

GitHub Actions x Multiarch

Elizabeth K. Joseph, IBM

GitHub Actions workflow file for x86_64

```
name: C CI x86_64

on: [push]

jobs:
  build_x86:
    runs-on: ubuntu-24.04

    name: Build on ubuntu-24.04 for x86_64

    steps:
      - uses: actions/checkout@v5

      - name: Run make commands

        run: |
          ./configure

          make

          make check
```

GitHub Actions workflow file for arm64

```
name: C CI arm64

on: [push]

jobs:
  build_arm64:
    runs-on: ubuntu-24.04-arm

    name: Build on ubuntu-24.04 for arm64

    steps:
      - uses: actions/checkout@v5

      - name: Run make commands

        run: |
          ./configure

          make

          make check
```

GitHub Actions workflow file *emulated* s390x

```
name: C CI s390x emulated
```

```
on: [push]
```

```
jobs:
```

```
  build_s390x_gemu:
```

```
    runs-on: ubuntu-24.04
```

```
    name: Build on ubuntu-24.04 s390x (emulated)
```

```
    steps:
```

```
      - uses: actions/checkout@v5
```

```
      - uses: uraimo/run-on-arch-action@v3
```

```
        name: Run make commands
```

```
      with:
```

```
        arch: s390x
```

```
        distro: ubuntu24.04
```

```
        install: |
```

```
          apt-get update
```

```
          apt-get install -y gcc libc-dev make
```

```
      run: |
```

```
        ./configure
```

```
        make
```

```
        make check
```

GitHub Actions workflow file for s390x

```
name: C CI s390x

on: [push]

jobs:
  build_s390x:
    runs-on: ubuntu-24.04-s390x

    name: Build on ubuntu-24.04 for s390x

    steps:
      - uses: actions/checkout@v5

      - name: Run make commands
        run: |
          ./configure

          make

          make check
```



Apply for the free hosted GitHub Actions service
for IBM Power and IBM Z & LinuxONE:

<https://github.com/IBM/actionspsz>

@pleia2@floss.social & princessleia.com

Success!

The image shows a screenshot of a GitHub Actions workflow run. On the left, the 'Summary' tab is active, displaying a list of four jobs, all of which completed successfully. The jobs are: 'Build on ubuntu-24.04 for x86_64', 'Build on ubuntu-24.04 for ARM64', 'Build on ubuntu-24.04 s390x (emulated)', and 'Build on ubuntu-24.04 for s390x'. Below the jobs list, there are links for 'Run details', 'Usage', and 'Workflow file'. On the right, a summary bar indicates the workflow was triggered via a push 8 minutes ago, by user 'pleia2' on the '1ca1d10' branch of the 'master' branch. The status is 'Success' and the total duration is '3m 35s'. Below this, a detailed view of the 'c-ci.yml' workflow is shown, with the trigger set to 'on: push'. A list of four jobs is displayed, all with green checkmarks and their respective durations: 'Build on ubuntu-24.04 for ... 8s', 'Build on ubuntu-24.04 for... 14s', 'Build on ubuntu-24.04 ... 3m 30s', and 'Build on ubuntu-24.04 for... 18s'.

Summary

All jobs

- ✓ Build on ubuntu-24.04 for x86_64
- ✓ Build on ubuntu-24.04 for ARM64
- ✓ Build on ubuntu-24.04 s390x (emulated)
- ✓ Build on ubuntu-24.04 for s390x

Run details

- Usage
- Workflow file

Triggered via push 8 minutes ago

Status: **Success**

Total duration: **3m 35s**

c-ci.yml
on: push

- ✓ Build on ubuntu-24.04 for ... 8s
- ✓ Build on ubuntu-24.04 for... 14s
- ✓ Build on ubuntu-24.04 ... 3m 30s
- ✓ Build on ubuntu-24.04 for... 18s

See: <https://github.com/pleia2/vitetriss/actions>