

AGRM + MDHG Function and Class Index

`AGRML_FULL_SYSTEM_FINAL_LIVE/sweep_scanner.py`

Classes:

- SweepScanner

Functions:

- __init__
- _compute_center
- _spiral_score
- scan
- get_ranked_nodes

`AGRML_FULL_SYSTEM_FINAL_LIVE/mdhg_hash (1).py`

Classes:

- MDHGHastTable

Functions:

- __init__
- _init_buildings
- put
- get
- remove
- _hash_to_building
- _hash_to_velocity_index
- get_stats

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/meta_evaluator.py`
```

Classes:

- MetaEvaluator

Functions:

- __init__
- _compute_center
- _assign_quadrants
- _classify_density
- get_zone
- get_quadrant
- get_hemisphere
- summary

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/Hash_testsuite.py`
```

Classes:

- HashTableBenchmark

Functions:

- run_benchmarks
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- _test_skewed_distribution
- _test_collision_resistance

- _test_sequential_access
- _test_load_factor_scaling
- _measure_operations
- plot_results
- _plot_operation_times
- _plot_load_factor_scaling
- print_summary
- _print_test_summary

```
## `AGRML_FULL_SYSTEM_FINAL_LIVE/agrm_path_engine.py`
```

Classes:

- AGRMPPathEngine

Functions:

- __init__

- `_precompute_distances`
- `_classify_density`
- `_get_candidates`
- `_recursive_path`
- `_validate_and_optimize`
- `solve`

`AGRML FULL SYSTEM FINAL LIVE/AGRML.py`

Classes:

- MDHGHashTable
- AGRMStateBus

- NavigatorGR
- AGRMEdgeValidator
- ModulationController
- PathBuilder
- SalesmanValidator
- PathAuditAgent
- AGRMController

Functions:

- __init__
- _initialize_buildings
- _calculate_dimension_sizes
- _initialize_structure
- _initialize_building_paths
- _generate_corner_points
- _initialize_building_shortcuts
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- _compute_hamiltonian_path
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- _hash_to_coords
- _hash_to_conflict_key

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- _resize
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- migrate_data
- update_sweep_data
- get_node_sweep_data

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- get_unvisited_nodes
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- add_salesman_proposal
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- clear_accepted_patches
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- _calculate_radii_and_angles
- _assign_shells_and_sectors
- _calculate_gr_sweep_scores
- _assign_quadrants_and_hemispheres
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- _check_sector_continuity

- `_check_phase_timing`
- `_check_curvature`
- `_check_distance_cap`
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- `select_cache`
- `trigger_migration_check`
- `update_controller_state`
- `get_current_legality_params`
- `process_salesman_feedback`
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- `_find_k_nearest_unvisited`
- `_find_reentry_node`
- `splice_patch_if_instructed`
- `__init__`
- `run_validation_and_patching`
- `__init__`
- `run_audit`
- `_calculate_global_metrics`
- `_run_simple_nn_baseline`
- `_analyze_patterns`
- `_generate_recommendations`
- `__init__`
- `solve`
- `calculate_total_path_cost`

```
## `AGRMLIVE/tsp_node_loader.py`
```

Classes:

- TSPNodeLoader

Functions:

- auto_load_tsp
- select_tsp_dataset
- __init__
- parse_file
- get_nodes
- summary

```
## `AGRMLIVE/agrm_profiler_diagnostics.py`
```

Classes:

- AGRMProfiler
- AGRMDiagnosticController

Functions:

- __init__
- mark
- start_timer
- stop_timer
- report
- print_report
- __init__

- set_param

- get_config

- print_config

`AGRMLIVE/agrm_results_export.py`

Functions:

- export_results_to_csv

- export_results_to_json

- plot_comparison_graph

`AGRMLIVE/agrm_runtime_controller.py`

Classes:

- AGMRuntimeController

Functions:

- __init__

- _evaluate_path

- run_cycle

- get_diagnostics

- get_best_path

- get_best_cost

`AGRMLIVE/agrm_cli_launcher.py`

Functions:

- main

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/agrm_cli_allrun.py`
```

Functions:

- run_agrm
- run_all_tests
- main

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/navigator_and_builder.py`
```

Classes:

- NavigatorGR
- BuilderAgent

Functions:

- __init__
- run_sweep
- _spiral_sort_key
- get_sweep_path
- trigger_reseed
- __init__
- build_path
- _smart_shuffle
- trigger_reroute
- get_last_path

```
## `AGRMLIVE/salesman_and_evaluator.py`
```

Classes:

- Salesman
- AGRMEvaluator

Functions:

- __init__
- scan_path
- _compute_total_distance
- get_total_distance
- collect_feedback
- __init__
- ingest_feedback
- apply_modulation_if_needed
- reset_required

```
## `AGRMLIVE/agrm_core.py`
```

Classes:

- AGRMCoreModulator

Functions:

- __init__
- compute_entropy_slope
- detect_shell_failure
- detect_entropy_floor
- should_trigger_reset

```
## `AGRMLegalGraph.py`
```

Classes:

- AGRMLegalGraph
- AGRMModulationController

Functions:

- __init__
- invalidate_edge
- is_legal
- neighbors
- __init__
- analyze_entropy
- _angle_between
- unlock_shell
- should_unlock
- trigger_global_unlock
- mark_shell_failure
- v
- dot
- mag

```
## `AGRMPATHBUILDER_DUAL.py`
```

Classes:

- AGRMPATHBUILDER_DUAL

Functions:

- invalidate_legality
- __init__
- build_path
- _distance
- get_last_path

`AGRUM_FULL_SYSTEM_FINAL_LIVE/agrm_spiral_reentry.py`

Classes:

- AGRMSpiralReentryEngine

Functions:

- __init__
- _compute_center
- generate_fallback_path
- _distance

`AGRUM_FULL_SYSTEM_FINAL_LIVE/agrm_core_loop.py`

Classes:

- AGRMCoreLoopController

Functions:

- __init__
- evaluate_path
- _dist
- run

```
## `AGRMLIVE/agrm_dynamic_midpoint.py`
```

Classes:

- AGRMDynamicMidpointDetector

Functions:

- __init__

- _compute_center

- detect

- _distance

```
## `AGRMLIVE/agrm_spiral_retention.py`
```

Classes:

- AGRTopXRetainer

Functions:

- __init__

- _compute_center

- retain_top_x

- _distance

```
## `AGRMLIVE/agrm_zone_collapse.py`
```

Classes:

- AGRMRecursiveZoneCollapse

Functions:

- `__init__`
- `_compute_center`
- `collapse_shells`
- `_group_by_shell`
- `_distance`

```
## `AGRMLIBRARY/agrm_distance_cap.py`
```

Classes:

- `AGRMDistanceCapByShell`

Functions:

- `__init__`
- `_compute_center`
- `_compute_shell_thresholds`
- `shell_index`
- `is_within_cap`
- `_dist`

```
## `AGRMLIBRARY/agrm_quadrant_legality.py`
```

Classes:

- `AGRMLibQuadrantLegality`

Functions:

- `__init__`
- `_compute_center`
- `_quadrant`

- is_crossing_illegal

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/agrm_zone_density.py`
```

Classes:

- AGRMZoneDensityClassifier

Functions:

- __init__

- _compute_center

- _distance

- _classify_nodes

- shell_density

- shell_members

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/agrm_phase_reverse_builder.py`
```

Classes:

- AGRMPhaseAwareReverseBuilder

Functions:

- __init__

- _compute_center

- _map_quadrants

- build_reverse

- _dist

```
## `AGRUM_FULL_SYSTEM_FINAL_LIVE/agrm_anchor_reset.py`
```

Classes:

- AGRMAAnchorReselector

Functions:

- __init__
- _compute_center
- find_new_anchor

`AGRMLIVE/agrm_complexity_modulator.py`

Classes:

- AGRMComplexityWeightedModulator

Functions:

- __init__
- compute_weights
- _angle_between
- _normalize
- get_high_complexity_nodes
- print_summary
- vec
- dot
- mag

`AGRMLIVE/agrm_diagnostics.py`

Error: unexpected character after line continuation character (agrm_diagnostics.py, line 58)

```
## `AGRMLIVE/agrm_modulation_brain.py`
```

Error: unexpected character after line continuation character (agrm_modulation_brain.py, line 75)

```
## `AGRMLIVE/agrm_feedback_bus.py`
```

Classes:

- AGRMFeedbackBus

Functions:

- __init__
- broadcast
- collect_all
- log_failure
- get_memory_map
- get_most_failed_nodes
- print_summary

```
## `AGRMLIVE/agrm_adaptive_builder.py`
```

Classes:

- AGRMAgentBuilder

Functions:

- __init__
- build_path
- get_last_path
- _dist

```
## `cmplx-core (2)/cmplx-core/cli/gpt-cmplx.py`
```

Functions:

- load_config
- estimate_tokens
- chunk_document
- reflect_chunk
- save_reflection
- run_ingestion

```
## `cmplx-core (2)/cmplx-core/cli/schema_version_manager.py`
```

Functions:

- load_schema
- save_schema
- bump_version
- update_schema