

when calculating impulse, the first step is to break the signal into two signals which only contain positive or negative values.

note that this script makes use of the [current_signal](#) function within evaluate expression.

```
! set all frames for all three components to data not found for any frame
!   above zero

evaluate_expression
/expression= ( current_signal < 0 ) / ( current_signal < 0 ) *
current_signal
/signal_types=link_model_based
/signal_folder=original
/signal_names=rgrf+lgrf
! /result_types=derived
/result_folders=impulse
/result_name=_neg
/apply_as_suffix_to_signal_name=true
;

! set all frames for all three components to data not found for any frame
!   below zero

evaluate_expression
/expression=( current_signal > 0 ) / ( current_signal > 0 ) * current_signal
/signal_types=link_model_based
/signal_folder=original
/signal_names=rgrf+lgrf
! /result_types=derived
/result_folders=impulse
/result_name=_pos
/apply_as_suffix_to_signal_name=true
;

! integrate over stance

metric_integrate
/result_metric_folder=impulse
/result_metric_name=
/apply_as_suffix_to_signal_name=true
/signal_types=derived+derived
/signal_folder=impulse+impulse
/signal_names=rgrf_neg+rgrf_pos
/component_sequence=all
/event_sequence=ron+roff
/exclude_events=
/sequence_percent_start=
/sequence_percent_end=
! /generate_mean_and_stddev=true
```

```
! /append_to_existing_values=false
;

metric_integrate
/result_metric_folder=impulse
/result_metric_name=
/apply_as_suffix_to_signal_name=true
/signal_types=derived+derived
/signal_folder=impulse+impulse
/signal_names=lgrf_neg+lgrf_pos
/component_sequence=all
/event_sequence=lon+loff
/exclude_events=
/sequence_percent_start=
/sequence_percent_end=
! /generate_mean_and_stddev=true
! /append_to_existing_values=false
;
```

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