

pkGen

Generate a formatted command packet for the Herkulex motor input

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Syntax

```
packet = pkGen(pID,CMD,data)
```

Description

packet = pkGen(pID,CMD,data) returns the preferable formatted command packet.

- pID: motor ID
- CMD: '0X' (EEPW 01, EEPR 02, RAMW 03, RAMR 04, IJOG 05, SJOG 06, STAT 07, ROLLBACK 08, REBOOT 09)
- Data in "Address-Length-Arguments" format, data: Data[0], Data[1], ..., Data[n]. Eg, '350101'

Refer to Herkulex Manual pg44 for packet format.

Input Arguments

- pID - integer
- CMD - string
- data - string

Output Arguments

- packet - string

Function Codes

```
function packet = pkGen(pID,CMD,data)

    header = 'FFFF';
```

```
    packetSize = dec2hex(length(data)/2+7, 2); % (Length of data) adding to default 7
    bytes of packet elements

    inString = strcat(packetSize,dec2hex(pID,2),num2str(CMD, '%.2x'),data);

    c1 = chkSum1(inString);

    c2 = chkSum2(c1);

    packet = strcat(header,inString(1:6),c1,c2,inString(7:end));

end
```