

# Clustering Run Summary

## Ensemble: e-f721f410

SPD Model: wandb:goodfire/spd/runs/s-275c8f21

Date: 2026-02-19

## Pipeline Config

```
clustering_run_config_path: spd/clustering/configs/crc/s-275c8f21.json
create_git_snapshot: false
distances_methods:
- perm_invariant_hamming
n_runs: 3
slurm_job_name_prefix: spd
slurm_partition: h200-reserved
wandb_entity: goodfire
wandb_project: spd
```

## Clustering Run Config (shared across 3 runs)

```
model_path: wandb:goodfire/spd/runs/s-275c8f21
batch_size: 256
dataset_seeds: [0, 1, 2]
dataset_streaming: False
wandb: goodfire/spd
```

```
merge_config:
  activation_threshold: 0.1
  alpha: 1.0
  iters: 20000
  merge_pair_sampling_method: range
  merge_pair_sampling_kwargs.threshold: 0.001
  filter_dead_threshold: 0.1
  module_name_filter: None
```

```
logging_intervals:
  stat: 10
  tensor: 200
  plot: 2000
  artifact: 2000
```

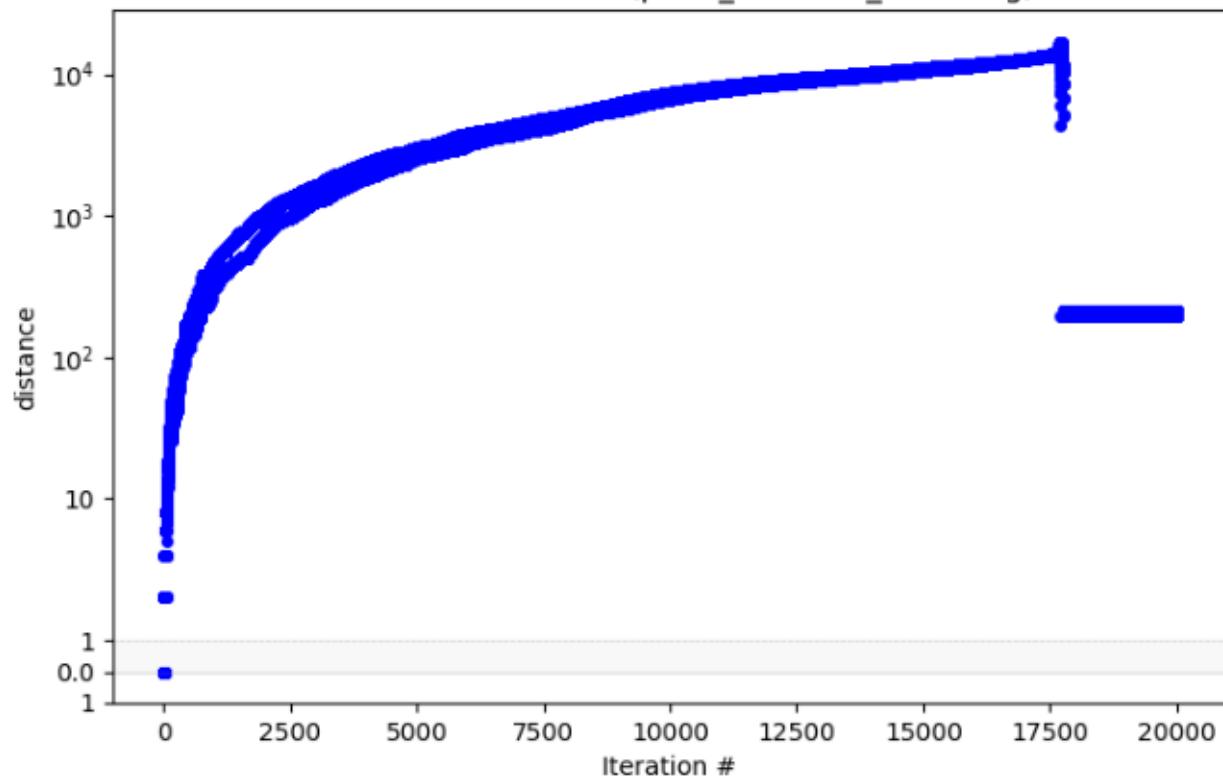
## Clustering Runs

```
c-21185feb (dataset_seed=0)
c-0bfaa364 (dataset_seed=1)
c-5c9d4f18 (dataset_seed=2)
```

## Component Breakdown (17866 total)

Module	Components
h.0.attn.k_proj	256
h.0.attn.o_proj	442
h.0.attn.q_proj	504
h.0.attn.v_proj	568
h.0.mlp.c_fc	2108
h.0.mlp.down_proj	1479
h.1.attn.k_proj	254
h.1.attn.o_proj	227
h.1.attn.q_proj	415
h.1.attn.v_proj	359
h.1.mlp.c_fc	591
h.1.mlp.down_proj	460
h.2.attn.k_proj	256
h.2.attn.o_proj	814
h.2.attn.q_proj	324
h.2.attn.v_proj	713
h.2.mlp.c_fc	1036
h.2.mlp.down_proj	1479
h.3.attn.k_proj	187
h.3.attn.o_proj	646
h.3.attn.q_proj	87
h.3.attn.v_proj	572
h.3.mlp.c_fc	1653
h.3.mlp.down_proj	2436
<b>Total</b>	<b>17866</b>

Distance Distribution (perm\_invariant\_hamming)



# **Output File Paths**

## **Ensemble Outputs**

```
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/ensembles/e-f721f410/distances_perm_invariant_hamming.npz  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/ensembles/e-f721f410/ensemble_merge_array.npz  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/ensembles/e-f721f410/ensemble_meta.json  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/ensembles/e-f721f410/pipeline_config.yaml  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/ensembles/e-f721f410/plots/distances_perm_invariant_hamming
```

## **Clustering Run Outputs**

```
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/runs/c-21185feb/clustering_run_config.json  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/runs/c-21185feb/history.zip  
  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/runs/c-0bfaa364/clustering_run_config.json  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/runs/c-0bfaa364/history.zip  
  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/runs/c-5c9d4f18/clustering_run_config.json  
/mnt/polished-lake/artifacts/mechanisms/spd/clustering/runs/c-5c9d4f18/history.zip
```