

# Appendix: `total_trade_CPC` module

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This module aggregates total trade flow by reporting country for partners countries to a single total trade for each unique CPC commodity code. The module saves the output into the dataset `total\_trade\_cpc\_m49`, within the `trade` domain.

## Parameters

- `year`: year for processing.

## Import Data from Complete TF CPC

Import monetary values and quantities from data previously generated by the `complete_tf_cpc` module.

1. 5608: Import Quantity (heads)
2. 5609: Import Quantity (1000 heads)
3. 5610: Import Quantity (tonne)
4. 5908: Export Quantity (heads)
5. 5909: Export Quantity (1000 heads)
6. 5910: Export Quantity (tonne)
7. 5622: Imports (US\$)
8. 5922: Exports (US\$)

## Aggregate values across partner dimension

- ignore missing values in aggregation
- aggregate flags using the `flagWeightTable`

flagObservationStatus	flagObservationWeights
	1.00
T	0.80
E	0.75
I	0.50
M	0.00

## Calculate Unit Values

Calculate unit value (US\$ per quantity unit) at CPC level if the quantity is larger than zero

1. 5630: Import Unit Value (US\$ / tonne)
  2. 5638: Import Unit Value (US\$ / heads)
  3. 5639: Import Unit Value (US\$ / 1000 heads)
  4. 5930: Export Unit Value (US\$ / tonne)
  5. 5938: Export Unit Value (US\$ / heads)
  6. 5939: Export Unit Value (US\$ / 1000 heads)
- use `flagObservationsStatus` from quantity measures
  - set `flagMethod` to `i` for unit values calculated as identity

Save the `total_trade_cpc_m49` dataset to the trade domain