The PaLM Algorithm

Profile the spatial locality

- How to describe the spatial locality of an variable?
- X lives in Block B with size of B_size in the memory
- spatial_density(X) = avg_#_of_values_accessed(B, X) / B_size

- ** not clearly defined in the original paper*

The PaLM Algorithm

Cluster variables into temporal/spatial-cache-preferred

- Locality metrics we have:
- Avg_accesses_per_value(X), Avg_reuse_dist(X), spatial_density(X)