ess spec
Define your database schema

Command	Arguments	Description
spec reset		Wipes schema definitions
spec create database	dbname -ports	Adds a database entry. Specifies the number of ports to use, or if the number is between 10010 and 10079, the specific ports to use. Comma separated lists of port numbers is accepted
spec create table	name colspec	Adds a table entry to the active database
spec create vector	name colspec	Adds a vector entry to the active database
spec create variable	colspec	Adds a variable entry to the active database (only 1 allowed per spec)
spec drop database	name	Delete a database schema
spec drop table	name	Delete table from schema
spec drop vector	name	Delete vector from schema
spec drop variable		Delete variable from schema
spec use	dbname	Sets the active database. Subsequent table/vector/variable commands reference it
spec summary		Simply provide a summary of all known spec files
spec commit		Upload the schemas to the worker nodes.

ess udbd
This set of commands controls the udbd across all nodes.

Command	Arguments	Description
udbd start	[-ports]	Start daemons (ports optional..default is all ports specified in the schemas)
udbd stop	[-ports]	Stop daemons
udbd status	[-ports]	Get status
udbd restart	[-ports]	Stop and Start
udbd ckmem	[-ports]	Query the memory usage
udbd cklog	[-ports]	Query the log file for activity

ess datastore
These commands select the source of data, and maintain the database which stores an index of the files and their categories.

Command	Arguments	Description
datastore select	source -credentials | [--aws_access_key -aws_secret_access_key]	Select the datastore to use. Must be of the form : S3://bucket/path/to/data. The index file is created if none exists. If one exists, the index file is pulled to the master node.
datastore summary		Summarize the datastore by outputing all known categories of data, their column spec, and other useful information.
datastore scan		Scan the datastore, updating the index file.
datastore purge		Delete the local copy of the index file.
datastore push		Pushed the index file to the S3 bucket
datastore rule add	pattern category dateFormat	Add a new rule to the database and apply it.
datastore rule delete	ruleNumber	Deletes the specified rule number
datastore rule change	ruleNumber field newValue	Changes a rule
datastore probe	filename|categoryName -apply	Scans a file for type, compression, etc. optionally updates the category table with the information.
datastore category change	categoryName field newValue	Modified information about a category
datastore sql	command	applies an arbitrary sql command on the file database
datastore ls	pattern	Returns all files in the bucket that match the unix style glob pattern

ess task
New commands to launch jobs on worker nodes

Command	Arguments	Description
task stream	category startdate stopdate command -debug -master -threads -bulk	Import data from specified category between (and including) specified dates using the specified filter. Default is to execute on worker nodes. Data is streamed, one file at a time, to the given command
task exec	command -debug -threads -master	Execute a command or set of commands on the workers (or master if specified)

ess file
File transfer between worker and master

Command	Arguments	Description
file push		Upload a file to all workers
file fetch	log|dir|file	Get file from workers

ess instance
Core commands to setup the computing environment

Command	Arguments	Description
instance local	--ips	Start a local environment using the listed ip addresses as workers
instance ec2 create	--num --type	create ec2 instances
instance ec2 reuse	--reservation	reuse existing reservations
instance ec2 remove	--reservation	remove listed reservations from setup
instance ec2 add	--reservation	add additional reservations to the setup
instance ec2 terminate	all|reservation	terminate all instances or specific reservations
instance status	--reservation	status of current reservation or optionally of the given list
instance find	--instance	find reservations that hold a given instance

ess monitor		
Essentia monitoring commands		
`monitor tmon`		Task monitor
`monitor smon`	`start│stop│status│restart│` `cksize│cktime│purge│now`	System monitor

ess query	
Direct query of files	
`query 'select …'`	SQL style query. 'table' is defined as category:date1:date2, where category matches a classified category with the datastore command, and date1/2 is the date range you want to query

`ess -v│ --version`	Display Version number