

# Comparaison des performances du planificateur HSP et du planificateur MCTS

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In [11]:

```
import pandas as pd
import matplotlib.pyplot as plt

data = pd.read_csv('data.csv')

# split the data based on Planner
hsp_data = data[data['Planner'] == 'HSP']
mcts_data = data[data['Planner'] == 'MCTS']

domains = ['blocksworld', 'depots', 'gripper', 'logistics']
metrics = ['Runtime', 'Makespan']

for domain in domains:
    hsp_domain_data = hsp_data[hsp_data['Domain'] == domain]
    mcts_domain_data = mcts_data[mcts_data['Domain'] == domain]

    for metric in metrics:
        # sort the data by problem number
        hsp_sorted = hsp_domain_data.sort_values(by='Problem')
        mcts_sorted = mcts_domain_data.sort_values(by='Problem')

        plt.figure(figsize=(10, 6))
        plt.plot(hsp_sorted['Problem'], hsp_sorted[metric], label='HSP')
        plt.plot(mcts_sorted['Problem'], mcts_sorted[metric], label='MCTS')
        plt.xlabel('Problems')
        plt.ylabel(metric)
        plt.title(f'{domain} - {metric}')
        plt.legend()
        plt.xticks(rotation=45)
        plt.tight_layout()
        plt.show()
```







