

Table 1: **Comparison of MoEA with Jarvis-1 and Optimus-1 on 71 tasks across 9 task groups.** n_T indicates the number of evaluation times per task. MoEA outperforms Jarvis-1 and achieves competitive results with Optimus-1.

Group	task	MoEA	JARVIS-1	Optimus-1	n_T
Aram	shield	0.5303	0.3939	0.4333	66
	iron_helmet	0.5758	0.303	0.5814	33
	golden_boots	0.0617	0.0617	0.0606	81
	golden_helmet	0.1067	0.0533	0.125	75
	diamond_helmet	0.0429	0.0429	0.0208	70
	diamond_boots	0.0800	0.0533	0.1667	75
Redstone	dropper	0.2658	0.2278	0.375	79
	note_block	0.2840	0.2239	0.2432	81
	compass	0.1139	0.0759	0.15	79
	activator_rail	0.1429	0.0159	0.1568	63
	piston	0.3038	0.1772	0.2857	79
	redstone_torch	0.2809	0.2584	0.2963	89
Golden	gold_ingot	0.1571	0.1449	0.1642	70
	golden_axe	0.0625	0.0469	0.0444	64
	golden_hoe	0.0580	0.058	0.0333	69
	golden_sword	0.0353	0.0476	0.0333	85
	golden_shovel	0.0822	0.0822	0.098	73
	golden_pickaxe	0.0909	0.0526	0.1375	77
Diamond	diamond_pickaxe	0.0882	0.0622	0.1571	692
	diamond_shovel	0.1250	0.1136	0.1875	88
	diamond_sword	0.1237	0.1134	0.1452	97
	diamond_hoe	0.0588	0.0441	0.0461	68
	diamond	0.0962	0.092	0.0909	728
	jukebox	0.1266	0.1053	0.1458	79
	diamond_axe	0.0845	0.0986	0.04	71
Iron	iron_pickaxe	0.3676	0.3382	0.5942	68
	bucket	0.4286	0.381	0.5429	42
	hopper	0.4918	0.3077	0.4667	65
	iron_sword	0.5753	0.3288	0.5714	73
	smithing table	0.4306	0.3611	0.4493	72
	chain	0.4576	0.3729	0.4493	59
	rail	0.3710	0.3226	0.4219	62
	shears	0.5781	0.25	0.5362	64
	iron_shovel	0.3944	0.338	0.5479	71
	tripwire_hook	0.4833	0.45	0.4857	60
	iron_bars	0.3396	0.3208	0.42	53
	iron_nugget	0.3881	0.3582	0.3099	67
	iron_door	0.3433	0.2836	0.483	67
	iron_trapdoor	0.3836	0.3151	-	73
	crossbow	0.1429	0.047	-	63
Stone	furnace	0.9565	0.942	0.9375	69
	smoker	0.8000	0.7867	-	75
	stone_shovel	0.9459	0.8514	0.9032	74
	stone_pickaxe	0.9452	0.9118	0.9677	73
	charcoal	0.9079	0.8947	0.8857	76
	stone	0.8730	0.8413	0.8571	63
	stone_hoe	0.9459	0.9459	0.9464	74
	stone_sword	0.9877	0.8831	0.9429	81
	stone_axe	1.0000	0.9123	0.9688	57
Wooden	chest	1.0000	0.9155	1	71
	oak_fence	0.9667	0.8	-	60
	boat	0.9259	0.6047	-	54
	wooden_shovel	0.9722	0.9028	0.95	72
	wooden_pickaxe	0.9677	0.9516	1	62
	stick	0.9767	1	0.9714	86
	crafting_table	0.9853	0.9706	0.9855	68
	wooden_sword	1.0000	0.9242	1	66
	bowl	0.9574	0.9149	1	47
	ladder	0.9868	0.9737	-	76
	barrel	0.8947	0.7544	-	57
	composter	0.8936	0.7872	-	47
	wooden_axe	0.9636	0.8909	-	55
	cooked_chicken	0.5448	0.3562	-	63
Food	cooked_porkchop	0.4286	0.3968	-	63
	cooked_beef	0.4921	0.2857	-	63
Decoration	yellow_dye	0.5000	0.2333	-	30
	white_dye	0.3824	0.1471	-	34
	item_frame	0.4286	0.2143	-	28
	white_carpet	0.8571	0.6857	-	35
	white_banner	0.7097	0.0968	-	31
	pink_wool	0.5200	0.4	-	25