

```
#!/bin/bash
```

```
# Create a log file
```

```
LOG_FILE="execution_log.json"
```

```
echo "[]" > $LOG_FILE
```

```
# Function to execute a file and log the result
```

```
execute_file() {
```

```
    local file=$1
```

```
    local start_time=$(date +%s)
```

```
    # Execute the file
```

```
    if bash "$file"; then
```

```
        status="success"
```

```
    else
```

```
        status="failure"
```

```
    fi
```

```
    local end_time=$(date +%s)
```

```
    local duration=$((end_time - start_time))
```

```
# Log the result in JSON format
```

```
log_entry=$(jq -n \
```

```
    --arg file "$file" \
```

```
    --arg status "$status" \
```

```
    --arg duration "$duration" \
```

```
{file: $file, status: $status, duration: $duration})
```

```
# Append to the log file
```

```
echo "$log_entry" >> $LOG_FILE
```

```
}
```

```
export -f execute_file
```

```
# Find all shell scripts in the examples folder and run them in parallel
```

```
find examples/ -type f -name "*.sh" | parallel -j 4 execute_file
```

```
# Output the final log
```

```
cat $LOG_FILE
```