

DefineVisits

March 8, 2022

```
[1]: from lsst.daf.butler import Butler
    from lsst.obs.base import DefineVisitsTask, Instrument

[2]: # I think we're talking about ComCam data, right?
    # This collections list would work at NCSA, but I suspect it will need
    # ↪adjustment
    # elsewhere. Needs to include both the raws and the `camera` dataset.
    butler = Butler(
        "/repo/LSSTComCam/",
        collections=["LSSTComCam/raw/all"],
        writeable=True
    )

[3]: intra_exposure_id = 2022030800001
    extra_exposure_id = 2022030800002

[4]: # Replace "???" below by a query string that corresponds to all wavefront
    # ↪observations.
    exposure_data_ids = set(
        butler.registry.queryDataIds(
            [
                "exposure"
            ],
            where=f"exposure IN ({intra_exposure_id}, {extra_exposure_id})"
        )
    )

[5]: exposure_data_ids

[5]: [{instrument: 'LSSTComCam', exposure: 2022030800001, ...},
    {instrument: 'LSSTComCam', exposure: 2022030800002, ...}]

[6]: instrument = Instrument.fromName("LSSTComCam", registry=butler.registry)

[7]: config = DefineVisitsTask.ConfigClass()

[8]: instrument.applyConfigOverrides(DefineVisitsTask._DefaultName, config)
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[9]: config.groupExposures.name = "one-to-one"

[10]: task = DefineVisitsTask(config=config, butler=butler)

[11]: task.run(exposure_data_ids)

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[ ]: data_id = {'instrument': 'LSSTComCam', 'detector': 0, 'exposure': 2022012800009}

[ ]: metadata = butler.get('raw.visitInfo', dataId=data_id, collections=["LSSTComCam/
↳ raw/all"])
print(metadata)

[ ]:

```