

المعدن

بااستخدام `torch` اداء للاختبار کود هو أدنى.

```
import torch
import argparse
import time

parser = argparse.ArgumentParser(description=(torch)      "      MPS      CPU.")
parser.add_argument("--device", type=str, default="mps", choices=["mps", "cpu"], help= "      (MPS      CPU)")
args = parser.parse_args()

if args.device == "mps":
    if torch.backends.mps.is_available():
        print("Metal "  (
            device = torch.device("mps")
    else:
        print("Metal      ,      CPU      "  (
            device = torch.device("cpu")

elif args.device == "cpu":
    device = torch.device("cpu")
    print(      " CPU")

else:
    print(      ,      CPU      "  (
        device = torch.device("cpu")

#
x = torch.randn(5000, 5000, device=device)
y = torch.randn(5000, 5000, device=device)

#
start_time = time.time()
result = torch.matmul(x, y)
for _ in range(10):
    result = torch.matmul(result, y)
end_time = time.time()

#
print(result)
print(f"      :      {end_time - start_time:.4f}  " (
```

على الوقت من 0.2 حوالى فقط هو على الالتنفيذ وقت. من بكثير اسرع أن توضح الالنتائج.

```
% python scripts/test_metal.py --device cpu
```

```
: 2.8784
```

```
% python scripts/test_metal.py --device mps
```

```
: 0.0061
```