasmosium\_reichenowi\_protein.faa.gz’ saved [2227309/2227309]

--2022-06-14 16:59:23-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/002/375/GCF\_900002375.2\_GCA\_900002375/GCF\_900002375.2\_GCA\_900002375\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2068514 (2,0M) [application/x-gzip]

Saving to: ‘plasmosium\_berghei\_ANKA\_protein.faa.gz’

plasmosium\_berghei\_ 100%[===================>] 1,97M 2,01MB/s in 1,0s

2022-06-14 16:59:24 (2,01 MB/s) - ‘plasmosium\_berghei\_ANKA\_protein.faa.gz’ saved [2068514/2068514]

--2022-06-14 16:59:24-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/002/335/GCF\_900002335.2\_PCHAS01/GCF\_900002335.2\_PCHAS01\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2117346 (2,0M) [application/x-gzip]

Saving to: ‘plasmosium\_chabaudi\_protein.faa.gz’

plasmosium\_chabaudi 100%[===================>] 2,02M 2,08MB/s in 1,0s

2022-06-14 16:59:26 (2,08 MB/s) - ‘plasmosium\_chabaudi\_protein.faa.gz’ saved [2117346/2117346]

--2022-06-14 16:59:26-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/956/335/GCF\_000956335.1\_Plas\_frag\_nilgiri\_V1/GCF\_000956335.1\_Plas\_frag\_nilgiri\_V1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2387647 (2,3M) [application/x-gzip]

Saving to: ‘plasmosium\_fragile\_protein.faa.gz’

plasmosium\_fragile\_ 100%[===================>] 2,28M 2,31MB/s in 1,0s

2022-06-14 16:59:27 (2,31 MB/s) - ‘plasmosium\_fragile\_protein.faa.gz’ saved [2387647/2387647]

--2022-06-14 16:59:27-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/005/855/GCF\_900005855.1\_PGAL8A/GCF\_900005855.1\_PGAL8A\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2198175 (2,1M) [application/x-gzip]

Saving to: ‘plasmosium\_gallinaceum\_protein.faa.gz’

plasmosium\_gallinac 100%[===================>] 2,10M 2,07MB/s in 1,0s

2022-06-14 16:59:29 (2,07 MB/s) - ‘plasmosium\_gallinaceum\_protein.faa.gz’ saved [2198175/2198175]

--2022-06-14 16:59:29-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/001/680/005/GCF\_001680005.1\_ASM168000v1/GCF\_001680005.1\_ASM168000v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2400611 (2,3M) [application/x-gzip]

Saving to: ‘plasmosium\_coatneyi\_protein.faa.gz’

plasmosium\_coatneyi 100%[===================>] 2,29M 2,27MB/s in 1,0s

2022-06-14 16:59:31 (2,27 MB/s) - ‘plasmosium\_coatneyi\_protein.faa.gz’ saved [2400611/2400611]

--2022-06-14 16:59:31-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/090/045/GCF\_900090045.1\_PmUG01/GCF\_900090045.1\_PmUG01\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2483991 (2,4M) [application/x-gzip]

Saving to: ‘plasmosium\_malariae\_protein.faa.gz’

plasmosium\_malariae 100%[===================>] 2,37M 2,14MB/s in 1,1s

2022-06-14 16:59:32 (2,14 MB/s) - ‘plasmosium\_malariae\_protein.faa.gz’ saved [2483991/2483991]

--2022-06-14 16:59:32-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/681/995/GCF\_900681995.1\_PVVCY\_v1/GCF\_900681995.1\_PVVCY\_v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2072676 (2,0M) [application/x-gzip]

Saving to: ‘plasmosium\_vinckei\_protein.faa.gz’

plasmosium\_vinckei\_ 100%[===================>] 1,98M 2,10MB/s in 0,9s

2022-06-14 16:59:34 (2,10 MB/s) - ‘plasmosium\_vinckei\_protein.faa.gz’ saved [2072676/2072676]

--2022-06-14 16:59:34-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/900/097/015/GCF\_900097015.1\_PADLG01/GCF\_900097015.1\_PADLG01\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2404984 (2,3M) [application/x-gzip]

Saving to: ‘plasmosium\_sp.\_gorilla\_clade\_G2\_protein.faa.gz’

plasmosium\_sp.\_gori 100%[===================>] 2,29M 2,35MB/s in 1,0s

2022-06-14 16:59:35 (2,35 MB/s) - ‘plasmosium\_sp.\_gorilla\_clade\_G2\_protein.faa.gz’ saved [2404984/2404984]

--2022-06-14 16:59:35-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/524/495/GCF\_000524495.1\_Plas\_inui\_San\_Antonio\_1\_V1/GCF\_000524495.1\_Plas\_inui\_San\_Antonio\_1\_V1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2334315 (2,2M) [application/x-gzip]

Saving to: ‘plasmosium\_inui\_San\_Antonio\_1\_protein.faa.gz’

plasmosium\_inui\_San 100%[===================>] 2,23M 2,27MB/s in 1,0s

2022-06-14 16:59:37 (2,27 MB/s) - ‘plasmosium\_inui\_San\_Antonio\_1\_protein.faa.gz’ saved [2334315/2334315]

--2022-06-14 16:59:37-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/321/355/GCF\_000321355.1\_PcynB\_1.0/GCF\_000321355.1\_PcynB\_1.0\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2044707 (1,9M) [application/x-gzip]

Saving to: ‘plasmosium\_cynomolgi\_protein.faa.gz’

plasmosium\_cynomolg 100%[===================>] 1,95M 1,95MB/s in 1,0s

2022-06-14 16:59:38 (1,95 MB/s) - ‘plasmosium\_cynomolgi\_protein.faa.gz’ saved [2044707/2044707]

--2022-06-14 16:59:38-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/499/745/GCF\_000499745.2\_EMH001/GCF\_000499745.2\_EMH001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2395383 (2,3M) [application/x-gzip]

Saving to: ‘eimeria\_mitis\_protein.faa.gz’

eimeria\_mitis\_prote 100%[===================>] 2,28M 2,36MB/s in 1,0s

2022-06-14 16:59:40 (2,36 MB/s) - ‘eimeria\_mitis\_protein.faa.gz’ saved [2395383/2395383]

--2022-06-14 16:59:40-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/499/385/GCF\_000499385.1\_ENH001/GCF\_000499385.1\_ENH001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2680043 (2,6M) [application/x-gzip]

Saving to: ‘eimeria\_necatrix\_protein.faa.gz’

eimeria\_necatrix\_pr 100%[===================>] 2,56M 2,60MB/s in 1,0s

2022-06-14 16:59:41 (2,60 MB/s) - ‘eimeria\_necatrix\_protein.faa.gz’ saved [2680043/2680043]

--2022-06-14 16:59:42-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/000/499/445/GCA\_000499445.1\_EPH001/GCA\_000499445.1\_EPH001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1966023 (1,9M) [application/x-gzip]

Saving to: ‘eimeria\_praecox\_protein.faa.gz’

eimeria\_praecox\_pro 100%[===================>] 1,87M 1,92MB/s in 1,0s

2022-06-14 16:59:43 (1,92 MB/s) - ‘eimeria\_praecox\_protein.faa.gz’ saved [1966023/1966023]

--2022-06-14 16:59:43-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/499/605/GCF\_000499605.1\_EMW001/GCF\_000499605.1\_EMW001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2314299 (2,2M) [application/x-gzip]

Saving to: ‘eimeria\_maxima\_protein.faa.gz’

eimeria\_maxima\_prot 100%[===================>] 2,21M 2,29MB/s in 1,0s

2022-06-14 16:59:45 (2,29 MB/s) - ‘eimeria\_maxima\_protein.faa.gz’ saved [2314299/2314299]

--2022-06-14 16:59:45-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/499/425/GCF\_000499425.1\_EAH001/GCF\_000499425.1\_EAH001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2620788 (2,5M) [application/x-gzip]

Saving to: ‘eimeria\_acervulina\_protein.faa.gz’

eimeria\_acervulina\_ 100%[===================>] 2,50M 2,42MB/s in 1,0s

2022-06-14 16:59:46 (2,42 MB/s) - ‘eimeria\_acervulina\_protein.faa.gz’ saved [2620788/2620788]

--2022-06-14 16:59:46-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/000/499/725/GCA\_000499725.1\_EBH001/GCA\_000499725.1\_EBH001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2573986 (2,5M) [application/x-gzip]

Saving to: ‘eimeria\_brunetti\_protein.faa.gz’

eimeria\_brunetti\_pr 100%[===================>] 2,45M 2,55MB/s in 1,0s

2022-06-14 16:59:48 (2,55 MB/s) - ‘eimeria\_brunetti\_protein.faa.gz’ saved [2573986/2573986]

--2022-06-14 16:59:48-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/499/545/GCF\_000499545.2\_ETH001/GCF\_000499545.2\_ETH001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2548652 (2,4M) [application/x-gzip]

Saving to: ‘eimeria\_tenella\_protein.faa.gz’

eimeria\_tenella\_pro 100%[===================>] 2,43M 2,36MB/s in 1,0s

2022-06-14 16:59:49 (2,36 MB/s) - ‘eimeria\_tenella\_protein.faa.gz’ saved [2548652/2548652]

--2022-06-14 16:59:49-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/003/225/GCF\_000003225.4\_ASM322v1/GCF\_000003225.4\_ASM322v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1247020 (1,2M) [application/x-gzip]

Saving to: ‘theileria\_annulata\_protein.faa.gz’

theileria\_annulata\_ 100%[===================>] 1,19M 1,53MB/s in 0,8s

2022-06-14 16:59:51 (1,53 MB/s) - ‘theileria\_annulata\_protein.faa.gz’ saved [1247020/1247020]

--2022-06-14 16:59:51-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/342/415/GCF\_000342415.1\_JCVI-bewag-v1.1/GCF\_000342415.1\_JCVI-bewag-v1.1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1642321 (1,6M) [application/x-gzip]

Saving to: ‘theileria\_equi\_strain\_WA\_protein.faa.gz’

theileria\_equi\_stra 100%[===================>] 1,57M 1,83MB/s in 0,9s

2022-06-14 16:59:52 (1,83 MB/s) - ‘theileria\_equi\_strain\_WA\_protein.faa.gz’ saved [1642321/1642321]

--2022-06-14 16:59:52-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/740/895/GCF\_000740895.1\_ASM74089v1/GCF\_000740895.1\_ASM74089v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1282553 (1,2M) [application/x-gzip]

Saving to: ‘theileria\_orientalis\_strain\_Shintoku\_protein.faa.gz’

theileria\_orientali 100%[===================>] 1,22M 1,42MB/s in 0,9s

2022-06-14 16:59:54 (1,42 MB/s) - ‘theileria\_orientalis\_strain\_Shintoku\_protein.faa.gz’ saved [1282553/1282553]

--2022-06-14 16:59:54-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/165/365/GCF\_000165365.1\_ASM16536v1/GCF\_000165365.1\_ASM16536v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1162937 (1,1M) [application/x-gzip]

Saving to: ‘theileria\_parva\_strain\_Muguga\_protein.faa.gz’

theileria\_parva\_str 100%[===================>] 1,11M 1,39MB/s in 0,8s

2022-06-14 16:59:55 (1,39 MB/s) - ‘theileria\_parva\_strain\_Muguga\_protein.faa.gz’ saved [1162937/1162937]

--2022-06-14 16:59:55-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/165/395/GCF\_000165395.1\_ASM16539v1/GCF\_000165395.1\_ASM16539v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1153389 (1,1M) [application/x-gzip]

Saving to: ‘babesia\_bovis\_T2Bo\_protein.faa.gz’

babesia\_bovis\_T2Bo\_ 100%[===================>] 1,10M 1,46MB/s in 0,8s

2022-06-14 16:59:56 (1,46 MB/s) - ‘babesia\_bovis\_T2Bo\_protein.faa.gz’ saved [1153389/1153389]

--2022-06-14 16:59:56-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/691/945/GCF\_000691945.2\_ASM69194v2/GCF\_000691945.2\_ASM69194v2\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1032442 (1008K) [application/x-gzip]

Saving to: ‘babesia\_microti\_strain\_RI\_protein.faa.gz’

babesia\_microti\_str 100%[===================>] 1008K 1,23MB/s in 0,8s

2022-06-14 16:59:58 (1,23 MB/s) - ‘babesia\_microti\_strain\_RI\_protein.faa.gz’ saved [1032442/1032442]

--2022-06-14 16:59:58-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/981/445/GCF\_000981445.1\_Bbig001/GCF\_000981445.1\_Bbig001\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1734833 (1,7M) [application/x-gzip]

Saving to: ‘babesia\_bigemina\_protein.faa.gz’

babesia\_bigemina\_pr 100%[===================>] 1,65M 1,68MB/s in 1,0s

2022-06-14 16:59:59 (1,68 MB/s) - ‘babesia\_bigemina\_protein.faa.gz’ saved [1734833/1734833]

--2022-06-14 16:59:59-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/002/095/265/GCF\_002095265.1\_B\_xinjiang1.0/GCF\_002095265.1\_B\_xinjiang1.0\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1090725 (1,0M) [application/x-gzip]

Saving to: ‘babesia\_sp.\_Xinjiang\_protein.faa.gz’

babesia\_sp.\_Xinjian 100%[===================>] 1,04M 1,24MB/s in 0,8s

2022-06-14 17:00:01 (1,24 MB/s) - ‘babesia\_sp.\_Xinjiang\_protein.faa.gz’ saved [1090725/1090725]

--2022-06-14 17:00:01-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/002/897/235/GCF\_002897235.1\_Bovata\_7.1/GCF\_002897235.1\_Bovata\_7.1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1927259 (1,8M) [application/x-gzip]

Saving to: ‘babesia\_ovata\_protein.faa.gz’

babesia\_ovata\_prote 100%[===================>] 1,84M 1,89MB/s in 1,0s

2022-06-14 17:00:02 (1,89 MB/s) - ‘babesia\_ovata\_protein.faa.gz’ saved [1927259/1927259]

--2022-06-14 17:00:02-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/165/345/GCF\_000165345.1\_ASM16534v1/GCF\_000165345.1\_ASM16534v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1440903 (1,4M) [application/x-gzip]

Saving to: ‘cryptosporidium\_parvum\_Iowa\_II\_protein.faa.gz’

cryptosporidium\_par 100%[===================>] 1,37M 1,66MB/s in 0,8s

2022-06-14 17:00:03 (1,66 MB/s) - ‘cryptosporidium\_parvum\_Iowa\_II\_protein.faa.gz’ saved [1440903/1440903]

--2022-06-14 17:00:04-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/006/425/GCF\_000006425.1\_ASM642v1/GCF\_000006425.1\_ASM642v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1108313 (1,1M) [application/x-gzip]

Saving to: ‘cryptosporidium\_hominis\_TU502\_protein.faa.gz’

cryptosporidium\_hom 100%[===================>] 1,06M 1,34MB/s in 0,8s

2022-06-14 17:00:05 (1,34 MB/s) - ‘cryptosporidium\_hominis\_TU502\_protein.faa.gz’ saved [1108313/1108313]

--2022-06-14 17:00:05-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/006/515/GCF\_000006515.1\_JCVI\_cmg\_v1.0/GCF\_000006515.1\_JCVI\_cmg\_v1.0\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1434203 (1,4M) [application/x-gzip]

Saving to: ‘cryptosporidium\_muris\_RN66\_protein.faa.gz’

cryptosporidium\_mur 100%[===================>] 1,37M 1,54MB/s in 0,9s

2022-06-14 17:00:06 (1,54 MB/s) - ‘cryptosporidium\_muris\_RN66\_protein.faa.gz’ saved [1434203/1434203]

--2022-06-14 17:00:06-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/001/865/345/GCF\_001865345.1\_ASM186534v1/GCF\_001865345.1\_ASM186534v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1443030 (1,4M) [application/x-gzip]

Saving to: ‘cryptosporidium\_ubiquitum\_protein.faa.gz’

cryptosporidium\_ubi 100%[===================>] 1,38M 1,56MB/s in 0,9s

2022-06-14 17:00:08 (1,56 MB/s) - ‘cryptosporidium\_ubiquitum\_protein.faa.gz’ saved [1443030/1443030]

--2022-06-14 17:00:08-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/014/529/505/GCA\_014529505.1\_ASM1452950v1/GCA\_014529505.1\_ASM1452950v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1362899 (1,3M) [application/x-gzip]

Saving to: ‘cryptosporidium\_felis\_protein.faa.gz’

cryptosporidium\_fel 100%[===================>] 1,30M 1,61MB/s in 0,8s

2022-06-14 17:00:09 (1,61 MB/s) - ‘cryptosporidium\_felis\_protein.faa.gz’ saved [1362899/1362899]

--2022-06-14 17:00:09-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/223/845/GCF\_000223845.1\_GNI3/GCF\_000223845.1\_GNI3\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1807362 (1,7M) [application/x-gzip]

Saving to: ‘gregarina\_niphandrodes\_protein.faa.gz’

gregarina\_niphandro 100%[===================>] 1,72M 1,94MB/s in 0,9s

2022-06-14 17:00:11 (1,94 MB/s) - ‘gregarina\_niphandrodes\_protein.faa.gz’ saved [1807362/1807362]

--2022-06-14 17:00:11-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/019/968/955/GCA\_019968955.1\_MNHN\_PgigA\_v1/GCA\_019968955.1\_MNHN\_PgigA\_v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1685870 (1,6M) [application/x-gzip]

Saving to: ‘porospora\_cf.\_gigantea\_A\_protein.faa.gz’

porospora\_cf.\_gigan 100%[===================>] 1,61M 1,94MB/s in 0,8s

2022-06-14 17:00:12 (1,94 MB/s) - ‘porospora\_cf.\_gigantea\_A\_protein.faa.gz’ saved [1685870/1685870]

--2022-06-14 17:00:12-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/019/968/985/GCA\_019968985.1\_MNHN\_PgigB\_v1/GCA\_019968985.1\_MNHN\_PgigB\_v1\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1725260 (1,6M) [application/x-gzip]

Saving to: ‘porospora\_cf.\_gigantea\_B\_protein.faa.gz’

porospora\_cf.\_gigan 100%[===================>] 1,64M 1,77MB/s in 0,9s

2022-06-14 17:00:14 (1,77 MB/s) - ‘porospora\_cf.\_gigantea\_B\_protein.faa.gz’ saved [1725260/1725260]

--2022-06-14 17:00:14-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/002/563/875/GCF\_002563875.1\_Bbes1.0/GCF\_002563875.1\_Bbes1.0\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 4035908 (3,8M) [application/x-gzip]

Saving to: ‘besnoitia\_besnoiti\_protein.faa.gz’

besnoitia\_besnoiti\_ 100%[===================>] 3,85M 2,82MB/s in 1,4s

2022-06-14 17:00:16 (2,82 MB/s) - ‘besnoitia\_besnoiti\_protein.faa.gz’ saved [4035908/4035908]

--2022-06-14 17:00:16-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/208/865/GCF\_000208865.1\_ASM20886v2/GCF\_000208865.1\_ASM20886v2\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 3564985 (3,4M) [application/x-gzip]

Saving to: ‘neospora\_caninum\_Liverpool\_protein.faa.gz’

neospora\_caninum\_Li 100%[===================>] 3,40M 2,92MB/s in 1,2s

2022-06-14 17:00:17 (2,92 MB/s) - ‘neospora\_caninum\_Liverpool\_protein.faa.gz’ saved [3564985/3564985]

--2022-06-14 17:00:18-- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/006/565/GCF\_000006565.2\_TGA4/GCF\_000006565.2\_TGA4\_protein.faa.gz

Resolving ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)... 130.14.250.10, 130.14.250.12, 2607:f220:41e:250::11, ...

Connecting to ftp.ncbi.nlm.nih.gov (ftp.ncbi.nlm.nih.gov)|130.14.250.10|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 4054452 (3,9M) [application/x-gzip]

Saving to: ‘toxoplasma\_gondii\_ME49\_protein.faa.gz’

toxoplasma\_gondii\_M 100%[===================>] 3,87M 1,69MB/s in 2,3s

2022-06-14 17:00:20 (1,69 MB/s) - ‘toxoplasma\_gondii\_ME49\_protein.faa.gz’ saved [4054452/4054452]

(base) leonid@leonid-Aspire-A315-42:~$

(base) leonid@leonid-Aspire-A315-42:~$ proteinortho plasmosium\_falciparum\_protein.faa plasmosium\_vivax\_protein.faa plasmosium\_gaboni\_protein.faa plasmosium\_knowlesi\_protein.faa plasmosium\_yoelii\_protein.faa plasmosium\_relictum\_protein.faa plasmosium\_reichenowi\_protein.faa plasmosium\_berghei\_ANKA\_protein.faa plasmosium\_chabaudi\_protein.faa plasmosium\_fragile\_protein.faa plasmosium\_gallinaceum\_protein.faa plasmosium\_coatneyi\_protein.faa plasmosium\_malariae\_protein.faa plasmosium\_vinckei\_protein.faa plasmosium\_sp.\_gorilla\_clade\_G2\_protein.faa plasmosium\_inui\_San\_Antonio\_1\_protein.faa plasmosium\_cynomolgi\_protein.faa eimeria\_mitis\_protein.faa eimeria\_necatrix\_protein.faa eimeria\_praecox\_protein.faa eimeria\_maxima\_protein.faa eimeria\_acervulina\_protein.faa eimeria\_brunetti\_protein.faa eimeria\_tenella\_protein.faa theileria\_annulata\_protein.faa theileria\_equi\_strain\_WA\_protein.faa theileria\_orientalis\_strain\_Shintoku\_protein.faa theileria\_parva\_strain\_Muguga\_protein.faa babesia\_bovis\_T2Bo\_protein.faa babesia\_microti\_strain\_RI\_protein.faa babesia\_bigemina\_protein.faa babesia\_sp.\_Xinjiang\_protein.faa babesia\_ovata\_protein.faa cryptosporidium\_parvum\_Iowa\_II\_protein.faa cryptosporidium\_hominis\_TU502\_protein.faa cryptosporidium\_muris\_RN66\_protein.faa cryptosporidium\_ubiquitum\_protein.faa cryptosporidium\_felis\_protein.faa gregarina\_niphandrodes\_protein.faa porospora\_cf.\_gigantea\_A\_protein.faa porospora\_cf.\_gigantea\_B\_protein.faa besnoitia\_besnoiti\_protein.faa neospora\_caninum\_Liverpool\_protein.faa toxoplasma\_gondii\_ME49\_protein.faa

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Proteinortho with PoFF version 6.0.14 - An orthology detection tool

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Detected 8 available CPU threads (adjust this with -cpus), Detected 'diamond' version 0.9.30

Checking input files.

Checking plasmosium\_falciparum\_protein.faa... ok

Checking plasmosium\_vivax\_protein.faa... ok

Checking plasmosium\_gaboni\_protein.faa... ok

Checking plasmosium\_knowlesi\_protein.faa... ok

Checking plasmosium\_yoelii\_protein.faa... ok

Checking plasmosium\_relictum\_protein.faa... ok

Checking plasmosium\_reichenowi\_protein.faa... ok

Checking plasmosium\_berghei\_ANKA\_protein.faa... ok

Checking plasmosium\_chabaudi\_protein.faa... ok

Checking plasmosium\_fragile\_protein.faa... ok

Checking plasmosium\_gallinaceum\_protein.faa... ok

Checking plasmosium\_coatneyi\_protein.faa... ok

Checking plasmosium\_malariae\_protein.faa... ok

Checking plasmosium\_vinckei\_protein.faa... ok

Checking plasmosium\_sp.\_gorilla\_clade\_G2\_protein.faa... ok

Checking plasmosium\_inui\_San\_Antonio\_1\_protein.faa... ok

Checking plasmosium\_cynomolgi\_protein.faa... ok

Checking eimeria\_mitis\_protein.faa... ok

Checking eimeria\_necatrix\_protein.faa... ok

Checking eimeria\_praecox\_protein.faa... ok

Checking eimeria\_maxima\_protein.faa... ok

Checking eimeria\_acervulina\_protein.faa... ok

Checking eimeria\_brunetti\_protein.faa... ok

Checking eimeria\_tenella\_protein.faa... ok

Checking theileria\_annulata\_protein.faa... ok

Checking theileria\_equi\_strain\_WA\_protein.faa... ok

Checking theileria\_orientalis\_strain\_Shintoku\_protein.faa... ok

Checking theileria\_parva\_strain\_Muguga\_protein.faa... ok

Checking babesia\_bovis\_T2Bo\_protein.faa... ok

Checking babesia\_microti\_strain\_RI\_protein.faa... ok

Checking babesia\_bigemina\_protein.faa... ok

Checking babesia\_sp.\_Xinjiang\_protein.faa... ok

Checking babesia\_ovata\_protein.faa... ok

Checking cryptosporidium\_parvum\_Iowa\_II\_protein.faa... ok

Checking cryptosporidium\_hominis\_TU502\_protein.faa... ok

Checking cryptosporidium\_muris\_RN66\_protein.faa... ok

Checking cryptosporidium\_ubiquitum\_protein.faa... ok

Checking cryptosporidium\_felis\_protein.faa... ok

Checking gregarina\_niphandrodes\_protein.faa... ok

Checking porospora\_cf.\_gigantea\_A\_protein.faa... ok

Checking porospora\_cf.\_gigantea\_B\_protein.faa... ok

Checking besnoitia\_besnoiti\_protein.faa... ok

Checking neospora\_caninum\_Liverpool\_protein.faa... ok

Checking toxoplasma\_gondii\_ME49\_protein.faa... ok

\*\*Step 1\*\*

Generating indices.

Building database for 'eimeria\_mitis\_protein.faa' (10073 sequences)

Building database for 'porospora\_cf.\_gigantea\_B\_protein.faa' (9035 sequences)

Building database for 'porospora\_cf.\_gigantea\_A\_protein.faa' (8895 sequences)

Building database for 'eimeria\_brunetti\_protein.faa' (8711 sequences)

Building database for 'eimeria\_necatrix\_protein.faa' (8609 sequences)

Building database for 'eimeria\_tenella\_protein.faa' (8609 sequences)

Building database for 'toxoplasma\_gondii\_ME49\_protein.faa' (8318 sequences)

Building database for 'besnoitia\_besnoiti\_protein.faa' (8220 sequences)

Building database for 'eimeria\_praecox\_protein.faa' (7635 sequences)

Building database for 'neospora\_caninum\_Liverpool\_protein.faa' (6934 sequences)

Building database for 'eimeria\_acervulina\_protein.faa' (6867 sequences)

Building database for 'gregarina\_niphandrodes\_protein.faa' (6375 sequences)

Building database for 'eimeria\_maxima\_protein.faa' (6057 sequences)

Building database for 'plasmosium\_yoelii\_protein.faa' (6039 sequences)

Building database for 'plasmosium\_malariae\_protein.faa' (5927 sequences)

Building database for 'plasmosium\_inui\_San\_Antonio\_1\_protein.faa' (5832 sequences)

Building database for 'plasmosium\_cynomolgi\_protein.faa' (5716 sequences)

Building database for 'plasmosium\_fragile\_protein.faa' (5671 sequences)

Building database for 'plasmosium\_coatneyi\_protein.faa' (5516 sequences)

Building database for 'plasmosium\_vivax\_protein.faa' (5392 sequences)

Building database for 'plasmosium\_falciparum\_protein.faa' (5384 sequences)

Building database for 'plasmosium\_gaboni\_protein.faa' (5354 sequences)

Building database for 'theileria\_equi\_strain\_WA\_protein.faa' (5327 sequences)

Building database for 'plasmosium\_knowlesi\_protein.faa' (5325 sequences)

Building database for 'plasmosium\_sp.\_gorilla\_clade\_G2\_protein.faa' (5321 sequences)

Building database for 'plasmosium\_gallinaceum\_protein.faa' (5280 sequences)

Building database for 'plasmosium\_reichenowi\_protein.faa' (5279 sequences)

Building database for 'plasmosium\_chabaudi\_protein.faa' (5158 sequences)

Building database for 'plasmosium\_relictum\_protein.faa' (5133 sequences)

Building database for 'babesia\_bigemina\_protein.faa' (5079 sequences)

Building database for 'plasmosium\_vinckei\_protein.faa' (5050 sequences)

Building database for 'babesia\_ovata\_protein.faa' (5031 sequences)

Building database for 'plasmosium\_berghei\_ANKA\_protein.faa' (4943 sequences)

Building database for 'theileria\_parva\_strain\_Muguga\_protein.faa' (4061 sequences)

Building database for 'theileria\_orientalis\_strain\_Shintoku\_protein.faa' (4002 sequences)

Building database for 'cryptosporidium\_muris\_RN66\_protein.faa' (3934 sequences)

Building database for 'cryptosporidium\_hominis\_TU502\_protein.faa' (3885 sequences)

Building database for 'cryptosporidium\_parvum\_Iowa\_II\_protein.faa' (3805 sequences)

Building database for 'theileria\_annulata\_protein.faa' (3795 sequences)

Building database for 'cryptosporidium\_felis\_protein.faa' (3775 sequences)

Building database for 'cryptosporidium\_ubiquitum\_protein.faa' (3766 sequences)

Building database for 'babesia\_bovis\_T2Bo\_protein.faa' (3706 sequences)

Building database for 'babesia\_microti\_strain\_RI\_protein.faa' (3601 sequences)

Building database for 'babesia\_sp.\_Xinjiang\_protein.faa' (3066 sequences)

\*\*Step 2\*\* using diamond

Running blast analysis: 100% (946/946)

[OUTPUT] -> written to myproject.blast-graph

\*\*Step 3\*\*

Clustering by similarity (Proteinortho mode) using up to 4402.5 MB of memory (75% of total memory) and 8 cpu core(s). Adjust this behaviour with the -mem option.

Reading myproject.blast-graph

44 species

198828 paired proteins

1526159 bidirectional edges

Done

[OUTPUT] -> Orthologous groups are written to myproject.proteinortho.tsv

[OUTPUT] -> Orthologous pairs are written to myproject.proteinortho-graph

[OUTPUT] -> Summary is written to myproject.proteinortho-graph.summary

[OUTPUT] -> You can extract a html version of the output using :

proteinortho2html.pl myproject.proteinortho.tsv [PLACE FASTA FILES HERE] >myproject.proteinortho.html

All finished.

(base) leonid@leonid-Aspire-A315-42:~$ bash /home/leonid/PycharmProjects/python/minor\_2022/project/supergroup/merge\_bed.sh

(base) leonid@leonid-Aspire-A315-42:~$ bash /home/leonid/PycharmProjects/python/minor\_2022/project/supergroup/intersect\_bed.sh