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```
wasys::lib::generic_object_pool
                                                                        «entity»
                                                              Generic Object Pool Policy
 +DEF MAX OBJ COUNT:int := 64 {final}
 +DEF MIN OBJ COUNT: int := 0 {final}
+DEF OBJ CREATION POLICY: Full Pool Object Creation Policy := Create New No Pooling {final}
+DEF INS: Generic Object Pool Policy=new Generic Object Pool Policy(DEF MAX OBJ COUNT, DEF MIN OBJ COUNT, DEF OBJ CREATION POLICY) {final
 +min_object_count:int {final}
 +max_object_count:int {public-readonly} {package-settable}
 -full_pool_instancing_policy:Full_Pool_Object_Creation_Policy {final}
 +Generic_Object_Pool_Policy(arg_min_obj_count:int,arg_max_obj_count:int,:Full_Pool_Object_Creation_Policy):Generic_Object_Pool_Policy
                                                                                  A:Poolable_Object_
                                 Object_Pool_Type_Wrapper
                                           {leaf}
 -pool:Object_Pool {final}
 +Object_Pool_Type_Wrapper(:Object_Factory,
                                                                                                                               «enum»
                            :Generic_Object_Pool_Policy,
                                                                                                                 Full Pool Object Creation Policy
                           arg_thread_safe:bool,
                           arg_register_pool:bool):Object_Pool_Type_Wrapper
                                                                                                             Return Null
                                                                                                             Create_New_No_Pooling
                                                                                                             Create_New_Extend_Pool_Size
                                                                                                             Wait Till One Free
      «creates»
                       | «uses»
                                                                                                                      «interface»
                                                                                                                      Object Pool
                               «singleton(eager)»
                                                                                                 +get_an_instance(void):Poolable_Object
                                   Pool_Context
                                                                                                 +release_an_instance(:Poolable_Object):void
                                      {leaf}
                                                                                      В
                                                                                               +idle_objects_count(void):int
 _-INSTANCE:Pool_Context = new Pool_Context()_ {final}
                                                                                                 +available_objects_count(void):int
 -ctx:ArrayList<Generic_Object_Pool> = new ArrayList() {final}
                                                                                                 +working_object_count(void):int
 -Pool_Context(void):Pool_Context
                                                                                      D
                                                                                                 +shutdown_pool(void):void
 +get_instance(void):Pool_Context
                                                                                                 +pool_is_working(void):bool
 +get_pool_unregistered_synced(:Object_Factory,
:Generic_Object_Pool_Policy):Object_Pool {synchronized}
                                                                                                 +is_registered(void):bool
                                                                                                 +get_policy(void):Generic_Object_Pool_Policy
 +get_pool_registered_synced(:Object_Factory,
                :Generic_Object_Pool_Policy):Object_Pool {synchronized}
 +get_pool(:Object_Factory,:Generic_Object_Pool_Policy,
            arg thread safe:bool,
            arg_register:bool):Object_Pool {synchronized}
 +unregister_pool(:Object_Pool,arg_shutdown_pool:bool):void {synchronized}
                                                                                                                  «thread-safe»
                                                                                                         Generic_Object_Pool_Safe_Guard
                                                                                          -pool:Object_Pool {final}
                                Lock on associated pool
                                                                              «creates»
                                                                                          ~Generic_Object_Pool_Safe(:Object_Pool,
                                may be applied by some
                                methods
                                                                                                                    ):Generic Object Pool Safe
                 «holds»
                                                        «interface»
                                                         java::lang
                                                         Runnable
                                                                                                                                 E
                                                                                                                         D
                                                                                                                                        java::lang
 «creates»
                                                                                                                                        AutoClosablei
                                                                               api
                                   «pool»
                            Generic Object Pool
                                                                                          «interface»
                                                                                                                                  «abstract»
 -factory:Object_Factory {final}
                                                                                        Poolable Object
                                                                                                                           Poolable_Object_Adapter
 -policy:Generic_Object_Pool_Policy {final}
                                                                                                                        #pool:Object_Pool
 -pool:ArrayList<Poolable_Object>
                                                                                +post_create(void):void
 -working ins count:int := 0
                                                                                +pre_destroy(void):void
                                                                                                                         +reset_state(void):void
 -pool_working:bool := true {volatile}
                                                                                                                         +close():void{final}
                                                                                +reset state(void):void
 -notify_thread_run:Runnable := new Runnable() {final}
                                                                                +set_pool(:Object_Pool):void
 -NULL_RUN:Runnable := new Runnable() {final}
 -release_obj_run:Runnable {final}
 -registered:bool
                                                                                                («creates»)
 -mutex:Object:=new Object(){final}
 ~Generic Object Pool(:Object Factory,
                                                                               «holds»
                                                                                                                           «interface»
                      :Generic Object Pool Policy):Generic Object Pool
                                                                                                                         Object_Factory
 -init pool(void):void
 ~get_factory(void):Object_Factory
                                                                                                         +create_object(void):Poolable_Object
                                                                                        «uses»
 ~set_as_registered(:bool):void
 ~get_policy(void):Generic_Object_Pool_Policy
```