





























































pdb2fyu\_07.ps







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# Distorted geometry pdb2fyu

### Main-chain bond lengths

CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.063	0.064	0.066	0.063	0.054	0.070
1.603	1.604	1.605	1.603	1.594	1.610
A Val 11	A Val 16	A Val 25	A Ile 41	A Val 59	A Ile 99
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.055	0.106	0.059	0.051	0.056	0.066
1.595	1.646	1.599	1.591	1.596	1.606
A Val 110	A Ile 127	A Val 133	A Ile 134	A Val 167	A Val 196
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.064	0.061	0.055	0.068	0.058	0.054
1.604	1.601	1.595	1.608	1.598	1.594
A Val 228	A Ile 255	A Val 272	A Ile 276	A Ile 277	A Ile 297
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.058	0.054	0.052	0.052	0.065	0.062
1.598	1.594	1.592	1.592	1.605	1.602
A Ile 312	A Val 325	A Ile 331	A Val 366	A Ile 390	A Val 422
CA 1.540 CB 0.056 1.595 A Ile 428	CA 1.540 CB 0.052 1.592 B Val 17	CA 1.540 CB 0.054 1.594 B Ile 47	CA 1.540 CB 0.052 1.592 B Ile 51	CA 1.540 CB 0.062 B Ile 89	CA 1.540 CB 0.053 1.593 B Val 98
CA 1.540 CB	CA 1.525	CA 1.540 CB	N 1.458 CA	CA 1.540	CA 1.540 CB
0.053	0.050	0.078	0.059	0.056	0.076
1.593	1.575	1.618	1.517	1.596	1.616
B Ile 118	B Ala 129	B Ile 146	B Ala 171	B Ile 183	B Val 186
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.521 CB	CA 1.540 CB
0.062	0.069	0.060	0.093	0.058	0.054
1.602	1.609	1.600	1.633	1.579	1.594
B Val 189	B Val 195	B Val 215	B Ile 226	B Ala 259	B Val 278
CA 1.540 CB 0.050 1.590 B Val 285	CA 1.540 CB 0.066 1.606 B Val 303	CA 1.540 CB 0.053 1.592 B Val 336	CA 1.540 CB 0.065 B Ile 337	CA 1.540 0.064 B Val 372	CA 1.540 CB 0.060 1.600 B Thr 397
CA 1.540 CB	CA 1.540 CB	N 1.458 CA	CA 1.540	CA 1.540 CB	CA 1.540 CB
0.052	0.073	0.058	0.052	0.069	0.061
1.592	1.613	1.516	1.592	1.609	1.601
B Val 418	B Ile 436	B Ile 436	C Thr 2	C Ile 4	C Ile 13
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.054	0.064	0.066	0.052	0.059	0.059
1.594	1.604	1.606	1.592	1.599	1.599
C Val 14	C Ile 19	C Ile 39	C Ile 42	C Val 66	C Ile 69
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.052	0.054	0.098	0.058	0.091	0.077
1.592	1.594	1.638	1.598	1.631	1.617
C Val 73	C Ile 79	C Ile 92	C Ile 115	C Val 123	C Ile 146

## Distorted geometry pdb2fyu

### Main-chain bond lengths (contd)

CA 1.521 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.051	0.057	0.071	0.063	0.053	0.056
1.470	1.597	1.611	1.603	1.593	1.596
C Ala 152	C Ile 153	C Ile 164	C Val 170	C Ile 188	C Ile 189
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.065	0.051	0.071	0.065	0.055	0.076
1.605	1.591	1.611	1.605	1.595	1.615
C Ile 192	C Val 195	C Val 215	C Ile 236	C Val 243	C Ile 268
CA 1.540 CB	CA 1.540 CB	CA 1.525 C	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.071	0.054	0.051	0.051	0.053	0.054
1.611	1.594	1.576	1.591	1.593	1.594
C Ile 284	C Ile 300	C Ile 304	C Ile 304	C Ile 338	C Val 343
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.071	0.073	0.058	0.066	0.061	0.068
1.611	1.613	1.598	1.606	1.601	1.608
C Ile 348	C Ile 350	C Ile 362	C Val 364	C Ile 372	D Ile 26
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.060	0.053	0.060	0.073	0.059	0.061
1.600	1.593	1.600	1.613	1.599	1.601
D Val 32	D Val 36	D Val 46	D Val 52	D Val 54	D Val 68
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.058	0.058	0.050	0.062	0.065	0.088
1.598	1.598	1.590	1.602	1.605	1.628
D Val 70	D Ile 116	D Val 117	D Val 141	D Ile 158	D Val 168
CA 1.525 C 0.050 1.575 D Thr 175	CA 1.540 CB 0.053 1.593 D Thr 175	CA 1.540 CB 0.064 1.604 D Val 219	CA 1.540 CB 0.070 1.610 D Val 229	CA 1.540 CB 0.062 E Ile 5	CA 1.540 CB 0.059 1.599 E Val 7
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.052	0.060	0.067	0.060	0.065	0.061
1.592	1.600	1.607	1.600	1.605	1.601
E Thr 22	E Val 39	E Val 45	E Val 47	E Val 55	E Val 59
CA 1.540 CB 0.076 1.616 E Val 68	CA 1.540 CB 0.057 1.597 E Ile 74	CA 1.540 CB 0.061 1.601 E Ile 76	CA 1.540 0.065 E Ile 81	CA 1.540 CB 0.060 1.600 E Val 98	CA 1.540 CB 0.073 1.613 E Ile 106
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.057	0.067	0.055	0.081	0.057	0.053
1.597	1.607	1.595	1.621	1.597	1.593
E Val 112	E Val 114	E Val 133	E Ile 136	E Val 138	E Ile 147
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.521 CB
0.074	0.064	0.058	0.061	0.062	0.050
1.614	1.604	1.598	1.601	1.602	1.571
E Ile 171	E Val 182	E Val 193	E Ile 194	E Val 195	F Ala 5

## Distorted geometry pdb2fyu

#### Main-chain bond lengths (contd)

CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.052	0.086	0.070	0.092	0.100	0.072
1.592	1.626	1.610	1.632	1.640	1.612
F Val 6	F Ile 16	F Ile 37	F Ile 47	F Val 59	F Ile 62
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.052	0.053	0.065	0.054	0.097	0.059
1.592	1.592	1.605	1.594	1.637	1.599
F Ile 74	F Thr 81	G Val 10	G Ile 34	G Val 37	G Val 48
CA 1.540 CB	CA 1.540 CB	CA 1.525 C	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.060	0.060	0.052	0.067	0.066	0.068
1.600	1.600	1.577	1.607	1.606	1.608
G Val 53	G Val 58	G Asn 73	H Val 20	H Val 31	H Val 44
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.525 C	CA 1.540 CB	CA 1.525 C
0.052	0.069	0.055	0.051	0.073	0.051
1.592	1.609	1.595	1.576	1.613	1.576
H Thr 50	H Val 69	I Val 4	I Ala 17	I Val 22	I Arg 27
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.061	0.075	0.067	0.054	0.054	0.067
1.601	1.615	1.607	1.594	1.594	1.607
I Val 30	I Val 34	I Val 42	J Ile 24	J Val 26	J Ile 42
CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB	CA 1.540 CB
0.070	0.058	0.064	0.055	0.051	0.060
1.610	1.598	1.604	1.595	1.591	1.600
J Ile 46	K Val 18	K Val 27	K Val 30	K Val 33	K Ile 41
CA 1.540 CB	CA 1.540 CB $0.097$ 1 637				

Bonds differing by > 0.05A from small-molecule values. Values shown: "ideal", difference, actual



K Ile 48

Bond angles differing by > 10.0 degrees from small-molec values. Values shown: "ideal", actual, diff.

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K Val 45

Main-chain bond angles















Sidechains with RMS dist. from planarity > 0.03A for rings, or > 0.02A otherwise. Value shown is RMS dist.